

# MiniTool Partition Wizard User Guide

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### 1. Tool Bar, Legend Bar, Action Panel

By checking or un-checking Tool Bar, Legend Bar, and Action Panel under View, MiniTool Partition Wizard can show or hide these items. If the screen resolution of the computer is low, users can hide them to enlarge the area of Disk/Partition List.

✓ Tool Bar							Mini	
/							$\odot$	
Legend Bar     Action Panel	very	Partition Recovery Disk	Benchmark Space Anal	yzer			Bootable Media	Mar
-	<u> </u>	Partition	Capacity	Used	Unused	File System	Туре	
Change Font		📥 Disk 1 (VMwar	e, VMware Virtual S SAS	, MBR, 500.00 G	в)			
Co Language	+	*:System Reserve	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ry
j co,		C:	59.46 GB	34.66 GB	24.80 GB	NTFS	Prima	ry
onvert Disk	$\odot$	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Prima	ry
Copy Disk		E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logica	al
Convert MBR Disk to GPT [	)isk	I:	197.21 GB	119.64 MB	197.09 GB	NTFS	Logica	al
lean Disk	$\odot$	Disk 2 (VMwar	e, VMware Virtual S SAS	, MBR, 256.00 G	iB)			
Wipe Disk		G:	112.83 GB	68.35 MB	112.76 GB	NTES	Prima	irv
Delete All Partitions		H:	74.64 GB	97.29 MB	74.54 GB	NTFS	Prima	·
heck Disk	$\odot$	1:	68.53 GB	97.10 MB	68.44 GB	NTES	Prima	1
Align All Partitions			00.55 GB	57.10 MD	00.44 00	NIT 5		ii y
S Rebuild MBR		•						
Surface Test		Disk 1			1	1		
Partition Recovery		MBR Syste		(NTFS)	E:(NTFS)	I:(NTFS)		
Disk Properties		500.00 GB 549 1	4B (Use 59.5 GB (Use 10	18.4 GB (Used: 0	134.4 GB (Used	: 0%) 197.2 GE	8 (Used: 0%)	
🗟 Data Recovery		Disk 2						
Operations Pending		MBR G:(N 256.00 GB 112.8	FFS) 3 GB (Used: 0%)		H:(NTFS) 74.6 GB (Used:		I:(NTFS) 58.5 GB (Used: 0%)	

eneral View Disk Partition I	namic Disk Wizard Help	Mini Too
pply Undo Discard Data Reco	ry Partition Recovery Disk Benchmark Space Analyzer	Bootable Media Manu
Wizard 📀	Partition Capacity Used Unused File Syst	em Type
🕼 Migrate OS to SSD/HD Wizard	Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)	
Copy Partition Wizard	*:System Reserved 549.00 MB 374.37 MB 174.63 MB NT	FS Primary
Copy Disk Wizard	C: 59.46 GB 34.66 GB 24.80 GB NT	FS Primary
Change Partition 🔗	F: 108.43 GB 107.37 MB 108.33 GB NT	FS Primary
Move/Resize Partition	E: 134.35 GB 108.83 MB 134.25 GB NT	FS 🗖 Logical
Extend Partition	I: 197.21 GB 119.64 MB 197.09 GB NT	
다 Merge Partition 과 Split Partition	Disk 2 (VMware, VMware Virtual S SAS, MBR, 256.00 GB)	
Change Cluster Size	G: 112.83 GB 68.35 MB 112.76 GB NT	FS Primary
🗯 Convert NTFS to FAT	H: 74.64 GB 97.29 MB 74.54 GB NT	FS Primary
Action Panel Partition Management	J: 68.53 GB 97.10 MB 68.44 GB NT	FS Primary
Delete Partition		
Format Partition		
<ul> <li>Copy Partition</li> <li>Align Partition</li> </ul>		NTFS) 7.2 GB (Used: 0%)
Wipe Partition		)(
E]] Set Label	Disk 2 MBR G:(NTFS) 256.00 GB 112.8 GB (Used: 0%) 74.6 GB (Used: 0%)	J:(NTFS) 68.5 GB (Used: 0%)
🕲 Change Drive Letter		Досто ор (озсат о ло)

# 2. Disk Map Location

The location of disk map can be changed from the top to the bottom or from the bottom to the top, and users can complete these changes as the following screenshot shows:

• Tool Bar     • Legend Bar		very Partition Reco	very Disk Benchr	mark Space Analy	/zer			Bootable Media	Manu
Vizard Disk Map Locatio		-		Capacity	Used	Unused	File System	Туре	
A Mi Change Font		⊤op ✓ Bottom	1 (VMware, VMw	are Virtual S SAS,	MBR, 500.00 G	GB)			
Co Language	- • T	*:Syster	n Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ry
È co,		C:		59.46 GB	33.98 GB	25.48 GB	NTFS	Prima	ry
onvert Disk	$\odot$	F:		108.43 GB	107.37 MB	108.33 GB	NTFS	Prima	ry
Copy Disk		E:		134.35 GB	108.83 MB	134.25 GB	NTFS	Logica	al l
② Convert MBR Disk to GPT	Disk	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	Logica	al
lean Disk	$\odot$	I:		138.36 GB	108.30 MB	138.25 GB	NTFS	Logica	al
🖉 Wipe Disk		- Disk	2 (VMware, VMw	are Virtual S SAS,	MBR, 256.00 0	GB)			
Delete All Partitions		G:		67.74 GB	97.12 MB	67.65 GB	NTFS	Prima	ry
heck Disk	$\odot$	H:		106.25 GB	107.32 MB	106.14 GB	NTFS	Prima	ry
Align All Partitions		К:		82.00 GB	97.54 MB	81.90 GB	NTFS	Logica	·
ම් Rebuild MBR		•		02100 05	571011110	010000			
ふ Surface Test		Disk 1				1			
Partition Recovery		MBR 500.00	System Res		(NTFS)	E:(NTFS)	J:(FAT32)	I:(NTFS)	
Disk Properties		500.00	243 MR (OS	59.5 GB (Usi 10	8.4 GB (USEC: U	134.4 GB (USE	u: u%) 58.8 GB (U	ISI 138.4 GB (Used	: 0%)
🗟 Data Recovery		Disk 2							
Operations Pending		MBR 256.00	G:(NTFS) GB 67.7 GB (Use		:(NTFS) 06.2 GB (Used:	0%)	K:(NTF	S) 3 (Used: 0%)	

If users check **Top** instead of Bottom, the disk map will show as below:

eneral View Disk Partition	Dynamic	c Disk Wizard Help					Mini Too
		artition Recovery Disk Be	nchmark Space Ana	vzer			Bootable Media Man
	• _			1201			
Migrate OS to SSD/HD Wizar			Resi C:(NTFS) F: (Use 59.5 GB (Usi 10	(NTFS) )8.4 GB (Used: (	E:(NTFS) 134.4 GB (Us	ed: 0%) I:(NTFS 197.2 G	) B (Used: 0%)
<ul><li>Copy Partition Wizard</li><li>Copy Disk Wizard</li></ul>		Disk 2 MBR G:(NTFS 256.00 GB 11 1 GB			H:(NTF		J:(NTFS) 68.5 GB (Used: 0%)
Change Partition		250.00 GB [11.1 GB	(Usi 101.7 GB (Used:	0%)	<u></u> /4.0 G	8 (Used: 0%)	[08.5 GB (Used: 0%)
Move/Resize Partition		Partition	Capacity	Used	Unused	File System	Туре
Extend Partition		w Disk 1 (VMware, V	/Mware Virtual S SAS	, MBR, 500.00 G	GB)		
S Merge Partition		*:System Reserved	549.00 MB	374.62 MB	174.38 MB	NTFS	Primana
□ Split Partition		,					Primary
Change Cluster Size		C:	59.46 GB	34.29 GB	25.17 GB	NTFS	Primary
Convert NTFS to FAT		F:	108.43 GB	107.87 MB	108.33 GB	NTFS	Primary
Partition Management (	•	E:	134.35 GB	109.33 MB	134.25 GB	NTFS	Logical
In Delete Partition	-	I:	197.21 GB	119.64 MB	197.09 GB	NTFS	Logical
Format Partition		www.com Disk 2 (VMware, V	/Mware Virtual S SAS	, MBR, 256.00 0	GB)		
Copy Partition		G:	11.10 GB	87.82 MB	11.01 GB	NTFS	Primary
昌 Align Partition		к:	101.73 GB	107.66 MB	101.63 GB	NTES	Logical
∠ Wipe Partition							-
E] Set Label	_	H:	74.64 GB	97.81 MB	74.54 GB	NTFS	Primary
Letter	~ 4	J:	68.53 GB	97.62 MB	68.44 GB	NTFS	Primary

On the contrary, if users choose **Bottom** for disk map location, the disk map will show as below:

eneral View Disk	Partition Dyr	namic Disk Wizard Help					Mini Too
pply Undo Discard	Data Recover	ry Partition Recovery Disk Bench	mark Space Analy	zer			Bootable Media Man
Wizard	Ô	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/	HD Wizard	🛶 Disk 1 (VMware, VMw	vare Virtual S SAS,	MBR, 500.00 G	B)		
Copy Partition Wiza	rd	*:System Reserved	549.00 MB	374.62 MB	174.38 MB	NTFS	Primary
🛱 Copy Disk Wizard		C:	59.46 GB	34.14 GB	25.32 GB	NTFS	Primary
Convert Disk	$\odot$	F:	108.43 GB	107.87 MB	108.33 GB	NTFS	Primary
Copy Disk		E:	134.35 GB	109.33 MB	134.25 GB	NTFS	Logical
Convert MBR Disk to	GPT Disk	I:	197.21 GB	119.64 MB	197.09 GB	NTFS	Logical
Clean Disk	$\odot$	Sisk 2 (VMware, VMw	vare Virtual S SAS,	MBR, 256.00 G	GB)		
✓ Wipe Disk		G:	11.10 GB	87.82 MB	11.01 GB	NTFS	Primary
Delete All Partitions		к:	101.73 GB	107.14 MB	101.63 GB	NTFS	Primary
Check Disk	$\odot$	H:	74.64 GB	97.81 MB	74.54 GB	NTFS	Primary
Align All Partitions		J:New Volume	68.53 GB	96.96 MB	68.44 GB	NTFS	Primary
Surface Test  Partition Recovery  Side Dependence		Disk 1 MBR 500.00 GB System Rest 549 MB (Use	C:(NTFS) 59.5 GB (Usi 108	NTFS) 8.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used	: 0%) I:(NTFS) 197.2 GB	(Used: 0%)
<ul> <li>Disk Properties</li> <li>Data Recovery</li> <li>Operations Pending</li> </ul>		Disk 2 MBR 256.00 GB 11.1 GB (Use	K:(NTFS) 101.7 GB (Used:	0%)	H:(NTFS) 74.6 GB (I	Used: 0%)	J:New Volume(NTFS) 68.5 GB (Used: 0%)

# 3. Change Font

#### 3.1 About Change Font

**Change Font** is under the **View** menu at the top of the software interface, allowing user to change font and font size freely. All available font types are those provided by OS.

### 3.2 How to Change Font

Step 1. Launch MiniTool Partition Wizard to enter the main interface as follows. Click the item **View** on the top and choose **Change Font**.

eneral View Disk Partitio	on [	Dynamic Disk Wizard	Help					Mini Too
Tool Bar     Legend Bar		very Partition Recovery	Disk Benchmark	5pace Analyz	er Data Backu	ıp	Bootable Media	Manual Regist
Wizard Disk Map Location	•	Partition	Capa	acity	Used	Unused Fi	le System	Туре
Change Font	ŕ	🥌 Disk 1 (VI	Iware, VMware Vir	tual S SAS, N	1BR, 500.00 GE	3)		
Co Language	•	*:System Res	erved 54	49.00 MB	374.37 MB	174.63 MB	NTFS	Primary
€ co,,		C:		59.46 GB	33.98 GB	25.48 GB	NTFS	Primary
Change Partition	$\odot$	F:	1	08.43 GB	107.37 MB	108.33 GB	NTFS	Primary
Move/Resize Partition		E:	1	34.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Extend Partition		J:		58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
S Merge Partition		I:	1	38.36 GB	108.30 MB	138.25 GB	NTFS	Logical
C Split Partition		🛶 Disk 2 (VI	Iware, VMware Vir	tual S SAS, N	1BR, 256.00 GE	3)		
Change Cluster Size		G:		67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
n.e	0	H:	1	06.25 GB	107.32 MB	106.14 GB	NTFS	Primary
Partition Management	$\odot$	К:		82.00 GB	97.54 MB	81.90 GB	NTFS	Logical
Delete Partition		•						5
Format Partition		Disk 1						
Copy Partition			System Res C:(NT		TFS) 4 GB (Used: (	E:(NTFS) 134.4 GB (Used: 0%)		TFS) 4 GB (Used: 0%)
☑ Align Partition ✓ Wipe Partition				(00-)(100.				
E) Set Label		Disk 2		L.,/	NTEC)		K:(NTFS)	
Change Drive Letter			G:(NTFS) 57.7 GB (Used: 0%)		NTFS) 5.2 GB (Used: (	)%)	82.0 GB (Used:	0%)

Step 2. A pop-up window will show up as follows. Here users can change Font, Font Style and Size, and then view the effect in the lower-right side Sample box. Click OK to continue.

eneral View Disk	Partition Dy	namic Disk Wizard	Help					Mini	Τοο
pply Undo Discard	Data Recove	ry Partition Recovery	Disk Benchmark S	pace Analyzer				Bootable Media	Manu
Wizard	$\odot$	Partition	Capac	ity Use	d Unus	ed	File Syster	m Type	
Migrate OS to SSD/		🯄 Select Font				×			
Copy Partition Wizar	rd	Font Bahnschrift		Font style	S	ize D	NTES	) ; <b>D</b> P	rimary
Copy Disk Wizard		Arial	A	Normal	6		NTFS	; 🗖 P	rimary
Convert Disk	$\odot$	Arial Black Bahnschrift		Italic	8		NTFS	; 🗖 P	rimary
Copy Disk		Bahnschrift Light Bahnschrift SemiBe	bld	Bold Italic	9		NTFS	3 🗖 L	ogical
Convert MBR Disk to	GPT Disk	Bahnschrift SemiLi Calibri	ght		1		FAT32	2 🗖 L	ogical
Clean Disk	$\odot$	Calibri Light Cambria			1	4	NTFS	3 🗖 L	ogical
🖉 Wipe Disk		Effects		Sample	L.				
Delete All Partitions		Strikeout		Sample			NTES		rimarv
Check Disk	$\odot$	Underline			AaBbYyZz		NTES		rimary
Align All Partitions		Writing System					NTES		
C Rebuild MBR		Any	•				MIES		ogical
Surface Test					OK	Cancel	1	1	
Partition Recovery		MBR	System Res C:(NTF		E:(NT		J:(FAT32		
Disk Properties		500.00 GB	549 MB (Us 59.5 G	B (Us 108.4 GB (	Used: 134.4	GB (Used: (	)%) 58.8 GB	(Us] 138.4 GB (Us	sed: 0%
📾 Data Recovery		Disk 2							
0 Operations Pending		MBR 256.00 GB	G:(NTFS) 67.7 GB (Used: 0%)	H:(NTFS) 106.2 GB	(Used: 0%)		K:(N 82.0	TFS) GB (Used: 0%)	

Step 3. The software will exist and then run automatically. At last, users will see the main interface with font changed.

neral View Disk	Partition Dy	ynamic Disk Wizar	d Help					Mini	Тоо
/									
ply Undo Discard	Data Recover	y Partition Recovery	Disk Benchma					Bootable Media	Manu
Wizard	$\odot$	Partition		Capacity	Used	Unused	File System	Туре	
📓 Migrate OS to SSD/H	D Wizard	📥 Disk 1 (V)	lware, VMwar	e Virtual S SAS, 1	MBR, 500.00 GB)				
🕒 Copy Partition Wizard	ł	*:System Re	served	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary	,
📋 Copy Disk Wizard		C:		59.46 GB	33.98 GB	25.48 GB	NTFS	Primary	
Convert Disk	$\odot$	E		108.43 GB	107.37 MB	108.33 GB	NTFS	Primary	
🛱 Copy Disk		E:		134.35 GB	108.83 MB	134.25 GB	NTFS	Logical	
Convert MBR Disk to	GPT Disk	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	Logical	
Clean Disk	$\odot$	Ŀ		138.36 GB	108.30 MB	138.25 GB	NTFS	Logical	
🖉 Wipe Disk		Disk 2 (V	Mware VMwar	e Virtual S SAS,	MBR 254 00 GB)				
Delete All Partitions									
Check Disk	۲	G:		67.74 GB	97.12 MB	67.65 GB	NTFS	Primary	
品 Align All Partitions	0	H:		106.25 GB	107.32 MB	106.14 GB	NTFS	Primary	
C Rebuild MBR		K:		82.00 GB	97.54 MB	81.90 GB	NTFS	Logical	
Surface Test									
Partition Recovery		Disk 1 MBR	System Rese	C:(NTES)	:(NTFS)	E:(NTFS)	J:(FAT32)	I:(NTFS)	
Disk Properties		500.00 GB				134.4 GB (Use		138.4 GB (Used: (	)%)
🖂 Data Recovery		Disk 2		)					
Operations Pending		MBR 256.00 GB	G:(NTFS) 67.7 GB (Used	d: 0%)	H:(NTFS) 106.2 GB (Used:	0%)	K:(NTFS) 82.0 GB (	) (Used: 0%)	

### 4. Main Window

MiniTool Partition Wizard has a user-friendly main window, which is composed of six parts:

1. Menu Bar: General, View, Disk, Partition, Dynamic Disk, Wizard and Help are included here.

2. Tool Bar: some of the common functions are listed here.

**3.** Action Panel: Wizards and Partition Operations (or Disk Operations) are included. It also shows the pending operations that haven't been carried out yet.

**4. Disk/Partition/Volume List**: shows all the disks and partitions in computer as well as the detailed information about them. All the following data are included:

- Drive letter and partition label (If a partition has no drive letter, \* will be showed);
- Total capacity of partition;
- Used space in the partition;
- Unused space in the partition;
- Type of file system;

- Type of partition;
- Status of partition (Active means the partition is an active main partition; Boot means the system boots from this partition; System means this partition is where Windows is located; and Hidden means the partition is a hidden partition).

5. Disk Map: it gives users an intuitive preview of the partitions and unallocated space on disk.

6. Legend Bar: different kinds of legends are displayed here with various colors and corresponding explanations.

🟂 MiniTool Partition Wizard	d Pro 11						-	o x
General View Disk P	Partition Dy	namic Disk Wizard Help	N	1enu Bar			Mini 1	00/
Apply Undo Discard	Data Recover	ry Partition Recovery Disk Ber	nchmark Space Analyz		Tool Bar		Bootable Media	Contraction (Manual
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/H	D Wizard	📥 Disk 1 (VMware, V	Mware Virtual S SAS,	MBR, 500.00 G				
Copy Partition Wizard	t I	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary	у
Copy Disk Wizard		C:	59.46 GB	33.98 GB	25.48 GB	NTFS	Primary	y
Convert Disk	$\odot$	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary	y
Copy Disk		E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical	
Convert MBR Disk to	GPT Disk	J:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical	
Clean Disk	$\odot$	I:	138.36 GB	108.30 MB	138.25 GB	NTFS	Logical	
		🧼 Disk 2 (VMware, V	Mware Virtual S SAS,	MBR, 256.00 G	B) Disk/Pa	artition/Volu	ıme List	
Delete All Partitions		G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary	y
Check Disk Action Pa	inel 📀	H:	106.25 GB	107.32 MB	106.14 GB	NTFS	Primary	y
Align All Partitions		к:	82.00 GB	97.54 MB	81.90 GB	NTFS	Logical	
Rebuild MBR		•						•
Surface Test  Partition Recovery  Disk Properties		Disk 1 MBR 500.00 GB System F 549 MB (	Resi C:(NTFS) F:(I Use 59.5 GB (Usi 108	NTFS) 3.4 GB (Used: C	E:(NTFS) 134.4 GB (Used: 0%	J:(FAT32) 6) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used:	0%)
Data Recovery      Operations Pending		Disk 2 MBR 256.00 GB G:(NTFS 67.7 GB		:(NTFS) 06.2 GB (Used:	Disk Map	C K:(NTFS 82.0 GB	) (Used: 0%)	
🗖 GPT/Primary 🔲 Logic	cal 🔲 Simpl	le 🔲 Spanned 🔲 Striped	🔲 Mirrored 🛛 🔲 RAI	D5 🔲 Unallo	cated Lenger	nd Bar	•	<b>9 8</b>

After selecting a partition or disk in **Disk/Partition/Volume List**, users can carry out any of the functions listed in top **Partition** menu or **Disk** (**Dynamic Disk**) menu, **Tool Bar**, **Action Panel** or the context menu appeared after right click of mouse.

#### 5. Disk & Partition

After starting the MiniTool Partition Wizard, users can select the <u>disk</u> or <u>partition</u> they want to manage directly from the **Disk/Partition/Volume List**.

eneral View Disk Pi	artition Dyna	mic Disk Wizard Help					Mini Too
pply Undo Discard	Data Recover	ry Partition Recovery Disk Bo	enchmark Space Ana	alyzer Data Ba	ckup	Bootable Media	Manual Regist
Wizard		Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HE	) Wizard	🛶 Disk 1 (VMware, VM	/ware Virtual S SAS,	MBR, 500.00 G	в)		
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard		C:	59.46 GB	14.18 GB	45.28 GB	NTFS	Primary
Convert Disk	$\odot$	*:	108.43 GB	107.34 MB	108.33 GB	NTFS	Primary
Copy Disk		E:	134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
Convert MBR Disk to G	GPT Disk	F:	197.21 GB	119.12 MB	197.09 GB	NTFS	Logical
Clean Disk	$\odot$	🛶 Disk 2 (VMware, VM	Mware Virtual S SAS,	MBR, 256.00 G	B) Disk/Parti	tion/Volume	List
🖉 Wipe Disk		G:	112.83 GB	107.48 MB	112.72 GB	NTFS	Primary
Delete All Partitions		H:	74.64 GB	97.29 MB	74.54 GB	NTES	Primary
Check Disk	$\odot$	I:	68.53 GB	97.10 MB	68.44 GB	NTES	Primary
邑 Align All Partitions		1.	00.00 00	57110 110	00.11 05	in s	
Rebuild MBR							
Surface Test							
🔒 Partition Recovery		Disk 1 MBR System R	es C:(NTFS) (NT	FS)	E:(NTFS)	F:(NTFS)	
Disk Properties		- Of Occimite	Jse 59.5 GB (Usi 108				: 0%)
Data Recovery		Disk 2					
0 Operations Pending		MBR G:(NTFS)	(Used: 0%)		H:(NTFS) 74.6 GB (Used: 09	6) I:(NTFS 68.5 GB	) (Used: 0%)

#### **Attention:**

- MiniTool Partition Wizard Free Edition does not support the management of volume and dynamic disks. It only supports basic disks of MBR style and GPT style.
- MiniTool Partition Wizard support removable disks well like USB or external disks.

# 6. Select an Operation

Users can right click on a partition or disk to manage it. They can also select one function from the top **Partition** menu or **Disk (Dynamic Disk)** menu after selecting the partition or disk. The most direct way to manage a partition or disk is to choose function from **Action Panel** after selecting the partition or disk.

eneral View Disk Partition E	ynamic Disk Wizard Help					Mini Too
pply Undo Discard Data Reco	very Partition Recovery Disk Benc		zer		E	Bootable Media Man
Wizard 📀	<ul> <li>Partition</li> </ul>	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	🛶 Disk 1 (VMware, VM	lware Virtual S SAS,	MBR, 500.00 G	SB)		
Copy Partition Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard	C:	59.46 GB	34.81 GB	24.65 GB	NTFS	Primary
Change Partition	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
Move/Resize Partition	E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Extend Partition	J:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
Merge Partition	I:	138.36 GB	108.30 MB	138.25 GB	NTFS	Logical
Change Cluster Size	🛶 Disk 2 (VMware, VM	lware Virtual S SAS,	MBR, 256.00 G	SB)		5
Convert NTFS to FAT	G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
Action Panel Partition Management	H:	106.25 GB	107.32 MB	106.14 GB	NTFS	Primary
Delete Partition	К:	82.00 GB	97.54 MB	81.90 GB	NTFS	Logical
Format Partition	•					
Copy Partition	Disk 1 MBR System Re	s C:(NTFS) F:(I	NTFS)	E:(NTFS)	J:(FAT32)	I:(NTFS)
邑 Align Partition		se 59.5 GB (Usi 108				138.4 GB (Used: 0%)
	Disk 2					
E]) Set Label	MBR G:(NTFS)		(NTFS)	00(1)	K:(NTFS	
🖷 Change Drive Letter	256.00 GB 67.7 GB (U	sed: 0%) / 10	)6.2 GB (Used:	0%)	82.0 GB	(Used: 0%)

What users should pay attention to is that the partition operations are effective only when a partition is chosen.

Similarly, if users choose a disk, only disk operations will appear in Action Panel.

General View Disk	Partition Dy	mamic Disk Wizard	Help					Mini	Τοοί
Apply Undo Discard	Data Recove	ery Partition Recovery	Disk Benchr	nark Space Analy	yzer		E	cootable Media	Manua
Wizard	$\odot$	Partition		Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/I	HD Wizard	🛶 Disk 1 (\	'Mware, VMw	are Virtual S SAS,	, MBR, 500.00 G	B)			
lopy Partition Wizar	ď	*:System Re	served	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ry
Copy Disk Wizard		C:		59.46 GB	34.81 GB	24.65 GB	NTFS	Prima	.ry
Convert Disk	$\odot$	F:		108.43 GB	107.37 MB	108.33 GB	NTFS	Prima	ry
Copy Disk		E:		134.35 GB	108.83 MB	134.25 GB	NTFS	🗖 Logica	al
Convert MBR Disk to	GPT Disk	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	Logica	al
Clean Disk	$\odot$	I:		138.36 GB	108.30 MB	138.25 GB	NTFS	Logica	al
🖉 Wipe Disk		🥌 Disk 2 (\	'Mware, VMw	are Virtual S SAS,	, MBR, 256.00 G	B)			
Delete All Partitions		G:		67.74 GB	97.12 MB	67.65 GB	NTFS	Prima	iry
Check Disk	$\odot$	H:		106.25 GB	107.32 MB	106.14 GB	NTFS	Prima	iry
Align All Partitions		к:		82.00 GB	97.54 MB	81.90 GB	NTFS	Logica	al
Rebuild MBR		•							
Surface Test  Partition Recovery  Disk Properties		Disk 1 MBR 500.00 GB	System Res 549 MB (Use		(NTFS) 8.4 GB (Used: C	E:(NTFS) 134.4 GB (Used:	J:(FAT32) 0%) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used	: 0%)
Data Recovery  O Operations Pending		Disk 2 MBR 256.00 GB	G:(NTFS) 67.7 GB (Use		I:(NTFS) 06.2 GB (Used:	0%)	K:(NTFS 82.0 GB	) (Used: 0%)	

Most of the time, users need to click on **Apply** button in **Tool Bar** to complete management in MiniTool Partition Wizard

# 7. Apply Changes

Most of the time, MiniTool Partition Wizard will not perform any change unless users make sure to **Apply Changes**, and all changes will be listed in Operations Pending area, which provides users with a chance to check whether there are operations damaging data.

neral View Disk Partition Dyn	amic Disk Wizard Help					Mini Too
< < < <						
ply Undo Discard Data Recover	y Partition Recovery Disk Benchm	ark Space Analy	zer		Bo	ootable Media Mar
Partition Management 🛛 🔗 🇴	Partition	Capacity	Used	Unused	File System	Туре
Delete Partition	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
S. Format Partition	C:	59.46 GB	34.65 GB	24.81 GB	NTFS	Primary
Copy Partition	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
邑 Align Partition	E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Wipe Partition	J:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
⊑]) Set Label	I:	138.36 GB	108.30 MB	138.25 GB	NTFS	Logical
追 Change Drive Letter	Disk 2 (VMware, VMwa	are Virtual S SAS	MBR 256.00.0	B)		
Change Partition Type ID			-			
Change Serial Number	G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
Hide Partition	Н:	53.22 GB	107.32 MB	53.12 GB	NTFS	Primary
☆ Set Active	к:	53.03 GB	66.06 MB	52.96 GB	NTFS	Logical
Check Partition	*:	82.01 GB	0 B	82.01 GB	Unallocated	Logical
Surface Test	•					
Partition Properties	Disk 1					
🗟 Data Recovery		C:(NTFS) F:(1 59.5 GB (Us) 108	NTFS) 8.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used:	0%) J:(FAT32) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used: 0%)
Operations Pending	Disk 2					
<ul> <li>1. Delete: (K: (Disk 2 Partition</li> <li>2. Split Partition: H: (Disk 2 P</li> </ul>	MBR 256.00 GB 67.7 GB (Used		:(NTFS) 3.2 GB (Used: 0	K:(NTFS) 53.0 GB (Us	(Unallocat 82.0 GB	ted)

To apply pending operations, users have 3 choices:

1. Click on the functional button **Apply** in the upper left corner.

$\stackrel{\text{neral}}{\longleftarrow} \times \stackrel{\text{Disk}}{\longleftarrow} \times$	namic Disk Wizard Help					
	ry Partition Recovery Disk Benchm					ootable Media Ma
Partition Management 📀	Partition	Capacity	Used	Unused	File System	Туре
Delete Partition	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Format Partition	C:	59.46 GB	34.65 GB	24.81 GB	NTFS	Primary
Copy Partition	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
을 Align Partition	E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
	]:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
E]) Set Label	I:	138.36 GB	108.30 MB	138.25 GB	NTFS	Logical
Change Drive Letter	🛶 Disk 2 (VMware, VMwa	are Virtual C CAC	MPP 256 00 C	D)		_
Change Partition Type ID	USK Z (VMWdre, VMWd	ire virtual 5 SAS,	MDR, 200.00 G	0)		
Change Serial Number	G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
Hide Partition	H:	53.22 GB	107.32 MB	53.12 GB	NTFS	Primary
☆ Set Active	К:	53.03 GB	66.06 MB	52.96 GB	NTFS	Logical
Check Partition	*:	82.01 GB	0 B	82.01 GB	Unallocated	Logical
Surface Test	•					
Partition Properties	Disk 1					
📾 Data Recovery	MBR 500.00 GB System Resi 549 MB (Use	C:(NTFS) F:(1 59.5 GB (Us) 108	NTFS) 3.4 GB (Used: C	E:(NTFS) 134.4 GB (Used	: 0%) J:(FAT32) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used: 0%
3 Operations Pending	Disk 2					
<ul> <li>1. Delete: (K: (Disk 2 Partition</li> <li>2. Split Partition: H: (Disk 2 P</li> </ul>	MBR 256.00 GB 67.7 GB (Used		:(NTFS) 3.2 GB (Used: 0	K:(NTFS) 53.0 GB (U	sed: 0%) (Unalloca 82.0 GB	ted)

2. Choose Apply Changes from the drop-down menu of General menu.

eneral View Disk Partition [	Dynamic Disk Wizar	d Help					Mini	Тоо
Reload Disk F5							$\odot$	
✓ Apply Changes Ctrl+A	very Partition Recove	Luuuu					Bootable Media	Manı
Undo Last Changes Ctrl+Z	•	ry Disk Benchn	-	-				Man
Discard All Changes Ctrl+D	Partition		Capacity	Used	Unused	File System	Туре	
) Exit	*:System R	leserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ary
_	C:		59.46 GB	34.65 GB	24.81 GB	NTFS	Prima	ary
Copy Partition	F:		108.43 GB	107.37 MB	108.33 GB	NTFS	Prima	ary
Align Partition	E:		134.35 GB	108.83 MB	134.25 GB	NTFS	Logic	al
Wipe Partition	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	Logic	al
E]] Set Label	I:		138.36 GB	108.30 MB	138.25 GB	NTFS	Logic	al
🖷 Change Drive Letter	Disk 2	WMware VMwa	are Virtual S SAS,	MBR 256.00.0	EB)			
Change Partition Type ID					-			
Change Serial Number	G:		67.74 GB	97.12 MB	67.65 GB	NTFS	Prima	
~ㅠ< Hide Partition	н:		53.22 GB	107.32 MB	53.12 GB	NTFS	🗖 Prima	ary
☆ Set Active	к:		53.03 GB	66.06 MB	52.96 GB	NTFS	Logic	al
Check Partition	*:		82.01 GB	0 B	82.01 GB	Unallocated	Logic	al
Surface Test	•							
_	Disk 1							
Partition Properties	MBR 500.00 GB		C:(NTFS) F: 59.5 GB (Usi 10	(NTFS) 8.4 GB (Used: (	E:(NTFS) 134.4 GB (Use	d: 0%) J:(FAT32) 58.8 GB (U	I:(NTFS) Ise 138.4 GB (Used	d: 0%)
<ul> <li>Partition Properties</li> <li>Data Recovery</li> </ul>						 		
	Disk 2					(Unallo	cated)	

3. Make use of the combination keys Ctrl + A.

Moreover, sometimes users will be asked to restart the computer after they apply all changes. That is because they are operating the device which is being used. Just do as told and MiniTool Partition Wizard will perform all unfinished operations in safe boot mode. After all operations are completed, the computer will start normally.

### 8. Discard All Changes

With this feature, users can discard all previous changes to disks and partitions in one go rather than cancel the last one. Users can activate this feature via the following 3 ways:

1. Choose **Discard** button at the top directly.

neral View Disk Partition Dynar	nic Disk Wizard Help					Mini Too
	شس <u>ن</u> رئیس					
ply Undo Discard Data Recovery	Partition Recovery Disk Benchm	ark Space Analy	zer		E	Bootable Media Mar
Partition Management 💿 🔶	Partition	Capacity	Used	Unused	File System	Туре
Delete Partition	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Format Partition	C:	59.46 GB	34.65 GB	24.81 GB	NTFS	Primary
Copy Partition	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
을 Align Partition	E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Wipe Partition	]:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
E]) Set Label	I:	138,36 GB	108.30 MB	138.25 GB	NTFS	Logical
Change Drive Letter						
Change Partition Type ID	Disk 2 (VMware, VMware, VMwa	ire virtual S SAS,	MBR, 256.00 G	в)		
Change Serial Number	G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
Hide Partition	H:	106.25 GB	107.32 MB	106.14 GB	NTFS	Primary
☆ Set Active	к:	45.08 GB	65.81 MB	45.02 GB	NTFS	Primary
Check Partition	*:	36.92 GB	0 B	36.92 GB	Unallocated	Logical
Surface Test	•					
Partition Properties	Disk 1			1		)
🗟 Data Recovery			NTFS) 8.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used: 0%	J:(FAT32) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used: 0%)
2 Operations Pending						
<ul> <li>1. Delete: (K: (Disk 2 Partition</li> <li>2. Create (K:) on Disk 2</li> </ul>	Disk 2 MBR G:(NTFS) 256.00 GB 67.7 GB (User		:(NTFS) D6.2 GB (Used:	0%)	K:(NTFS 45.1 GB	) (Used: 09 36.9 GB

2. Select Discard All Changes from the drop-down list of General item.

General View Disk	Partition	Dynamic Dis	k Wizard	Help					Mini	Tool
🖳 Reload Disk	F5				<u>/</u>				$\odot$	
✓ Apply Changes	Ctrl+A		<u></u>			<u> </u>				
← Undo Last Changes	Ctrl+Z			Disk Benchn	nark Space Ar	·			Bootable Media	Manua
X Discard All Changes	Ctrl+D	Pa	rtition		Capacity	Used	Unused	File System	Туре	
) Exit			*:System Re	served	549.00 M	3 374.37 MB	174.63 MB	NTFS	Prima	ary
			C:		59.46 G	34.65 GB	24.81 GB	NTFS	Prima	ary
Copy Partition			F:		108.43 G	3 107.37 MB	108.33 GB	NTFS	Prima	ary
Align Partition			E:		134.35 G	3 108.83 MB	134.25 GB	NTFS	Logic	al
			1:		58.85 G	941.76 MB	57.93 GB	FAT32	Logic	al
E]) Set Label			:		138.36 G	3 108.30 MB	138.25 GB	NTFS	Logic	al
Change Drive Lette Change Partition T		-	<b>Disk 2 (</b> \	/Mware, VMwa	are Virtual S S	AS, MBR, 256.00	GB)			
IIII Change Serial Num	nber		G:		67.74 G	97.12 MB	67.65 GB	NTFS	Prima	ary
누~ Hide Partition			4:		106.25 G	3 107.32 MB	106.14 GB	NTFS	Prima	ary
☆ Set Active			<:		45.08 G	65.81 MB	45.02 GB	NTFS	🗖 Prima	ary
Check Partition	$\odot$		*:		36.92 G	3 O B	36.92 GB	Unallocated	Logic	al
🖂 Surface Test		•								•
<ul> <li>Partition Properties</li> <li>Data Recovery</li> </ul>			<b>Disk 1</b> MBR 500.00 GB	System Res 549 MB (Use		F:(NTFS) 108.4 GB (Used:	E:(NTFS) 0 134.4 GB (Use	ed: 0%)	I:(NTFS) Jsv 138.4 GB (Used	1: 0%)
2 Operations Pending 1. Delete: (K: ( Disk 2. Create (K:) on Dis	2 Partition	•	Disk 2 MBR 256.00 GB	G:(NTFS) 67.7 GB (Use	d: 0%)	H:(NTFS) 106.2 GB (Used	: 0%)	K:(NTF 45.1 G	-S) B (Used: 04 36.9 C	ocated) SB

3. Make use of shortcut keys Ctrl + D.

### 9. Exit

To exit from MiniTool Partition Wizard, users have 2 choices. One is to choose **Exit** from the drop-down list of **General** item, and the other is to click on the close button at the top-right corner of the window.

Reload Disk F5	1						
<ul> <li>Apply Changes Ctrl+A</li> </ul>		<b>.</b>					
	DV4	ery Partition Recovery Disk Bencl	nmark Space Analy	zer		E	lootable Media Man
Undo Last Changes Ctrl+Z		Partition	Capacity	Used	Unused	File System	Туре
Characteristic Characteristics Control Cont		Disk 1 (VMware, VM	waro Virtual C CAC	MPR 500.00 C	<u>ر</u> م:		
) Exit							
Copy Disk Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
ELI Copy Disk Wizard		C:	59.46 GB	34.81 GB	24.65 GB	NTFS	Primary
Change Partition	$\odot$	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
Move/Resize Partition		E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Extend Partition		J:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical
Merge Partition		I:	138.36 GB	108.30 MB	138.25 GB	NTFS	Logical
⊐∣⊑ Split Partition		Disk 2 (VMware, VM	uaro Virtual C CAC	MPP 256 00 0	וסי		
Change Cluster Size			ware virtual 5 SAS,	MBR, 230.00 G	)		
Convert NTFS to FAT		G:	67.74 GB	97.12 MB	67.65 GB	NTFS	Primary
Partition Management	$\bigcirc$	H:	106.25 GB	107.32 MB	106.14 GB	NTFS	Primary
Delete Partition	Ŭ	К:	82.00 GB	97.54 MB	81.90 GB	NTFS	Logical
Format Partition		•					
Copy Partition		Disk 1			E (11750)		
昌 Align Partition			SI C:(NTFS) F:( E 59.5 GB (USI 10)	NTFS) 3.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used:	1:(FAT32) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used: 0%
∠ Wipe Partition							
E] Set Label		Disk 2 MBR G:(NTFS)	н	(NTFS)		K:(NTFS)	)
् पिहा Change Drive Letter		256.00 GB 67.7 GB (Us		06.2 GB (Used:	0%)		, (Used: 0%)

# 10. Reload Disk

If users have made changes on disks or partitions but MiniTool Partition Wizard does not detect such changes, they can manually reload disk and partition information via the **Reload Disk** feature, which is located under the **General** tab.

🖄 MiniTool Partition Wizard Pro	) 11						- <b>□</b> >
General View Disk Partiti	ion Dynar	nic Disk Wizard Help					Mini Tool
Reload Disk F5						٢	
✓ Apply Changes Ctrl+A	[ <sup>2</sup> ]	y Partition Recovery Disk Benc	-	lyzer Data Ba	ckup	Bootable Media	Manual Registe
← Undo Last Changes Ctrl+Z	•	Partition	Capacity	Used	Unused F	ile System	Туре
X Discard All Changes Ctrl+D		w Disk 1 (VMware, VMwa	are Virtual S SAS,	MBR, 500.00 G	в)		
🕛 Exit		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard		с:	59.46 GB	14.18 GB	45.28 GB	NTFS	Primary
Convert Disk	$\bigcirc$	*:	108.43 GB	107.34 MB	108.33 GB	NTFS	Primary
Copy Disk		E:	134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
Convert MBR Disk to GPT	Disk	F:	197.21 GB	119.12 MB	197.09 GB	NTFS	Logical
Clean Disk	$\odot$	🛶 Disk 2 (VMware, VMwa	are Virtual S SAS,	MBR, 256.00 G	В)		
		G:	112.83 GB	107.48 MB	112.72 GB	NTFS	Primary
Delete All Partitions		H:	74.64 GB	97.29 MB	74.54 GB	NTFS	Primary
Check Disk	$\bigcirc$	I:	68.53 GB	97.10 MB	68.44 GB	NTFS	Primary
음 Align All Partitions							,
Rebuild MBR							
		·			V	V	
Partition Recovery     Disk Properties					E:(NTFS) 134.4 GB (Used: 0%)	F:(NTFS) ) 197.2 GB (Used	. 0%)
Data Recovery					<u></u>	<u>, 1</u> 25772 00 (0304	,
0 Operations Pending	Ţ	Disk 2 MBR 256.00 GB G:(NTFS) 112.8 GB (Us	ed: 0%)		H:(NTFS) 74.6 GB (Used: 0%)	I:(NTFS 68.5 GB	) (Used: 0%)
GPT/Primary Logical	Simple	Spanned 🔲 Striped 🔲	Mirrored 🔲 RAI	D5 🔲 Unallo	cated		(† ¥ 8

### 11. Undo Last Changes

With **Undo** feature, users can cancel the last operation to a partition or disk without having any influence on data, and it can be activated via the following 3 ways:

1. Choose **Undo** button directly from the toolbar.

ieneral	View	Disk Pa	artition Dyna	mic Disk Wizard Help					Mini Tool
✓ Apply	€ Undo	X	Data Recove	ery Partition Recovery Dis		alvzer Data Ri	<b>O</b> ackup	Bootable Media	Manual Register
лрыу	UNUU	Discaru							
Wizaro	d		$\overline{\mathbf{O}}$	Partition	Capacity	Used	Unused	File System	Туре
[2] M	igrate OS	5 to SSD/HD	Wizard	Disk 1 (VMware,	VMware Virtual S SAS,	MBR, 500.00 (	GB)		
Copy Partition Wizard				*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
E Co	opy Disk '	Wizard		C:	59.46 GB	14.18 GB	45.28 GB	NTFS	Primary
Partiti	ion Mana	agement	$\overline{\mathbf{O}}$	*:	108.43 GB	107.34 MB	108.33 GB	NTFS	Primary
🗄 Cr	reate Par	tition		E:	134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
Ø W	/ipe Parti	tion		*:	197.21 GB	0 B	197.21 GB	Unallocated	Logical
Check	Partitio	n	$\overline{\mathbf{O}}$	Disk 2 (VMware,	. VMware Virtual S SAS,	MBR, 256.00 (	GB)		
SI	urface Te	est		G:	112.83 GB	107.48 MB	112.72 GB	NTES	Brimany
🔳 Pa	artition Pr	roperties		н:	74.64 GB		74.54 GB		Primary
🖂 Da	ata Recov	very				97.29 MB		NTFS	Primary
	rations I Delete: (F	Pending : ( Disk 1 P	artition	I:	68.53 GB	97.10 MB	68.44 GB	NTFS	Primary
					n Resi C:(NTFS) 3 (Use 59.5 GB (Usi 108		E:(NTFS) 134.4 GB (Used:	(Unallocated) 0%) 197.2 GB	
				Disk 2 MBR 256.00 GB	-S) GB (Used: 0%)		H:(NTFS) 74.6 GB (Used:	0%) 68.5 GE	5) 3 (Used: 0%)

2. Choose "Undo Last Changes" from the drop-down list of General item.

eneral View Disk Par	rtition	Dynamic	Disk Wizard H	lelp					Mini Too
Reload Disk F5			inur				E.	$\odot$	
<ul> <li>Apply Changes Ctrl+</li> </ul>	+A	covery	Partition Recovery	Disk Benc	hmark Space An	alyzer Data Ba	ackup	Bootable Media	Manual Regist
Undo Last Changes Ctrl+	+Ζ	^	Partition		Capacity	Used	Unused	File System	Туре
C Discard All Changes Ctrl+	+D		Disk 1 (VMw	are, VMwa	are Virtual S SAS,	MBR, 500.00 (	GB)		
) Exit			*:System Reserv	/ed	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard			C:		59.46 GB	14.18 GB	45.28 GB	NTFS	Primary
Partition Management	$\bigcirc$		*:		108.43 GB	107.34 MB	108.33 GB	NTFS	Primary
Create Partition			E:		134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
			*:		197.21 GB	0 B	197.21 GB	Unallocated	Logical
Check Partition	$\bigcirc$		w Disk 2 (VMw	are, VMwa	are Virtual S SAS,	MBR, 256.00 (	GB)		
Surface Test			G:		112.83 GB	107.48 MB	112.72 GB	NTFS	Primary
Partition Properties			H:		74.64 GB	97.29 MB	74.54 GB	NTFS	Primary
🕀 Data Recovery			I:		68.53 GB	97.10 MB	68.44 GB	NTFS	Primary
1 Operations Pending 1. Delete: (F: ( Disk 1 Pa	rtition	4							
					C:(NTFS) 59.5 GB (Usi 10	TFS) 8.4 GB (Used: (	E:(NTFS) 134.4 GB (Used:	(Unallocated) 0%) 197.2 GB	
				NTFS) 2.8 GB (Us	ed: 0%)		H:(NTFS) 74.6 GB (Used:	0%) I:(NTF 68.5 G	S) B (Used: 0%)

3. Make use of the shortcut keys Ctrl + Z.

To cancel all changes, users need to employ the feature **Discard**.

eneral	View	Disk Pa	artition Dy	namic Disk Wizar	l Help					Mini Too
$\checkmark$	5	X	iumo	ími o				Q.	0	
pply	Undo	Discard	Data Reco	very Partition Reco	very Disk Ber	nchmark Space A	Analyzer Data B	ackup	Bootable Medi	a Manual Regis
Wizaı	rd			Partition		Capacity	Used	Unused	File System	Туре
[i] N	ligrate OS	to SSD/HD	Wizard	🥌 Disk 1 (	VMware, VM	ware Virtual S SA	S, MBR, 500.00	GB)		
Ġ (	Copy Partit	ion Wizard		*:System R	eserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
F (	Copy Disk \	Nizard		C:		59.46 GB	14.18 GB	45.28 GB	NTFS	Primary
Partit	tion Mana	gement	$\bigcirc$	*:		108.43 GB	107.34 MB	108.33 GB	NTFS	Primary
± (	Create Parl	tition		E:		134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
ØV	Vipe Partit	ion		*:		197.21 GB	0 B	197.21 GB	Unallocated	Logical
Check	k Partitio	n	$\bigcirc$	🥌 Disk 2 (	VMware, VMv	ware Virtual S SA	S, MBR, 256.00	GB)		
- S	Surface Te	st		G:		112.83 GB	107.48 MB	112.72 GB	NTFS	Primary
	Partition Pr			H:		74.64 GB	97.29 MB	74.54 GB	NTFS	Primary
	)ata Recov	rery		I:		68,53 GB		68.44 GB	NTES	Primary
	erations F Delete: (F	Pending : (Disk 1 Pa	artition							
				•						
				Disk 1 MBR 500.00 GB	System Res 549 MB (Us		NTFS) 108.4 GB (Used:	E:(NTFS) 0'134.4 GB (Used	(Unallocated : 0%) 197.2 GB	)
				Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (U	Ised: 0%)		H:(NTFS) 74.6 GB (Used:	0%) 68.5	FS) GB (Used: 0%)

# 12. Help

The Help item in Menu Bar has 6 broad items as following:

1. **FAQ:** Go to **Help** > **FAQ** and users will enter a website which shows them how to use this software to solve some common disk or partition issues.

eneral View Disk Pa	rtition Dynam	nic Disk Wizard	Help	p							Mil	ni T	00
/ 6 X			0	FAQ						٢		2	Q
pply Undo Discard	Data Recover	Partition Recover	2	Contents	Fi	1	er Data Ba	ckup		Bootable Me	edia Mar	ual R	egist
Wizard		Partition	$\boxtimes$	Contact Us			Used	Unused	Fi	le System	Туре	9	
Migrate OS to SSD/HD	<u> </u>	🥌 Disk 1 (VI	ſ,	Checking for	r update		R, 500.00 0	מי)					
Copy Partition Wizard	VVIZOI O		0	Enter Licens	e key			·					
Copy Disk Wizard		*:System Res		Debua		•	74.37 MB	174.63 MB		NTFS	E F	rimary	
,		C:		5			14.18 GB	45.28 GB		NTFS	F	Primary	
Change Partition	$\bigcirc$	*:	_	About			07.34 MB	108.33 GB		NTFS	E F	Primary	
Move/Resize Partition		E:			134.35 G	B	108.21 MB	134.25 GB		NTFS	🗖 l	ogical	
Extend Partition		F:			197.21 G	B	119.12 MB	197.09 GB		NTFS	□ ι	ogical	
Merge Partition		🛶 Disk 2 (VM	Mware	e, VMware V	/irtual S S	AS, ME	R, 256.00 0	iB)					
C Split Partition		G:			112.83 G	В	107.48 MB	112.72 GB		NTES	F	rimary	
Change Cluster Size		н:			74.64 G	R	97.29 MB	74.54 GB		NTFS		rimary	
N/ Convert NTES to FAT		I:			68.53 G		97.10 MB	68.44 GB		NTES		rimary	
Partition Management	$\odot$	1.			00.33 G	D	97.10 MD	00.44 GB		NIFS		TITICIY	
Delete Partition													
Format Partition	-	(											
Copy Partition		Disk 1											
Align Partition					NTFS) 5 GB (Usi	(NTFS 108.4		E:(NTFS) 134.4 GB (Us	ed: 0%)	F:(NTFS) 197.2 GB (	Used: 0%)		
Wipe Partition										V			
E]) Set Label		Disk 2 MBR	G:(NT	FS)				H:(NTFS)		1.(	NTFS)		
🖷 Change Drive Letter				GB (Used: (	)%)			74.6 GB (Use	ed: 0%)		.5 GB (Used:	0%)	

2. Contents: Go to Help > Contents F1 or press on F1, and users will get the interface where all functional tutorials of this program are shown.

eneral View Disk Pa	artition Dyr	namic Disk Wizard	Help				Mini Too
< 5 X			⊖ FAQ			٢	
pply Undo Discard	Data Recov	very Partition Recover	🖏 Contents 🛛 F1	er Data Ba	ckup	Bootable Media	Manual Regist
		Partition	🖂 Contact Us	Used	Unused	File System	Туре
Wizard			Checking for update				. 16-
Migrate OS to SSD/HD Copy Partition Wizard	vvizaro	<b>Disk 1</b> (V)	Enter License key	R, 500.00 G	в)		
0		*:System Res		74.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard		C:	Debug	14.18 GB	45.28 GB	NTFS	Primary
Change Partition	$\overline{\mathbf{O}}$	*:	About	.07.34 MB	108.33 GB	NTFS	Primary
Move/Resize Partition		E:	134.35 GB	108.21 MB	134.25 GB	NTFS	Logical
Extend Partition		F:	197.21 GB	119.12 MB	197.09 GB	NTFS	Logical
S Merge Partition		Disk 2 (VA	Aware, VMware Virtual S SAS	MBR 256.00.0	B)		
⊐ ⊂ Split Partition			-				_
Change Cluster Size		G:	112.83 GB	107.48 MB	112.72 GB	NTFS	Primary
Convert NTFS to FAT		H:	74.64 GB	97.29 MB	74.54 GB	NTFS	Primary
Partition Management	$\overline{\mathbf{A}}$	I:	68.53 GB	97.10 MB	68.44 GB	NTFS	Primary
Delete Partition	-						
S Format Partition		•					
Copy Partition		Disk 1					
Align Partition			System Res∈ C:(NTFS) (N 549 MB (Us∈ 59.5 GB (Us∈ 10	NTFS) 08.4 GB (Used: 0	E:(NTFS)	F:(NTFS) 197.2 GB (Used	• 0%)
Wipe Partition		[	10 (03) 00 (03) 01 (03)		10 (00ed. 0%	J I J J J J J J J J _ J	. 070)
E]) Set Label		Disk 2	- ()				
Change Drive Letter			G:(NTFS) 112.8 GB (Used: 0%)		H:(NTFS) 74.6 GB (Used: 0%	I:(NTFS	) (Used: 0%)

3. **Contact Us:** Go to **Help> Contact Us**, users can contact MiniTool Partition Wizard's technical support directly to get help.

neral View Disk F	Partition Dyna	amic Disk Wizard	Help	p							Мл	ni Tod
/ 6 X		inne	600	FAQ						٢	)	
oply Undo Discard	Data Recove	ery Partition Recover	8	Contents	F1		er			Bootable	Med	lia Man
Wizard		Partition	$\boxtimes$	Contact Us			Used	Unused	File Syste	n	Тур	e
☐ Migrate OS to SSD/⊢	<u> </u>	Sisk 1 (VI	Ð	Checking fo	or update		R, 500.00 G	GB)				
Copy Partition Wizar	d	*:System Res	0	Enter Licen	se key		74.37 MB	174.63 MB	NTE	2	-	Primary
Copy Disk Wizard		C:		Debug		►	21.97 GB	37.50 GB	NTE	-		Primary
Convert Disk		E:		About			07.35 MB	108.33 GB	NTE			Primary
Copy Disk	$\bigcirc$	E:	_		134.35 GE		108.23 MB	108.33 GB	NTE			
고 Convert MBR Disk to	GPT Disk	1:			58.85 GE		941.76 MB	57.93 GB	FAT3			Logical
Clean Disk										-		Logical
Wipe Disk	•	I:			138.36 GE		108.28 MB	138.25 GB	NTE	5		Logical
Delete All Partitions		Disk 2 (VI	Mware	e, VMware	Virtual S SA	λS, Μ	BR, 256.00 0	GB)				
8		G:			67.74 GE	3	97.10 MB	67.65 GB	NTE	5		Primary
Check Disk	$\odot$	H:			106.25 GE	3	107.30 MB	106.14 GB	NTE	5		Primary
음 Align All Partitions ⓒ Rebuild MBR		•										1
Rebuild MBR     Surface Test		Disk 1										
Partition Recovery				m Res C:( 1B (Use 59.		F:(NT 108.4		E:(NTFS) 134.4 GB (Use	J:(FA	T32) I:(NT GB (Us: 138.4		(Used: 0%
Disk Properties									, Teere .			( 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0
Data Recovery			G:(NT	"FS) GB (Used: 0	19/1		ITFS) 2 GB (Used:	0%)		(NTFS) .0 GB (Used:	0043	
) Operations Pending			07.70	an (Used: 0	(00)	100.	z ob (used:	0.76)		.u an (usea:	070)	

4. Checking for Upgrade: Go to Help > Checking for upgrade, and this software will check whether there is a new version available or not.

eneral View Disk Pa	artition Dynar	nic Disk Wizard	Help					Mini Too
pply Undo Discard	Data Recover	y Partition Recover	FAQ     Contents		er Data B	ackup	Bootable Med	lia Manual Regist
Wizard	Wizard	Partition	Contact	Us g for update	Used	Unused	File System	Туре
Copy Partition Wizard	Wizdi u	*:System Res	G Enter Lie Debug	cense key	74.37 MB	174.63 MB	NTFS	Primary
Copy Disk Wizard	$\odot$	C: *:	About		14.18 GB	45.28 GB 108.33 GB	NTFS	<ul><li>Primary</li><li>Primary</li></ul>
Move/Resize Partition		E: F:		134.35 GB 197.21 GB	108.21 MB	134.25 GB 197.09 GB	NTFS	<ul> <li>Logical</li> <li>Logical</li> </ul>
Merge Partition  Split Partition			lware, VMwa	re Virtual S SAS, 112.83 GB		GB) 112.72 GB	NTES	Primary
Change Cluster Size $A_{H_{\nu}}^{\mu \mu}$ Convert NTFS to FAT		H: I:		74.64 GB 68.53 GB	97.29 MB 97.10 MB	74.54 GB	NTFS	Primary Primary Primary
Partition Management Delete Partition Format Partition	$\odot$	•		00.35 80	37.10 MD	UU.TT GD		- Thindy
Copy Partition					FFS) 3.4 GB (Used: )	E:(NTFS) 0' 134.4 GB (Used	f:(NTFS) d: 0%) 197.2 GB (U	sed: 0%)
<ul> <li>✓ Wipe Partition</li> <li>□ Set Label</li> <li>● Change Drive Letter</li> </ul>			G:(NTFS) 12.8 GB (Use	d: 0%)		H:(NTFS) 74.6 GB (Used		TFS) i GB (Used: 0%)

5. Enter License Key: If users purchase a license key from the official site, they should go to Help > Enter License key and enter the pop-out interface to register for the corresponding edition.

neral View Disk P	artition Dyna	mic Disk Wizard	Help			Mini Too
V G X		ry Partition Recover	<ul> <li>➢ FAQ</li> <li>➡ Contents</li> <li>➡ F1</li> </ul>	er Data Backup	Bootable Media	Manual Regist
	_ ^	Partition	🖂 Contact Us	Used Unused	File System	Туре
Wizard			Checking for update		The System	Type
Migrate OS to SSD/HI Copy Partition Wizard		<b>→ Disk 1</b> (VN	B Enter License key	R, 500.00 GB)		
Copy Disk Wizard		*:System Res	Debug •	74.37 MB 174.63 MB	NTFS	Primary
,		C:	About	14.18 GB 45.28 GB	NTFS	Primary
Change Partition	$\bigcirc$	*:	ADOUL	07.34 MB 108.33 GB	NTFS	Primary
Move/Resize Partition		E:	134.35 GB	108.21 MB 134.25 GB	NTFS	Logical
Extend Partition		F:	197.21 GB	119.12 MB 197.09 GB	NTFS	Logical
Merge Partition □ Split Partition		Sisk 2 (VN	Mware, VMware Virtual S SAS, M	BR, 256.00 GB)		
Change Cluster Size		G:	112.83 GB	107.48 MB 112.72 GB	NTFS	Primary
Convert NTFS to FAT		н:	74.64 GB	97.29 MB 74.54 GB	NTFS	Primary
Partition Management	$\odot$	I:	68.53 GB	97.10 MB 68.44 GB	NTFS	Primary
Delete Partition						
Format Partition		•				
Copy Partition Align Partition			System Resi 549 MB (Use 59.5 GB (Use 108.4		F:(NTFS) 197.2 GB (Used	d: 0%)
Wipe Partition		Di-l- D		1		
티) Set Label 웹 Change Drive Letter			G:(NTFS) 112.8 GB (Used: 0%)	H:(NTFS) 74.6 GB (Used	: 0%) I:(NTF:	5) 3 (Used: 0%)

#### 6. Debug Help:

**1). Export Log:** Go to **Help > Debug Help > Export Log** to export the log of operations and save it to the specified path.

Step 1. Go to **Help > Debug Help > Export Log**.

eneral View Disk Pa	artition Dynami	c Disk Wizard	Help		Mini Tool
undo     Discard       Wizard     Image: Copy Partition Wizard       Image: Copy Disk Wizard     Image: Copy Disk       Image: Copy Disk     Image: Copy Disk	$\odot$	Partition Recover Partition Partition Disk 1 (VI *:System Res C: *: E:	<ul> <li>➢ FAQ</li> <li>➢ Contents F1</li> <li>➢ Contact Us</li> <li>⑦ Checking for update</li> <li>④ Enter License key</li> <li>▶ Debug ▶</li> <li>About</li> </ul>	er Data Backup Used Unused Fi R, 500.00 GB) 74 37 MR 174 63 MR Export Log Export disk configuration Make Screenshot	Image: System     Type       NTFS     Primary       NTFS     Primary       NTFS     Primary       NTFS     Logical
Convert MBR Disk to G Clean Disk	SPT Disk	F: Disk 2 (VN	197.21 GB //ware, VMware Virtual S SAS, ME	<ul> <li>Make Debug Image</li> <li>Restore Debug Image</li> </ul>	NTFS 🗖 Logical
Wipe Disk Uplete All Partitions Check Disk	$\overline{\mathbf{O}}$	G: H: I:	112.83 GB 74.64 GB 68.53 GB	<ul> <li>Export NTFS File Record</li> <li>97.29 MB 74.54 GB</li> <li>97.10 MB 68.44 GB</li> </ul>	NTFS Primary NTFS Primary NTFS Primary
<ul> <li>Align All Partitions</li> <li>Rebuild MBR</li> <li>Surface Test</li> <li>Partition Recovery</li> <li>Disk Properties</li> </ul>			System Res C:(NTFS) 549 MB (Use 59.5 GB (Use 108.4	) E:(NTFS) GB (Used: 0') 134.4 GB (Used: 0%)	F:(NTFS) 197.2 GB (Used: 0%)
Data Recovery O Operations Pending			S:(NTFS) 112.8 GB (Used: 0%)	H:(NTFS) 74.6 GB (Used: 0%)	I:(NTFS) 68.5 GB (Used: 0%)

Step 2. Choose a proper storage path, set the file name and then click on Save.

趥 MiniTool Partitio	on Wizard Pro 11		– 🗆 ×
General View	Disk Partition Dynamic Disk Wizard Help		Mini Tool
Apply Undo	Discard Data Recovery Partition Recovery Disk Benchmark Space Analyzer Data Backup	Bootable Media	Manual Register
Wizard	🤣 Export log file	×	Туре
🕼 Migrate OS t	· ← → · ↑ 🔜 → This PC → Desktop · ♂ 🕑 Search Desktop	م	
Copy Partitio	Organize ▼ New folder 🔠 ▼	• • • • • • • • • • • • • • • • • • • •	Primary
Copy Disk W	A Name Date modified Type	Size	Primary
Convert Disk	Desktop * No items match your search.		Primary
🗊 Copy Disk	United and the second s		Logical
Convert MBR	Documents 🖈		Logical
Clean Disk	E Pictures 🖈		
🖉 Wipe Disk	Music     Wideos	_	
Delete All Pa			Primary
Check Disk	ConeDrive		Primary
음 Align All Part	This PC v <	>	Primary
© Rebuild MBR		~	
Surface Test	Save as type: Log File (* tyt)	~	•
Partition Rec			
🔲 Disk Properti	ri filderoidela	rcel FS)	1: 0%)
Data Recove			
0 Operations Pe	Disk 2         G:(NTFS)         H:(NTFS)           256.00 GB         112.8 GB (Used: 0%)         74.6 GB (Used: 0%)	) I:(NTF5 68.5 GE	5) 3 (Used: 0%)
GPT/Primary	Logical Simple Spanned Striped Mirrored RAIDS Unallocated		( <b>) y (</b>

At last, the log will be stored on the specified path.

#### 2). Export Disk Configuration:

🍅 MiniTool Partition Wiza	rd Pro 11									_	
ieneral View Disk	Partition Dynam	nic Disk Wizard	Help							Mini	Тоо
Apply Undo Discard	Data Recovery	Partition Recover	FAQ Content Contact	Us		er Data Ba Jsed	ickup Unused	File	Bootable Media	Manual Type	Regis
Migrate OS to SSD/     Copy Partition Wizar		🥌 Disk 1 (V)	G Enter Li	ig for update icense key	_	R, 500.00 G	-			_	
Copy Disk Wizard		*:System Res C:	Debug		Þ	74 37 MR	174.63 MR Log		NTFS	<ul><li>Prim</li><li>Prim</li></ul>	
Convert Disk	$\overline{\mathbf{O}}$	*: E:	About	134.35 GE			disk configura Screenshot	tion	NTFS	Prim	
<ul> <li>Convert MBR Disk to</li> </ul>	GPT Disk	F:		197.21 GE			Debug Image		NTFS	Logic	
Clean Disk	$\overline{\mathbf{O}}$	<b>— Disk 2</b> (VN G:	Aware, VMwa	are Virtual S SA		-	e Debug Imag NTFS File Rec		NTES	Prim	arv
Delete All Partitions		н:		74.64 GE		97.29 MB	74.54 GB		NTFS	Prim	1
음 Align All Partitions		I:		68.53 GE	3	97.10 MB	68.44 GB		NTFS	Prim	ary
Surface Test	•										
<ul> <li>Partition Recovery</li> <li>Disk Properties</li> </ul>			System Res 549 MB (Use	C:(NTFS) 59.5 GB (Us	(NTFS) 108.4 (	GB (Used: 0	E:(NTFS) 134.4 GB (U	sed: 0%)	F:(NTFS) 197.2 GB (Used:	: 0%)	
Data Recovery O Operations Pending	•		G:(NTFS) 112.8 GB (Us	ed: 0%)			H:(NTFS) 74.6 GB (U	sed: 0%)	I:(NTFS 68.5 GB	) (Used: 0%	)

. **- F** et diele ու ILab a 1 0 TT . 1 -fi ...

Step 2. Select a proper path to store this disk configuration and set a name for it on this pop-out interface. Then click on Save.

<u>ঠ</u> Mini	Tool Partitio	on Wizard F	Pro 11												_	
General	View	Disk Pa	rtition Dyr	namic Disk	Wizard	Help									Mini	Tool
Apply	€ Undo	X Discard	Data Recor	very Parti	tion Recover	y Disk Bend	chmark Spa	ece Analyze	: er Dat	Sola Backup	)		-	) Die Media	For Manual	<b>Q</b> Register
Wiza	rd	<b>ể</b> Expor	t disk configi	uration									×		Туре	
G N	Aigrate OS	t ← →	~ 🛧 🗖	> This PC	> Desktop			~	Ö	Search [	Desktop		Q			
<b>@</b> (	Copy Partitio	Organiz	ze 🔻 Ne	w folder									?		Prim	ary
e (	Copy Disk W		uick access	^ N	ame	^		Dat	te modi	fied	Туре		Size		Prim	ary
Chan	ge Partitio			*			No iten	ns match yo	our sear	ch.					Prim	ary
	Move/Resize	•	Downloads	*											🗖 Logi	cal
R E	Extend Parti	t 🏦 🕻	Documents	*											Logie	cal
51	Merge Partit			*												
3 C 9	Split Partitio		Music													
: <u>.</u> (	Change Clus		/ideos												Prim	ary
£5 €	Convert NTF	- > 🐔 Or	neDrive												Prim	ary
Parti	tion Manag	> 💻 Th	nis PC	v <									>		Prim	ary
<u>ا</u> آ	)elete Partit	i	File name:										~			
F	Format Part	i S	ave as type:	Text File (*	txt)								~			•
60	Copy Partitic															
8 A	Align Partitio	A Hide	Folders							Sa	ive	Canc		FS) GB (Used:	0%)	
Ø	Vipe Partitio	on					· •							, (	/	
E) s	Set Label				Disk 2 MBR	. (					(1)					
\$ C	Change Part	ition Type		2		G:(NTFS) 112.8 GB (Us	sed: 0%)				:(NTFS) 4.6 GB (Us	sed: 0%)		I:(NTFS) 68.5 GB	Used: 0%	,)
GP1	Г/Primary	Logical	I 🔲 Simpl		anned 🔲	Striped 🔲	Mirrored	RAID5	U	nallocate	d				ſ	<b>Y 8</b>

The disk configuration will be stored on the specified path.

#### 3). Make Screenshot:

Step 1. Go to **Help > Debug Help > Make Screenshot**.

neral View Disk Part	ition Dynam	c Disk Wizard	Help	L		Mini Too
pply Undo Discard	Data Recovery	Partition Recover	<ul><li>FAQ</li><li>Contents</li><li>F1</li></ul>	er Data Backup	Bootable Media	Manual Regist
Wizard	<u>ہ</u>	Partition	Contact Us Checking for update		le System	Туре
Migrate OS to SSD/HD V	Vizard	🥌 Disk 1 (VM		R, 500.00 GB)		
Copy Partition Wizard		*:System Res	Enter License key	74 37 MR 174 63 MR	NTFS	Primary
Copy Disk Wizard		C:	Debug 🕨	Export Log	NTFS	Primary
Change Partition		*:	About	Export disk configuration	NTFS	Primary
Move/Resize Partition		E:	134.35 GB	Make Screenshot	NTFS	Logical
Extend Partition		F:	197.21 GB	🖞 Make Debug Image	NTFS	Logical
Merge Partition		Dick 2 (VA	1ware, VMware Virtual S SAS, MI	🛱 Restore Debug Image		
C Split Partition				Export NTFS File Record		_
Change Cluster Size		G:	112.83 GB		NTFS	Primary
Convert NTFS to FAT		H:	74.64 GB	97.29 MB 74.54 GB	NTFS	Primary
Partition Management		I:	68.53 GB	97.10 MB 68.44 GB	NTFS	Primary
Format Partition						
Copy Partition		Disk 1				
Align Partition			System Res C:(NTFS) (NTFS 549 MB (Use 59.5 GB (Use 108.4	) E:(NTFS) GB (Used: 0' 134.4 GB (Used: 0%)	F:(NTFS) 197.2 GB (Used:	0%)
			100.4	GB (05cd. 0 ), 15 / 4 GB (05cd. 0 /0)	Д 137.2 00 (03ей.	0.0)
E]) Set Label		Disk 2				
Change Partition Type II			G:(NTFS) 112.8 GB (Used: 0%)	H:(NTFS) 74.6 GB (Used: 0%)	I:(NTFS) 68.5 GB	) (Used: 0%)

Step 2. Click on Save Screenshot to continue.

yply Undo Discard	Data Recovery Partition Recovery Disk Benchmark Space Analyzer Data	ita Backup	Bootable Media	Manual Regis
Vizard	Partition Capacity Used	Unused	File System	Туре
Migrate OS to SSD/H	🚧 Save As		×	
👌 Copy Partition Wizar	← → ✓ ↑ 📴 « Program Fi → MiniTool Partition Wizard 11 →	✓ ♂ Search MiniTool	Partition Wiz P	Primary
Copy Disk Wizard	Organize  New folder		≣≕ ▼ (?)	Primary
Change Partition       Image Partition	✓ Quick access       diskspd       1         ● Desktop       ✓       en-us       1         ◆ Downloads       ✓       imageformats       1         ☑ Documents       ✓       PEDrivers       1         ☑ Pictures       ✓       PETools       1         ☑ Music       □ platforms       1       1         ☑ Videos       □ pxeBoot       1		older older older older older older older	<ul> <li>Primary</li> <li>Logical</li> <li>Logical</li> <li>Primary</li> <li>Primary</li> <li>Primary</li> <li>Primary</li> </ul>
<ul> <li>Format Partition</li> <li>Copy Partition</li> <li>Align Partition</li> </ul>	File name: untitled Save as type: PNG Files (*.png)			: 0%)
<ul> <li>✓ Wipe Partition</li> <li>E         Set Label     </li> <li>         Change Partition Typ     </li> </ul>	▲ Hide Folders MBR G:(NTFS) 256.00 GB 112.8 GB (Used: 0%)	Save H:(NTFS) 74.6 GB (Used: 0	Cancel .:: 1:(NTFS 0%) 68.5 GB	) (Used: 0%)

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Step 3. In this second pop-out window, select a storage path, add a name for the screenshot and then click on **Save**. The screenshot will be stored in the specified path finally.

eneral View Disk Partition	Dynamic Disk Wizard	Help			Mini Tool
yply Undo Discard Data     Data     Data     Migrate OS to SSD/HD Wizard     Copy Partition Wizard     Copy Disk Wizard     Change Partition     ✓ Move/Resize Partition     Extend Partition     Son Marge Partition	Disk 1 (V     *:System Res     C:	Contact Us  Checking for update  Enter License key	er Data Backup Used Unused R R, 500.00 GB) 74 37 MR 174 63 MR Export Log Export disk configuration Make Screenshot Make Debug Image	Bootable Media File System NTFS NTFS NTFS NTFS NTFS NTFS NTFS	Manual Regist Type Primary Primary Cogical Logical
Convert NTFS to FAT     Partition     Convert NTFS to FAT     Partition Management     ① Delete Partition	G: H:	Mware, VMware Virtual S SAS, Mi 112.83 GB 74.64 GB 68.53 GB	Restore Debug Image     Export NTFS File Record 97.29 MB 74.54 GB 97.10 MB 68.44 GB	NTFS NTFS NTFS	<ul><li>Primary</li><li>Primary</li><li>Primary</li></ul>
Image: Second Secon	500.00 GB	System Res. 549 MB (Use 59.5 GB (Us) 108.4 G:(NTFS) 112.8 GB (Used: 0%)	5) GB (Used: 0 <sup>1</sup> ) H:(NTFS) 74.6 GB (Used: 0%	I:(NTF:	

#### 4). Make Debug Image:

This function will help users to create a partition image for debugging purpose. The created image file will contain the file system information only. It supports NTFS file system only.

Step 1. Go to **Help > Debug Help > Make Debug Image**.

<b>i</b> Save image file					×	
← → ~ ↑ [	« Progra	am Fi > MiniTool Partition Wizard	d 11 → 🗸 Ö Search N	liniTool Partition W	íz , <b>P</b>	
Organize 👻 🖪	lew folder					stem
	^	Name	Date modified	Туре	Size	stern
A Quick access		diskspd	11/20/2018 11:58	File folder		
Desktop	*	en-us	11/20/2018 11:58	File folder		
🕹 Downloads	*	imageformats	11/20/2018 11:57	File folder		
🔮 Documents	*	PEDrivers	11/20/2018 11:58	File folder		
E Pictures	*	PETools	11/20/2018 11:58	File folder		
Music		platforms	11/20/2018 11:57	File folder		
Videos		pxeBoot	11/20/2018 11:58	File folder		
15 and		x64	11/20/2018 11:58	File folder		
🝊 OneDrive		x86	11/20/2018 11:58	File folder		
This PC						
	✓ <				>	
File name					~	
Save as type	Debug In	nage File (*.kmg)			~	
Sure us type	bebagin					
A Hide Folders			Say	/e Car	cel	
A filderolders						

Step 2. Click on **Browse** button. There will be a pop-out window which enables users to choose a proper stored path and set the file name. Then press on **Save** to continue.

is function will help you t Please select a partition from		on image for de	bug purpose. The cre	ated image file will co	ontain the file system informat	tion onl
Partition	apacity Use	ed Inused	File System	Туре	Status	-
Disk 1 (VMware	e, VMware Virtual S	SAS, MBR, 500.0	0 GB)			
*:System Reserved	549.00 MB 374	.37 MB 174.63 N	1B NTFS	Primary	Active & System	
C:	59.46 GB 19	.60 GB 39.86 (	GB NTFS	Primary	Boot	
*:	108.43 GB 107	.34 MB 108.33 (	GB NTFS	Primary	None	
E:	134.35 GB 108	.23 MB 134.25 (	GB NTFS	Logical	None	
F:	197.21 GB 119	.14 MB 197.09 (	GB NTFS	Logical	None	
👞 Disk 2 (VMware	e, VMware Virtual S	SAS, MBR, 256.0	0 GB)			
G:	112.83 GB 107	.50 MB 112.72 (	GB NTFS	Primary	None	
File:						
Please set the path & filenam	ne for the image file					
C:/debug.kmg					Br	owse
Progress:						
						29
Total:						99
Fotal:						

Step 3. Click on Start! and this software will start the debug image making process. Just press

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enera	View	Disk	Partition	Dynar	nic Disk	Wizard	Help										Mini	Тоо
,pply	Undo Vipe Parti	Discard	Data F	Recover	y Partiti Capaci	on Recove		AQ Content: Contact		F1	er File 3	System	1	Туре		Bootab	le Media	Manu
ED :	Set Label					.00 MB	1	heckin	g for upda	te		NTFS		Primar	v		Active &	System
	Change Dr	ve Letter			59	.46 GB	<b>Q</b> E	nter Lie	cense key			NTFS		Primar	У		Boot	
	Change Pa				108	.43 GB	D	ebug		Þ		Export	Log		1		None	
	Change Se		ber		134	.35 GB	A	bout				Export	disk configu	iration			None	
	lide Partit Set Inactiv				58	.85 GB	941.7	6 MB	57.93	GB		Make S	creenshot				None	
		-			138	.36 GB	108.2	8 MB	138.25	5 GB	Ð	Make D	ebug Imag	8			None	
	<b>k Partitio</b> Explore Pa		$\diamond$		are Virtua	al S SAS, N	4BR, 25	6.00 G	В)		6	Restore	e Debug Im	age				
	Surface Te				67	.74 GB	97.1	0 MB	67.65	5 GB	6	Export	NTFS File F	lecord	1		None	
	Partition Pr	operties			106	.25 GB	107.3	0 MB	106.14	GB		NTFS		Primar	y		None	
	Data Recov	very			82	.00 GB	97.5	2 MB	81.90	) GB		NTFS		Logical			None	
) Op	erations I	Pending			•													
					M	<b>isk 1</b> BR 00.00 GB	System 549 ME		C:(NTFS) 59.5 GB (		TFS) 4 GB (U	sed: C	E:(NTFS) 134.4 GB (	(Used: 0%)	J:(FAT3 58.8 GB		NTFS) 3.4 GB (Use	ed: 0%
					M		G:(NTF 67.7 G		i: 0%)		NTFS) 5.2 GB (	Used:	0%)		K:(N 82.0	TFS) GB (Used	i: 0%)	

on **OK** when this process is finished. Then, the debug image will be saved on the specified path.

#### 5). Restore Debug Image:

This function will help users to restore debug image file to a partition for debug purpose and just support NTFS file system.

Step 1. Go to **Help > Debug Help > Restore Debug Image**.

🯄 R	estore Debug Image						× Mini	
$\checkmark$ $\checkmark$ $\times$ This	function will help you to	rostoro dob	ua imago f	ilo to a part	ition for dobug p	unpaga.		
pply Undo Discar — Fil		restore dep	ug inage i	lie to a part	idon for debug p	irpose.	potable Media	Manu
	ase set the path & filename	for the image	e file:				Status	
E]) Set Label						Browse.	Active &	System
Change Drive Lette	ease select a partition from	below:					Boot	
Change Partition T	Partition	apacity	Used	Inused	File System	Туре	None	
IIII Change Serial Nun	Disk 1 (VMware,	VMware Virti		IBR 500.00 G	B)		None	
ንተኛ Hide Partition								
☆ Set Inactive	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary	None	
Check Partition	C:	59.46 GB	21.96 GB	37.50 GB	NTFS	Primary	None	
Q Explore Partition	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Primary		
Surface Test	E:	134.35 GB	108.23 MB	134.25 GB	NTFS	Logical	None	
Partition Properties	J:	58.85 GB	941.76 MB	57.93 GB	FAT32	Logical	None	
Data Recovery	I:	138.36 GB	108.28 MB	138.25 GB	NTFS	Logical	None	
0 Operations Pending	w Disk 2 (VMware,	VMware Virtu	ial S SAS, N	IBR, 256.00 G	B)			
o operations rending	G:	67.74 GB	97.10 MB	67.65 GB	NTFS	Primary	3	,
	H:	106.25 GB	107.30 MB	106.14 GB	NTFS	Primary	I:(NTFS)	
	к:		97.52 MB		NTES	Logical	138.4 GB (Us	ed: 0%)
	n.,	02.00 GB	57.JZ MD	01.90 GD	MIFS	Eligical	•	
						Start! Cancel	(Used: 0%)	
	Y							

Step 2. Click on Browse button on the pop-out window.

<b>ॐ</b> Open image file			×
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\Uparrow$ 📥 $\diamond$ Thi	is PC > Local Disk (C:) >	✓ O Search Lo	ocal Disk (C:)
Organize 👻 New folde			III 🔹 💶 ?
A Quick access	Name	Date modified	Type Size
🛄 Desktop 🖈 🤳	PerfLogs Program Files	9/29/2017 9:46 PM 11/20/2018 11:57	File folder File folder
🚆 Documents 🖈 📰 Pictures 🖈	Program Files (x86)	11/20/2018 11:50 5/8/2018 5:37 PM	File folder File folder
Music Videos	Users Windows	5/8/2018 5:37 PM 11/20/2018 5:51 PM	File folder File folder
a OneDrive	Windows10Upgrade	11/22/2018 9:29 AM 11/20/2018 6:33 PM	File folder KMG File 38
This PC Local Disk (C:)			
- choogs	<		>
File na	ame: debug.kmg	→ Debug li Opr	mage File (*.kmg) V en Cancel

Step 3. Pick the target debug image from the computer on this second pop-out window and then press on **Open** to continue.

🯂 Restore Debug Image					×
This function will help you to File: Please set the path & filename			ïle to a par	tition for debug purpo	se.
C:/debug.kmg					Browse
Please select a partition from	below:				
Partition	apacity	Used	Inused	File System	Туре
www.com Disk 1 (VMware, V	VMware Virtu	ual S SAS, N	1BR, 500.00	GB)	
F: Part	you sure tha ition?	t you want t	o restore the	e image file to the selecte	× <sup>hary</sup> nary nary
E:		Yes	No		ical
I:	138.36 GB	108.28 MB	138.25 GB	NTFS	Logical
Disk 2 (VMware, V	VMware Virtu	ual S SAS, N	1BR, 256.00	GB)	
G:	67.74 GB	97.10 MB	67.65 GB	NTFS	Primary
Н:	106.25 GB	107.30 MB	106.14 GB	NTFS	Primary
к:	82.00 GB	97.52 MB	81.90 GB	NTFS	Logical
•					•
				Sta	rt! Cancel

Step 4. Select a partition from this interface, click on **Start!** and then press on **Yes** from the pop-out window to start the restoring process.

🯄 Rest	tore Debug Image						×
	nction will help you to	restore del	bug image	file to a par	tition for debug	purpose.	
File:	e set the path & filename	for the imag	e file:				
	bug.kmg	5					Browse
		h - l - · · · ·					
Pleas	se select a partition from	apacity	Used	Inused	File System	Туре	<u> </u>
						. // -	
	Disk 1 (VMware,	VMware Virt	ual S SAS, I	MBR, 500.00	GB)		
	*:System Reserved	549 <u>ൽ</u> Ir	nformation			Pr	rimary
	C:	59	Dana		NTES	Pr	rimary
	F:	108 🧲	Done		NTFS	Pr	rimary
	E:	134	Time	elapsed: 00:	15 NTFS	🗖 Lo	ogical
	J:	58		ОК	AT32	🗖 Lo	ogical
	I:	138.36 GB	108.28 MB	3 138.25 GB	NTFS	🗖 Lo	ogical
	Disk 2 (VMware,	VMware Virt	ual S SAS, M	MBR, 256.00	GB)		-
•							• I
Prog	ress:						
Total:							100%
Proces	ssing files						100%
							100,0
					[	Start!	Cancel

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Note: The selected partition should have enough space for restoring debug image.

Step 5. Click on **OK** when the restoring process is finished.

6). Export NTFS File Record: This function will help users to export NTFS file record.

Step 1. Go to Help > Debug > Export NTFS File Record.

eneral	View Disk Pa	artition I	Dynamic Disk	Wizard	Help								M	ini T	00
	6 X	í			⊜ F	AQ							۲		
pply	Undo Discard	Data Re	covery Partitio	n Recover	R (	Contents	F1	L	er				Bootable Me	dia N	/lanu
🖉 Ext	end Partition		Partition	n	$\boxtimes$	Contact Us			Used	Unused	File	System	Ту	pe	
ሌ Me	rge Partition		*:Sy	stem Res	1	Checking for	update		74.37 MB	174.63 MB		NTFS		Primary	
⊐ ⊂ Spl	it Partition		C:		<b>Q</b>	Enter Licens	e key		21.97 GB	37.50 GB		NTFS		Primary	
🔚 Cha	ange Cluster Size		E:		[	Debug		►	Export	tlog		NTFS		Primary	
🗘 Cor	nvert NTFS to FAT		E:		ļ	About				t disk configurat	tion	NTFS		Logical	
Partitio	n Management	$\diamond$	J:	L,			58.85 G	в		Screenshot		FAT32		Logical	
前 Del	ete Partition		I:				138.36 G	в				NTES		Logical	
🖳 For	mat Partition			Sel. 3 () ()		Vite and M	introl C.C.	A.C. MI	_	Debug Image				5	
🕑 Cop	py Partition				ware,	, VMware V	irtudi 5 Si	AS, ME	🛱 Resto	re Debug Image					
음 Alig	n Partition		G:				67.74 GI			t NTFS File Rec	ord	NTFS		Primary	
🖉 Wip	pe Partition		H:				106.25 G	B 1	107.30 MB	106.14 GB		NTFS		Primary	
E]) Set	Label		К:				82.00 G	В	97.52 MB	81.90 GB		NTFS		Logical	
탄 Cha	ange Drive Letter		•												,
😂 Cha	ange Partition Type	ID	Dis	k 1		- T	, i	_		1			1		
IIII Cha	ange Serial Numbe	r	MBI	۲ s		n Res C:(N		F:(NTF		E:(NTFS)		J:(FAT32			
ንተኛ Hid	e Partition		500	.00 GB 5	49 MI	B (Us∉∬ 59.5	GB (Use	108.4	GB (Used: (	134.4 GB (Us	ed: 0%)	58.8 GB (	(Usi 138.4 GB	(Used: (	)%]
sr Set	Active		Dis												
Check F	Partition	$\bigcirc$	MBI 256	0	:(NTF 7.7 G	FS) B (Used: 0%	6)	H:(NT 106.2	FFS) 2 GB (Used:	0%)		K:(NT 82.0 (	FS) GB (Used: 0%)	)	
Q Che	eck File System		L	_											

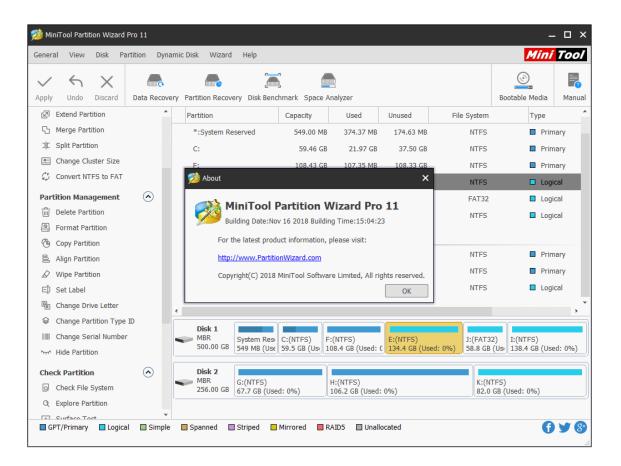
Step 2. Select a folder to store the exported file. Then click Select Folder.

🦚 Frank et de	apacity	Used	Inused	File System	Type		Stat
<b>i</b> Export to		-	-				×
$\leftrightarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ = :	→ This PC → I	ocal Disk (E:)	>	ٽ ~	Search Lo	cal Disk (E:)	<i>م</i>
Organize 👻 New	folder					==	- (?)
	^ Name		^	Date mod	dified	Туре	Size
📌 Quick access		FS file record		11/22/20	18 1:20 PM	File folder	
a OneDrive							
This PC							
This PC		ile second					
This PC	✓ < Folder: NTFS f	ïle record		[	Select Fo	lder Ca	ncel

Step 3. Select a partition from this interface, click on **OK** from the pop-out window.

Please select a partition from							
Partition	apacity	Used	Inused	File System	Ту	pe	Stal
Disk 1 (VMware,	VMware Virtu	ual S SAS, M	1BR, 500.00 G	В)			
*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS		Primary	Active
C:	59.46 GB	21.97 GB	37.50 GB	NTFS		Primary	Boot
F:	108.43 GB	107.35 MB	108.33 GB	NTES		Primary	None
E:	134.35 GB	108.23 MB	134.25 GB	NTES		Logical	None
J:	formation				_	×	None
I:							None
🥌 Disk 2 (V	Done!						
G:			s here: <u>E:\NT</u> -2018-11-22-				None
H:	_		ОК				None
nformation:							
				to			
le Record Count: 284							
le Record Count: 284 port File Record From:							
le Record Count: 284 cport File Record From:	for the expor	ted file:					
le Record Count: 284 port File Record From: ile: pase set the path & filename	for the expor	ted file:					Browse.
Ile Record Count: 284 xport File Record From: Ile: ease set the path & filename //NTFS file record Progress:	for the expor	ted file:					Browse.

7). **About:** Go to **Help > About**, and users will see a pop-out window as follows, which will show them some information about this software such as building date, building time, and copyright.



# 13. Offline Activation

# 13.1 Offline Activation

Usually, after installing MiniTool Partition Wizard paid edition, we just input the license key to the Registration box, click Register button and then we have finished online registration.

But if computer is not connected to the Internet, users will definitely receive the Offline Registration window. At this time, users should make their PC network connected. Otherwise, users will have to go through the offline license activation.

Tip: Users may copy the key information to a removable disk to get through all the steps quickly.

# 13.2 How to Do the Offline Activation

Step 1. Launch MiniTool Partition Wizard and click Register.

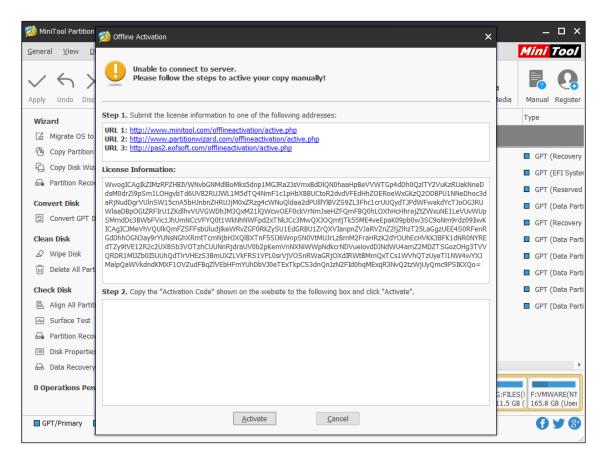
Second Missis Rich	Deutitien D	ensis Diele Mierod II-le					
eneral <u>V</u> iew <u>D</u> isk	Partition Dy	namic Disk <u>W</u> izard <u>H</u> elp					Mini Too
$\checkmark$ $\checkmark$ $\times$							
pply Undo Discard	Data Recove	y Partition Recovery Disk Be	nchmark Space Analy	/zer Data Back	cup	Bootable Med	ia Manual Regist
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/H	HD Wizard	🛶 Disk 1 (WDC WD5	000AAKX-08U6AA0 SA	TA, GPT, 465.7	76 GB)		
Copy Partition Wizar	d	*:Recovery	300.00 MB	11.07 MB	288.93 MB	NTFS	GPT (Recov
Copy Disk Wizard		*:	100.00 MB	30.99 MB	69.01 MB	FAT32	GPT (EFI Sy
Partition Recovery W	Vizard	*:	128.00 MB	128.00 MB	0 B	Other	GPT (Resen
Convert Disk	$\odot$	C:SYSTEM	98.65 GB	43.05 GB	55.59 GB	NTFS	GPT (Data F
Convert GPT Disk to	MBR Disk	*:	853.00 MB	388.46 MB	464.54 MB	NTFS	GPT (Recov
Clean Disk	$\odot$	D:PROGRAMS	100.00 GB	27.68 GB	72.32 GB	NTFS	GPT (Data F
🖉 Wipe Disk		E:PERSONAL	86.19 GB	82.25 GB	3.94 GB	NTFS	🔲 GPT (Data F
Delete All Partitions		I:	2.29 GB	2.29 GB	0 B	Other	🔲 GPT (Data F
Check Disk	$\odot$	G:FILES	11.52 GB	425.58 MB	11.10 GB	FAT32	🗖 GPT (Data F
음 Align All Partitions		F:VMWARE	165.76 GB	59.00 GB	106.76 GB	NTFS	🗖 GPT (Data F
🔒 Partition Recovery							
Disk Properties							
🕞 Data Recovery		•					
0 Operations Pending		Disk 1 GPT 465.76 GB			FFS) D:PROG 3 MB ( 100.0 GI		TLES(I F:VMWARE(I 5 GB ( 165.8 GB (Us
🗖 GPT/Primary 📃 Logi	ical 🔲 Simpl	e Spanned Striped	Mirrored 🔲 RA	ID5 🔲 Unallo	acatod		A V

Step 2. Input the license key and and click **Register**.

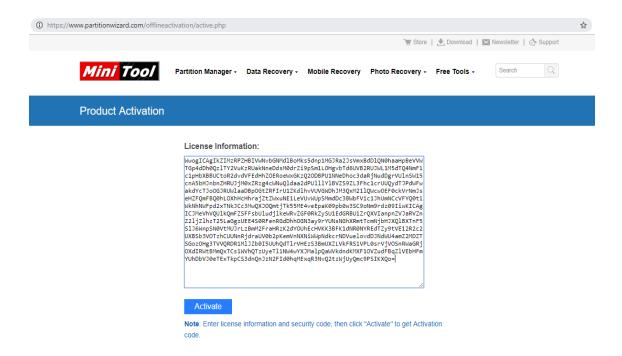
neral <u>V</u> iew <u>D</u> isk <u>P</u> artition	Dynamic Disk <u>W</u> izard <u>H</u> elp		Mini Too
ply Undo Discard Data Re	covery Partition Recovery Disk Benchmark Space Analyzer Data Backup	Bootable Media	Manual Regist
Vizard	Partition Capacity Used Unused File	System	Туре
Migrate OS to SSD/HD Wizar	🟂 Registration 🛛 🗙		
Copy Partition Wizard	To unlock all the functions, please register your copy of MiniTool Partition Wizard first.	NTFS	GPT (Recov
Copy Disk Wizard	If you do not have a license key, please click the "Buy Now" link to purchase a license key online.	AT32	GPT (EFI Sy
Partition Recovery Wizard	key online.	Other	GPT (Reser
onvert Disk 🤅	Buy Now	NTFS	GPT (Data I
② Convert GPT Disk to MBR Disk	Note: To unlock Data Recovery module, you need a Pro Ultimate or higher	NTFS	GPT (Recov
lean Disk	license.	NTFS	GPT (Data I
🖉 Wipe Disk		NTFS	GPT (Data I
Delete All Partitions	Please copy MiniTool Partition Wizard license code (with Ctrl+C), paste it into text box below	Other	GPT (Data I
heck Disk	(with CtrI+V) and click "Register" button to register your copy of MiniTool Partition Wizard. If you have any question or need help, please contact support@minitool.com for assistance.	AT32	🔲 GPT (Data I
Align All Partitions	have any question of need help, please contact support committee.com for assistance.	NTFS	GPT (Data I
조 Surface Test			
Partition Recovery	<u>R</u> egister <u>C</u> ancel		
Disk Properties		_	
Data Recovery	•		
Operations Pending	Disk 1         Recovery         (FAT32)         (Other)         C:SYST         (NTFS)         D:PROG         E:PRS           465.76 GB         300 MB (         100 MB (         128 MB         98.6 GB         853 MB (         100.0 GI         86.2 G	I:(Other) G:FILE 2.3 GB 11.5 G	· · · ·

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Step 3. **Connect the removable disk to the computer without network connection**, open it and create a new Text document. Then copy the three URLs as well as the License Information and save them to the Text document. Now safely remove the removable disk and leave the Offline Activation window there.



Step 4. **Connect the removable disk to a networked computer** and open the Text document. Now visit one of the three URLs listed. Then copy the License Information from the Text document and paste it into the box shown on the page users visit. Finally, click **Activate** button.



Step 5. And then users will get a Activation Code. Sometimes, users will be required to enter the Security Code after pressing Activate. Do this and again click Activate. Now the Activation Code is generated. Please save this code to the Text document for next process and finally remove the removable disk safely.

#### License Information:

WwogICAgIkZIMzRPZHBIVWNvbGNMdlBoMks5dnp1MGJRa2JsVmxBdDlQN0haaHpBeVVW TGp4dDh0QzlTY2VuKzRUakNneDdsM0drZi9pSm1LOHgvbTd6UVB2RUJWL1M5dTQ4NmF1 c1pHbXBBUCtoR2dvdVFEdHhZOERoeWxGKzQ2ODBPU1NNeDhoc3daRjNudDgrVUlnSW15 cnA5bHJnbnZHRUJjM0xZRzg4cWNuQldaa2dPU111Y1BVZS9ZL3Fhc1crUUQydTJPdWFw akdYcTJoOGJRUWlaaDBpOGtZRFIrU1ZKdlhvVUVGWDhJM3QxM211QWcwOEF0ckVrNmJs eHZFQmFBQ0hLOXhHcHhrajZtZWxuNE1LeVUvWUpSMmdDc3BWbFVic1JhUmNCcVFYQ0t1 WkNhNWFpd2xTNkJCc3MwQXJOQmtjTk55ME4veEpaK09pb0w3SC9oNm9rdz09IiwKICAg ICJMeVhVQUlkQmFZSFFsbUludj1keWRvZGF0RkZySU1EdGRBU1ZrQXVIanpnZVJaRVZn Z21jZ1hzT25LaGgzUEE4S0RFenRGdDhhOGN3ay9rYUNsNGhXRmtTcmNjbHJXQ1BXTnF5 S1J6WnpSN0VtMUJrLzBmM2FraHRzK2dYOUhEcHVKK3BFK1dNR0NYREdTZy9tVE12R2c2 UXBSb3VOTzhCUUNNRjdraUV0b2pKemVnNXNiWWpNdkcrNDVuelovdDJNdWU4amZ2MDZT SGozOHg3TVVQRDR1M1JZb0I5UUhQdT1rVHEzS3BmUXZLVkFRS1VPL0srVjVOSnRWaGRj OXdIRWtBMmQxTCs1WVhQTzUyeT11NW4wYXJMa1pQaWVkdndKMXF10VZudFBq21VEbHFm YUhDbVJ0eTExTkpCS3dnQnJzN2FId0hqMExqR3NvQ2tzWjUyQmc9PSIKXQo=

#### Activate

#### Activation Code:

WyJNR0VcLzkzRVVFZzhrWk1BUXQyeXB3bDZPVk560WZGRkYzWWVvYnpJTTVVUFhza3VV Ymx2VFI1bkRId3BMXC82cCtPbUNnMnNpV2dVbWFPVU9IN21Rd1RMbnBJalk4RnI5YUJt ZERFWmZiV0VibThRbUdoNHdSSmpWTnY5RzBXNE9Eb2ZLd1c4SzBsTVdoR3hlaVg0MEhG OFNiUFVYdG10cUxwQUpPT2N4bUwxSE1hVnNVUzNqdXRTVUpCWE9LOEdLVWsweTFZMiti bkZEdWI5eE9zc0cwSEFoRVF20XRIU2NTeXoraVdycXo5bUM0dGMxTnJzZitLNkszK3k4 cnN1UDAxZUd4SFRGWkZq0FZLUWRSSXpYT1BBMzM1R2xDTHRBK3NIcHQ1cHdRUHpPMzE0 NV1FUkxiVCtzZUVYaTYzZk1uaGNPSU9yczdwMDZYcDhtdGN2SUJYdz09IiwiVFR5b0Vk MkV1MThTY05HemJmYWJiemZDWm8wMGhaY3pQY1NHT1wvcHFENG1TYmFXZTdKRF1QYkZT YU1TbVhDOG1YaUdPR3dMWkdWOHBBaytFXC9pb5tHTWRkd1RQSDZWN0Y1UitvV31DZ1BL U2hpa2VsbUV5VEd10GZmYWdHVTR4TFVnTFM0NTV6dDVyYWtJeFppSDV2MGVoNUFqeU1K c0cwaEZoM1VnWkFLVmFtT2dhYm1sQnRMQ1R1S2tIK2VCZ3VYS3RPVUhsV294VnNjeXJB OGJqZTNQd1V4dm5HdDU2bVpLdENCTmV10GZiTTFieF1cL3RVRU9jU1pkWFV1VzZ2TFow ZkswQ0VEMHV4S3NpUDNyUmtNZWxJcEhnZV1DejJ1N09yT3hTTm1UTHJWd1hzb0N10VEw U1V4THBpY2V0ZStOckJIWWV5WFwvSmp0K2dQNHR5MGx5dz09II0=

Note: Enter license information and security code, then click "Activate" to get Activation code.

Step 6. **Connect the removable disk back to the orginal computer,** copy the Activation Code from the Text document and paste it into the box of Offline Activation.

Step 7. Then click **Activate** button. Now users should have finished MiniTool Partition Wizard offline register.

嬼 MiniTool Partition	🟂 Offline Activation 🛛 🗙	]	-	o x
<u>General</u> <u>View</u> <u>D</u>	Unable to connect to server. Please follow the steps to active your copy manually!	ledia	Mini T	ß
Wizard	Step 1. Submit the license information to one of the following addresses:		Туре	
Migrate OS to	URL 1: http://www.minitool.com/offlineactivation/active.php URL 2: http://www.partitionwizard.com/offlineactivation/active.php URL 3: http://pas2.eofsoft.com/offlineactivation/active.php		GPT (R	ecovery
🛱 Copy Disk Wizi	License Information:		🔲 GPT (Ef	FI Syster
Partition Recov	WwogICAgIKZIMzRPZHBIVWIVbGNMdlBoMks5dnp1MGJRa2JsVmxBdDlQN0haaHpBeVVWTGp4dDh0QzITY2VuKzRUakNneD dsM0drZi9p5m1LOHqvbTd6UVB2RUJWL1M5dTQ4NmF1c1pHbXBBUCtoR2dvdVFEdHhZOERoeWxGKzQ2ODBPU1NNeDhoc3d		GPT (R	eserved
Convert Disk	aRjNudDgrVUlnSW15cnA5bHJnbnZHRUJJM0xZRzg4cWNuQldaa2dPUllIYlBVZS9ZL3Fhc1crUUQydTJPdWFwakdYcTJoOGJRU WlaaDBpOGtZRFIrU1ZKdlhvVUVGWDhJM3QxM21lQWcwOEF0cKVrNmJseHZFQmFBQ0hLOXhHcHhrajZtZWxuNE1LeVUvWUp		🔲 GPT (D	ata Parti
<ol> <li>Convert GPT D</li> </ol>	SMmdDc38WbFVic1JhUmNCcVFYQ0t1WkIhNWFpd2xTNkJCc3MwQXJOQmtjTk55ME4veEpaK09pb0w3SC9oNm9rdz09IwK ICAqICJMeVhVQUlkQmFZSFFsbUludjlkeWRvZGF0RkZySU1EdGRBU1ZrQXVIanpnZVJaRVZnZ2ljZlhzT25LaGqzUEE4S0RFenR		🗖 GPT (R	ecovery
Clean Disk	ddbhloGN3ay9rYUNsNGhXRmtTcmNjbHJXQlBXTnF5SJbWnpSN0VtMUJrLzBmM2FraHRzK2dYOUhEcHVKK3BFK1dNR0NVRE dTZy9tVE12R2c2UXBSb3V0TzhCUUhnRjdraUVbb2pKemVnlXNIVWpNdkcrNDVuelovdDJNdWU4amZ2MDZTSGozOHq3TVV		GPT (D	ata Parti
🖉 Wipe Disk	QRDR1MIJZb0ISUUhQdTlrVHEzS38mUXZLVkFRS1VPL0srVjVOSnRWaGRjOXdIRWtBIMmQxTCs1WVhQTzUyeTl1WV4VYXJ MalpQaWVkdndKMXF10VZudFBaZlVEbHFmYUhDbVJ0eTEXTkpCS3dnQnJzN2FId0hgMExqR3NQ2tzWjUyQmC9PSIKXQo=		GPT (D	ata Parti
前 Delete All Part	שמוללמאא אמוומגיש אבדסא במתבפלדא בחוררוו דמווממא מפו בא דאריבים וולנוז באל בתמוולש באלרכוא לאלוור באבדעי לה – אומו ללמאא אמוומגיש אבדסא במתבפלדא בחוררוו דמווממא מפו בא דאריבים וולנוז באל בדמטוולש באלרכוא לאלוור באבדעי לה		GPT (Da	ata Parti
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Surface Test	VdoR3hlaVg0MEhGOFNUFVV3LaUtwvQUpPT2N4bUwxSE1VvVUzVVUpCWE9LOEdLVWsweTFZMitibkZedWI5eE 9zcdcwsEFoRVF20XRUI2NTeXoraVdvXX5bUM0dGMXTnJzZitLNkszK3k4cnNIUDAvZUd4SFRGWKZq0FZLUWRSSXpYT1BBM			
Partition Recov	zM1R2xDTHRBK3NIcHQ1cHdRUHpPMzE0NVIFUkxiVCtzZUVYaTYzZk1uaGNPSU9yczdwMDZYcDhtdGN2SUJYdz09IiwiVFR5b0			
Disk Properties	VkMkV1MThTY05HemJmYWJiemZDWm8wMGhaY3pQYINHTlwvcHFENGITYmFXZTdKRFIQYkZTYU1TbVhDOGIYaUdPR3dMW kdW0HBBaytFXC9pbStHTWRkd1RQSDZWI0V1Uitv/3IDZIBLU2hpa2VsbUV5VEd10CZmYWdHVTR4TFVnTFM0NTV6dDVyY			•
<ul> <li>Data Recovery</li> <li>0 Operations Pen</li> </ul>	WtJeFppSDV2MGVoNUFqeU1Kc0cwaEZoMlVnWkFLVmFtT2dhYm1sQnRMQlR1S2tIX2VCZ3VYS3RPVUhsV294VnNjeXJBOGJ qZTNQdlV4dm5HdDU2bVpLdENCTmV1OGZITTFieFlcL3RVRU9jU1pkWFV1VzZZTFowZkswQ0VEMHV4S3NpUDNyUmtNZWXJ cEhnZVIDejJ1N09yT3hTTmlUTHJWdlhzb0NlOVEwUIV4THBpY2V0ZStOckJIWWV5WFwvSmp0K2dQNHR5MGx5dz09JI0=		S(I F:VMWA B ( 165.8 GB	
GPT/Primary	<u>A</u> ctivate <u>C</u> ancel		0 1	<b>/ 8</b>

#### Step 8. Click OK.

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pply Undo Discard	Data Recovery	Partition Recovery Dis	k Benchmark Space Analyz	zer Data Backu	ıp	Bootable Media	Manual Register
Wizard		Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/H	Ŭ	Disk 1 (WDC)	ND5000AAKX-08U6AA0 SAT	TA, GPT, 465.76	5 GB)		
🕒 Copy Partition Wizar	rd	*:Recovery	300.00 MB	11.07 MB	288.93 MB	NTFS	GPT (Recove
Copy Disk Wizard		*:	100.00 MB	30.99 MB	69.01 MB	FAT32	GPT (EFI Sy
Partition Recovery W	Vizard	*:	128.00 MB	128.00 MB	0 B	Other	GPT (Reserv
Convert Disk	$\odot$	C:SYSTEM 🥬	Thank you	×	55.59 GB	NTFS	GPT (Data P
Convert GPT Disk to	MBR Disk	*:	Thank you for your	registration	464.54 MB	NTFS	GPT (Recov
Clean Disk	$\odot$	D:PROGRAMS		regisciación	72.32 GB	NTFS	🔲 GPT (Data P
🖉 Wipe Disk		E:PERSONAL	ОК		3.94 GB	NTFS	🔲 GPT (Data P
Delete All Partitions		I:	2.29 GB	2.29 GB	0 B	Other	🔲 GPT (Data P
Check Disk	$\odot$	G:FILES	11.52 GB	425.58 MB	11.10 GB	FAT32	🔲 GPT (Data P
昌 Align All Partitions		F:VMWARE	165.76 GB	59.00 GB	106.76 GB	NTFS	🗖 GPT (Data P
Surface Test							
Partition Recovery							
Disk Properties							
🕀 Data Recovery							
0 Operations Pending			overy (FAT32) (Other) MB ( 100 MB ( 128 MB	C:SYST (NT 98.6 GB 853	FS) D:PROG MB ( 100.0 GI	E:PERS I:(Other) G:FIL 86.2 G 2.3 GB 11.5	

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# 14. Create Partition

#### 14.1 About Create Partition

**Create Partition** feature enables users to create a new volume with specified unallocated space. For users who have two <u>partitions</u> on the same drive, with one for the operating system and the rest one for personal data, perhaps the partitions can't meet their demands for data management. In this case, Create Partition feature make it easy to manage various data by category.

#### 14.2 How to Create Partition on Windows 10/8/7

For Windows 10/8/7 user, they can use a free partition manager - MiniTool Partition Wizard to create partition easily. Step-by-step guide is shown below:

Step 1. Choose one of the following ways to activate Create Partition function:

• Click **Create Partition** from the left menu after selecting the unallocated space.

•	Right-click on the una	allocated space and	choose Create	option from	drop-down menu.
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✓ < ×		mic Disk Wizard Help	-	luzor			Bootable Med	ni Too
Wizard		Partition	Capacity	Used	Unused	File System	יד די	ype
Migrate OS to SSD/HD W           Copy Partition Wizard           Copy Disk Wizard		*:System Reserved C: *:	549.00 MB 30.00 GB 469.46 GB	399.32 MB 19.07 GB 0 B	149.68 MB 10.93 GB 469.46 GB	NTFS NTFS Unallocat		Primary Primary Logical
Partition Management Create Partition Wipe Partition Check Partition Surface Test Partition Properties	<ul> <li>Image: A start of the start of</li></ul>	Disk 2 (VMware, VMw      :      Dynamic Disk ("Disk :      E:      ::	3072.00 GB	0 B	3072.00 GB 5, MBR, 256.00 GI 127.97 GB 7.74 MB	Unallocal 3") NTFS Ext2		Logical Simple Simple
Data Recovery		Disk 1     MBR     500.00 GB     System Res     549 MB (Use	C:(NTFS) 30.0 GB (Us) 469	allocated) .5 GB				
		Disk 2 MBR 3.00 TB         Unallocated 3072.0 GB           Disk 3 MBR 256.00 GB         E:(NTFS) 128.1 GB,Sir	Data Recov	st	(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB		
GPT/Primary Dogical	Simple	Spanned Striped	<ul> <li></li></ul>		cated			<b>7</b> 7

Step 2: In this interface, you are expected to confirm parameters including Partition Label,

Partition Type, Drive Letter, File System, Cluster Size, Partition Volume, Partition Location and Partition Alignment Method.

#### Kind Remind:

- The partition alignment option is only available when users are creating the first partition on an MBR disk.
- Aligning to cylinder is used in older OS versions like Windows XP and Windows Vista; newer Microsoft OS versions and Linux use the MB alignment by default.
- For a logical partition aligning to cylinder, there will be 8 MB unallocated space; but for a primary partition aligning to cylinder, there won't be 8 MB unallocated space.

With no change here, all these parameters are kept by default. After that, click **OK** button to go back to the main interface of the software.

🟂 MiniTool Partition Wizard Pro 11						– 🗆 ×
General View Disk Partition D	ynamic Disk Wizard Help					Mini Tool
Apply Undo Discard Data Rec	overy Partition Recovery Disk Benchma	rk Space Analyzer			Bootable	Media Manual
Wizard 🔿	출 Create New Partition			× File Sy	stem	Туре
Migrate OS to SSD/HD Wizard     Copy Partition Wizard     Copy Disk Wizard	Please specify the size and th	e location for the new parti	ition.	1	ITFS ITFS llocated	Primary     Primary     Logical
Partition Management	Partition Label: Create As: File System: NTFS			Una	llocated	
Wipe Partition     Check Partition	Size And Location	Cluster Size:	Derauit		ITFS	Simple
Surface Test Partition Properties	2048.00 GB (Used:0.00 MB)				Ext2	Simple
Data Recovery	Unallocated Space Before:	0.00	•	-		• •
0 Operations Pending	Partition Size: Unallocated Space After:	2048.00 0.00	•			
	Partition Align to: MB Cylinder Cylinder Disk 3 MBR E:(NTFS) 28 1 CB Simple			(Unallocated)		
GPT/Primary Logical Sim	•	ored 🔲 RAID5 🔲 Unal	8 MB,Simple	127.9 GB		<b>() Y ()</b>

#### **Recommended:**

- <u>Primary Partition vs. Logical Drive: Their Exact Features</u>
- What Is FAT32 Partition Size Limit and How to Break It?

Step 3: users can preview a new partition will be created. Click **Apply** button on the upper left corner to confirm the creation.

neral View Disk Pa	rtition Dy	namic Disk Wizard Help					Min	ni Too
∕ ∽ X	into							
oply Undo Discard	Data Reco	very Partition Recovery Disk Be	nchmark Space Ana	lyzer			Bootable Media	a Manu
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	n Tyj	pe
Migrate OS to SSD/HD	Wizard	C:	30.00 GB	19.07 GB	10.93 GB	NTES	5 🗖	Primary
Copy Partition Wizard		*:	469.46 GB	0 B	469.46 GB	Unalloca	ted 🗖	Logical
Copy Disk Wizard		🛶 Disk 2 (VMware, VM	ware Virtual S SAS, I	MBR, 3.00 TB)				
Change Partition	$\bigcirc$	F:	2048.00 GB	128.40 MB	2047.87 GB	NTFS	5	Primary
Move/Resize Partition		*:	1024.00 GB	0 B	1024.00 GB	Unalloca	ited 🗖	Logical
Extend Partition		Synamic Disk ("Disk	2 VMwaro VMwaro	Virtual C CAC	MRP 256 00 CF	ויין		
S Merge Partition								
C Split Partition		E:	128.08 GB	108.01 MB	127.97 GB	NTFS	5 🗖	Simple
🖭 Change Cluster Size		*:	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Convert NTFS to FAT								
品 Set Partition as Logical		, 						
Partition Management	۲	Disk 1 MBR System Re: 500.00 GB 549 MB (1)		allocated) .5 GB				
Delete Partition								
Format Partition		Disk 2						
Copy Partition		MBR 3.00 TB 2048.0 GB	(Used: 0%)			(Unalic 1024.0	ocated) ) GB	
昌 Align Partition								
Wipe Partition		Disk 3 MBR E:(NTFS)			(Ext2)	(Unallocated)		
E]) Set Label		256.00 GB 128.1 GB,S	imple		8 MB,Simple			

#### Kindly Remind:

- MiniTool Partition Wizard can be used to create FAT/FAT32/exFAT/NTFS/Ext2/Ext3/Ext4/Linux Swap/Unformatted partitions.
- This software is also helpful in creating FAT32 partitions larger than 32 GB, which can't be done in Disk Management. If there is no unallocated space available for creation, try <u>Move/Resize Partition</u> to release some free space, and then create a new partition.
- For Windows Server users, <u>MiniTool Partition Wizard Server</u> is the right choice.

# 15. Delete Partition

### 15.1 About Delete Partition

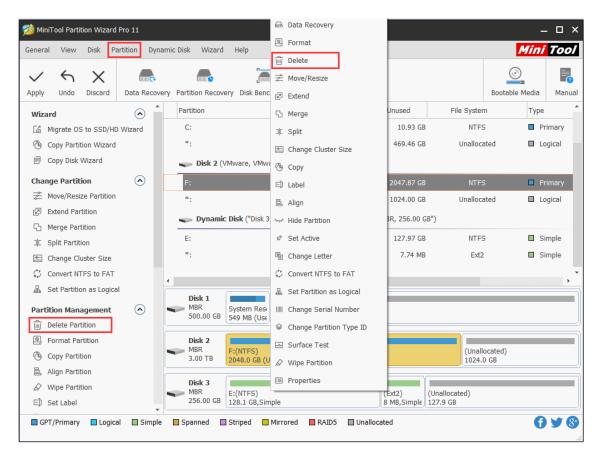
**Delete Partition** feature enables users to remove a specified partition. For users who want to remove all partitions on the same disk, <u>Delete All Partitions</u> is more convenient.

Note: In Windows 10/8/7, if users plan to delete system partition or the partition which contains page files, crash dump files, and hibernation files, please use MiniTool Partition Wizard Professional Edition to create a bootable disc, boot computer from this disc and then delete that partition in WinPE environment. For more information, click here.

## 15.2 How to Delete Partition

Step 1. Choose a preferred way to activate partition deleting feature among the listed ones:

- Choose target partition and then click **Delete Partition** from left action panel.
- Select partition to be removed from the disk and click **Partition** on the menu bar, then select **Delete**.
- Right click target partition and click **Delet**e from the context menu.



Step 2. Click Apply and tap Yes button to let the software perform deleting operation.

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pply Undo Discard Data Re	covery Partition Recovery Disk Ben	chmark Space Ana	lyzer			Bootable Med	lia Manu
Wizard 🔿	Partition	Capacity	Used	Unused	File System	n T	уре
🕼 Migrate OS to SSD/HD Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 MB	NTFS	; 🗖	Primary
Copy Partition Wizard	C:	30.00 GB	19.07 GB	10.93 GB	NTES	5 🗖	Primary
Copy Disk Wizard	*:	469.46 GB	0 B	469.46 GB	Unalloca	ated	Logical
Partition Management	Sisk 2 (VMware, VMw	vare Virtual S SAS, I	MBR, 3.00 TB)				
Create Partition	*:	3072.00 GB	0 B	3072.00 GB	Unalloca	ted	Logical
	<b>Dynamic Disk (</b> "Disk 3	3, VMware, VMware	Virtual S SAS	, MBR, 256.00 GE	B")		
Check Partition	E:	128.08 GB	108.01 MB	127.97 GB	NTES	;	Simple
Surface Test	*.	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Partition Properties		0100 110	200100 100	7171110	LAL		ompie
📾 Data Recovery	•						•
1 Operations Pending - 1. Delete: (F: ( Disk 2 Partition	Disk 1 MBR 500.00 GB System Rest 549 MB (Use	C:(NTFS) 30.0 GB (Us) 469	allocated) .5 GB				
	Disk 2 MBR 3.00 TB Unallocated 3072.0 GB	)					
	Disk 3			(Ext2)	(Unallocated)		

With the help of MiniTool Partition Wizard tutorial, users can easily get unneeded partition removed.

# 16. Format Partition

# 16.1 About Format Partition

With **Format Partition** feature, users can clear partition data and then reconfigure parameters for the specified partition so as to meet actual demands.

Warning: Formatting will destroy all data in the target partition. If the system partition or boot partition is formatted, the current OS will fail to boot properly.

## 16.2 How to Format Partition

Step 1. Launch MiniTool Partition Wizard to get the following interface. Then, select the partition which needs formatting and choose **Format Partition** feature from the left panel.

MiniTool Partition Wizard Pro 1	.1		<b></b>	Data Recovery				_ 🗆 ×
General View Disk Partition	n Dynar	mic Disk Wizard Help	0	Format			Min	i Tool
	_		Ŵ	Delete			0	
$\checkmark$ $\land$ $\times$	inno,	in the second se	ţ	Move/Resize			( <u>)</u>	
Apply Undo Discard Data	ta Recover	ry Partition Recovery Disk Bench	Ø	Extend			Bootable Media	Manual
Wizard		Partition	5	Merge	nused	File System	m Typ	ie
🕼 Migrate OS to SSD/HD Wiza	ard	C:	3 C	Split	10.93 GB	NTE	s 🗖	Primary
line Copy Partition Wizard		*:	-9	Change Cluster Size	469.46 GB	Unalloc	ated 🔲	Logical
Copy Disk Wizard		🛶 Disk 2 (VMware, VMwar	6	Сору				
Change Partition	•	F:	Ē	Label	047.87 GB	NTE	s 🗖	Primary
Move/Resize Partition		*:	5	Align	.024.00 GB	Unalloc	ated 🔲	Logical
Extend Partition S Merge Partition		Dynamic Disk ("Disk 3,	Q	Check File System	t, 256.00 G	B")		
Merge Partition     Split Partition		E:	Q	Explore	127.97 GB	NTE	s 🗖	Simple
Change Cluster Size		*:	پەرىر	Hide Partition	7.74 MB	Ext2	2	Simple
Convert NTFS to FAT			\$	Set Active				•
뮲 Set Partition as Logical		Disk 1	Pe	Change Letter				,
Partition Management	$\odot$	MBR System Res	\$	Convert NTFS to FAT				
Delete Partition		500.00 GB 549 MB (Use	봆	Set Partition as Logical				
Format Partition		Disk 2	ш	Change Serial Number		(Uppell	located)	
Copy Partition		MBR 3.00 TB 2048.0 GB (Us	8	Change Partition Type ID		(Unail 1024.		
昌 Align Partition		Disk 3		Surface Test	)			
		MBR E:(NTFS) 256.00 GB 128.1 GB,Simp	Ø	Wipe Partition	t2) 18,Simple	(Unallocated) 127.9 GB		
	▼ Simple	Spanned Striped N		Properties	<u>,</u>			)   ¥ (8)
	a on the		_		,			

Step 2. Set partition label, file system and <u>cluster</u> size for the selected partition and click **OK**.

neral View Disk Pa	artition Dy	namic Disk Wizard Help						lini Tod
$\checkmark$ 5 X							$\odot$	
oply Undo Discard	Data Reco	very Partition Recovery Disk B	enchmark Space Ana	alyzer			Bootable M	edia Man
Wizard	$\bigcirc$	Partition	Capacity	Used	Unused	File Syster	n	Туре
🕼 Migrate OS to SSD/HD	Wizard	C:	30.00 GB	19.07 GB	10.93 GB	NTES	5	Primary
Copy Partition Wizard		*:	469.46 GB	0 B	469.46 GB	Unalloca	ated	Logical
Copy Disk Wizard		Dick 2 () (Murana ) (	Awara Vietual C.CAC	MDD 2 00 TD)				
Change Partition		prize Format Partition			×	NTE	5	Primary
Move/Resize Partition						Unalloca		Logical
Extend Partition		Formating th	e partition will destro	y the data on th				
Merge Partition		Partition La	hel:			3")		
C Split Partition			em: exFAT			NTES	5	Simple
🖭 Change Cluster Size			Size: Default			Ext2	1	Simple
Convert NTFS to FAT			berduit					
品 Set Partition as Logica	I	Format Partition Tu	torial	ОК	Cancel			
Partition Management	$\bigcirc$			allocated)				
Delete Partition	Ŭ	500.00 GB 549 MB (L	lse∬30.0 GB (Usi∬469	9.5 GB				
Format Partition		Disk 2						
Copy Partition		MBR F:(NTFS) 3.00 TB 2048 0 GE	(Used: 0%)			(Unall 1024.	ocated)	
음 Align Partition		2010.0 GL	(0360.070)			1024.	0.00	
		Disk 3				(), II ()		
EĪ) Set Label		MBR E:(NTFS) 256.00 GB 128.1 GB,	Simple		(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB		

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Step 3. Now users can preview the formatted partition. If it is satisfying, please click **Apply** button at the top to apply the change.

								_	ni Too
✓ ५ X			<u> </u>					<u>ی</u>	
pply Undo Discard Di	ata Reco	very Partition Recov	ery Disk Benchmark Sp	pace Anal	yzer			Bootable Med	ia Manu
Wizard	$\wedge$	Partition	Capaci	ty	Used	Unused	File Syster	n T	ype
🕼 Migrate OS to SSD/HD Wi	zard	C:	30	.00 GB	19.07 GB	10.93 GB	NTFS	3 🗖	Primary
Copy Partition Wizard		*:	469	.46 GB	0 B	469.46 GB	Unalloca	ated 🔲	Logical
Copy Disk Wizard		🥌 Disk 2 (	VMware, VMware Virtual	S SAS, N	IBR, 3.00 TB)				
Change Partition	$\bigcirc$	F:	2048	.00 GB	64.31 MB	2047.93 GB	exFA	т 🗖	Primary
Move/Resize Partition		*:	1024	.00 GB	0 B	1024.00 GB	Unalloca	ated 🗖	Logical
品 Set Partition as Logical		🥌 Dynami	c <b>Disk</b> ("Disk 3, VMware,	VMware	Virtual S SAS,	MBR, 256.00 GI	3")		
Partition Management	$\bigcirc$	E:	128	.08 GB	108.01 MB	127.97 GB	NTES		Simple
Delete Partition		*.		.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Format Partition			0.	.00 MB	203.00 KB	7.74 MD	EXIZ		Simple
Copy Partition		4							
Wipe Partition		Disk 1							
E]] Set Label		MBR 500.00 GB	System Res C:(NTFS)		llocated)				
🖭 Change Drive Letter		500.00 GB	549 MB (Use 30.0 GB (	USI 469.	5 GB				
		Disk 2							
Change Serial Number		MBR 3.00 TB	F:(exFAT) 2048.0 GB (Used: 0%)				(Unall 1024.	ocated) ) GB	
뉴서 Hide Partition									
☆ Set Active		Disk 3	E:(NTFS)			(Ext2)	(Unallocated)		
Check Partition	$\bigcirc$	256.00 GB	128.1 GB,Simple			8 MB,Simple			

Corresponding MiniTool Partition Wizard tutorial for partition reformatting is demonstrated as above.

# 17. Merge Partition

### 17.1 About Merge Partition

**Merge Partition** function helps users merge two adjacent partitions. It is noteworthy that this function only works for NTFS partitions. If the target partition is formatted with FAT12/FAT16/FAT32 <u>file system</u>, please use **Convert FAT to NTFS** function of the software to convert the partition to NTFS at first.

## 17.2 How to Merge Partition

Please view the MiniTool Partition Wizard tutorial for partition incorporation here:

Step 1: Choose a preferred way to start partition merging operation from the listed ones:

- Select the source partition and click **Merge Partition** from left action panel.
- Select the source partition and click **Partition** from the menu bar. Then, click **Merge** from the drop-down menu.

<u>ঠ</u> Mir	niTool Partition Wizard	d Pro 11						Data Recovery					– 🗆 ×
Genera	al View Disk F	Partition D	ynamic	Disk Wizard	Help			Format			<u>//</u>	16	i Tool
		_		_	-	-	Ŵ	Delete					_
$\checkmark$	$\leftarrow \times$	ími	•	ínne 🔥	<u>í</u>	ð,	¦₿	Move/Resize			() 		
Apply	Undo Discard	Data Rec	overy	Partition Recover	y Disk Bend	chmark Spa	Ø	Extend			Bootable M	edia	Manual
Wiza	ard	$\bigcirc$	^	Partition		Capacity	ß	Merge		File Syst	em	тур	ie ^
Cá	Migrate OS to SSD/H	D Wizard		*:		469.4	JC	Split	E	3 Unallo	cated		Logical
Ċ	Copy Partition Wizard	ł		Disk 2 (VN	Aware, VMw	are Virtual :		Change Cluster S	Sizo				
P	Copy Disk Wizard			F:	-	1024.3			5126	3 NT	F.C.		GPT (Data
Cha	nge Partition	$\bigcirc$					0	Сору					
l ₽	Move/Resize Partition	ı		G:		1023.		Label		3 NT			GPT (Data
Z	Extend Partition			*:		1024.0	001	Align		3 Unallo	cated		GPT
5	Merge Partition			Synamic Dynamic	Disk ("Disk 3	3, VMware,	Q	Check File System	m (	GB")			
쾨	Split Partition			E:		128.	Q	Explore		3 NT	FS		Simple
-0	Change Cluster Size			*:		8.0	ንተኛ	Hide Partition	6	3 Ex	t2		Simple
Ç,	Convert NTFS to FAT							Change Letter					•
Part	ition Management	$\bigcirc$	•					Convert NTFS to	EAT				•
	Delete Partition	$\cup$		Disk 1									]
0	Format Partition				System Res 549 MB (Use			Change Serial Nu					
6	Copy Partition						8	Change Partition	Type ID	)(			)
	Align Partition			Disk 2 GPT	F:(NTFS)		-14	Surface Test		(Una	llocated)		
	Wipe Partition			3.00 TB	1024.1 GB (U	Jsed: 0%)	Ø	Wipe Partition		1024	4.0 GB		
ED	Set Label			Disk 3				Properties	1				
œ	Change Drive Letter				E:(NTFS) 128.1 GB,Sin	nnle	_		(Ext2) 8 MB,Simple	(Unallocated)			
	Change Partition Typ		•			· · · · · ·	_	_		127.5 60			
G	PT/Primary 🔲 Logic	cal 🔲 Sim	ple [	Spanned	Striped	Mirrored	F	RAID5 🔲 Unallo	cated			9	) У (8)

• Right click source partition and click **Merge** from the drop-up menu.

Step 2: In this interface, users can find the software has specified the selected partition to be expanded already. So users only need to click **Next** button to continue.

	ett				Mini	
/ ~ X	Merge Partition			×	<u></u>	
oply Undo Discar	What to expand	i n you like to expand.		pota	able Media	Manu
Wizard	Select partition	r you like to expand.			Туре	
Migrate OS to SSD Copy Partition Wiz	note that it is pos		ill be expanded to include adjacent partit f you like to merge a FAT12/16/32 partition, pl irst.		Lo	gical
Copy Disk Wizard	Disk 2				🗖 GF	PT (Data
Change Partition	GPT 3.00 TB		:(NTFS) (Unallocated) 023.9 GB (Used: 0%) 1024.0 GB		GF	PT (Data
Move/Resize Partit	Disk	Capacity	Model		GF	РТ
☑ Extend Partition	Disk 1	500.00 GB	VMware, VMware Virtual S S/	AC		
Merge Partition	DISK 1	500.00 GB	VMWare, VMWare Virtual 5 5/			
C Split Partition	Disk 2	3072.00 GB	VMware, VMware Virtual S S/	AS	Si	mple
Change Cluster Siz					Si	mple
Convert NTFS to F						
Partition Managemer						
Delete Partition						
Format Partition						
Copy Partition						
昌 Align Partition				ed)		
Wipe Partition						
E]) Set Label	Merge Partition	n Tutorial	< Back Next >	Cancel		
Change Drive Lette	r	256.00 GB 128.1 GB, Simple	8 MB,Simple 12	7.9 GB		

Step 3: Here, choose the partition which will be included in the previously chosen partition and name the folder which will contain the content of the selected partition. After that, click **Finish** button to go back to the main interface of the software.

ener	al View Disk I	Partition	Dynamic	Disk Wizard	Неір							Mini	Τοο
$\checkmark$	← ×	🖄 Merge F	Partition								×	0	
\pply	Undo Discar	What to									ootal	ble Media	Manu
Wiz	ard	Select	partition	that will be inclu	uded to the targe	et one.						Туре	
6	Migrate OS to SSD Copy Partition Wize		ected o				on. This partition e second partition						ogical
_	Copy Disk Wizard	GP	<b>sk 2</b> PT DO TB	F:(NTFS) 1024.1 GB (Use	ed: 0%)	G:(NTF 1023.9	S) GB (Used: 0%)		Jnallocated) 024.0 GB				PT (Data
1	Move/Resize Partit Extend Partition	Disk			Capacity	~	Model				Ĩ	G	PT
2 C	Merge Partition	Disk 1			500.00 GB		VMwa	re, VMwa	ire Virtual S S/	S			
	Split Partition	Disk 2			3072.00 GB		VMwa	re, VMwa	re Virtual S SA	s		□ s	imple
-0	Change Cluster Siz											∎ s	imple
ŝ	Convert NTFS to F												
Par	tition Managemer												,
Ŵ	Delete Partition												
0	Format Partition												
٢	Copy Partition		<b>C</b> 1 1			1							
	Align Partition				ent of the select	ea partit	ion:				ed)		
Ø	Wipe Partition	merged_p	paruuon_	content									
EÌ	Set Label	? Merge	Partition	n Tutorial				< Back	Finish	Cance	el		
Ē	Change Drive Letter			256.00 GB	128.1 GB,Simple	9		8	MB,Simple 12	7.9 GB	.::		
$\Diamond$	Change Partition Tyr	ID ID	• I						·				

Step 4: In the main interface, check the partition merging effect. If it is as expected, users can click **Apply** button in the upper left corner to confirm.

General View Disk Pa	rtition Dy	namic Disk Wizard	Help				Min	<mark>i</mark> Tool
✓ ५ X			<b></b>				$\odot$	
Apply Undo Discard	Data Reco	overy Partition Recove	ry Disk Benchmark Sp	ace Analyzer			Bootable Media	Manu
Wizard	$\odot$	Partition	Capacit	y Used	Unused	File System	п Тур	е
Migrate OS to SSD/HD	Wizard	C:	30.	.00 GB 19.07 GE	B 10.93 GB	NTFS		Primary
Copy Partition Wizard		*:	469.	.46 GB 0 B	8 469.46 GB	Unalloca	ted 🔲	Logical
Copy Disk Wizard		Disk 2 (V	Mware, VMware Virtual	S SAS, GPT, 3.00 TB	)			
Change Partition	$\bigcirc$							
🚔 Move/Resize Partition		F:		.00 GB 416.95 MB				GPT (Data
Extend Partition		*:	1024.	.00 GB 0 E	B 1024.00 GB	Unalloca	ted 🔲	GPT
Merge Partition		🛶 Dynamic	Disk ("Disk 3, VMware,	VMware Virtual S SA	S, MBR, 256.00 G	B")		
] C Split Partition		E:	128.	.08 GB 108.01 MB	B 127.97 GB	NTFS		Simple
💼 Change Cluster Size		*:	8.	00 MB 263.00 KB	B 7.74 MB	Ext2		Simple
${\mathcal{C}}_{N}^{F}$ Convert NTFS to FAT								
Partition Management	$\bigcirc$	•						•
Delete Partition	Ŭ	Disk 1	System Res C:(NTFS)	(Unallocated)				
Format Partition		500.00 GB	549 MB (Use 30.0 GB (I					
Copy Partition		Disk 2						
을 Align Partition		GPT	F:(NTFS)			(Unallo		
		3.00 TB	2048.0 GB (Used: 0%)			1024.0	GB	
E]] Set Label		Disk 3						
Change Drive Letter		MBR 256.00 GB	E:(NTFS) 128.1 GB,Simple		(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB		
Change Partition Type	TD	× [						

Tip: To merge C drive and other partition, for a successful boot, users are strongly suggested using <u>Extend Partition</u> feature of <u>MiniTool Partition Wizard Bootable Edition</u> to do this job.

# 18. Split partition

#### 18.1 About Split Partition

**Split Partition** feature allows users to split one big partition into two smaller partitions without data loss. If users have got a big partition which has a lot of free space, they can use this feature to divide it into multiple partitions for a better data classification.

#### 18.2 How to Split Partition

To successfully get a partition split with this partition manager, users need to strictly follow the MiniTool Partition Wizard tutorial below:

Step 1. From the main interface of this partitioning software, select the partition to split, and then click **Split Partition** from the action panel OR click **Split** from the drop-down list of **Partition** menu.

eneral View Disk	Partition Dynamic Disk V	Vizard Help					Mil	ni Tool
V S X	⊯ Move/Resize ⊠ Extend	covery Disk Benc	hmark Space And	haar			Bootable Medi	a Manua
Apply Undo Discar	다 Merge	COVERY DISK BEIIC	Capacity	Used	Unused	File Syster		
Migrate OS to SSD	기다 Split		469.46 GB	0 B	469.46 GB	Unalloca		Logical
Copy Partition Wiz	🔒 Data Recovery				105.10 05	ondiroct		Logical
Copy Disk Wizard	🕭 Сору	2 (VMware, VMwa						
Change Partition	Q Explore	-	1024.11 GB	207.99 MB	1023.90 GB	NTES		GPT (Data
Move/Resize Partit		-	1023.89 GB	207.95 MB	1023.69 GB	Unalloca		GPT (Data
Extend Partition Merge Partition	🔟 Delete	amic Disk ("Disk 3	1024.00 GB , VMware, VMwar	0 B e Virtual S SAS,	1024.00 GB , MBR, 256.00 G		ated	GPT
JE Split Partition	邑 Align		128.08 GB	108.01 MB	127.97 GB	NTES	5 🗖	Simple
E Change Cluster Siz	Format		8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Convert NTFS to F	⊑⊉ Label							
Partition Managemer	🖷 Change Letter							•
Delete Partition	Check File System	System Res	C:(NTFS) (Un	allocated)				
Format Partition	🗘 Convert FAT to NTFS			0.5 GB				
Copy Partition	Convert NTFS to FAT							
昌 Align Partition		F:(NTFS) 1024.1 GB (U	sed: 0%)	G:(NTFS) 1023.9 GE	3 (Used: 0%)	(Unall 1024.0	ocated) ) GB	
✓ Wipe Partition EÎ Set Label	Modify 🕨		,			Λ		
Change Drive Lette		E:(NTFS) GB 128.1 GB,Sim	nlo		(Ext2) 8 MB,Simple	(Unallocated)		
GPT/Primary			Mirrored 🔲 RA	D5 🔲 Unallo	<u>,                                    </u>	127.9 GD	(	•

Step 2. Drag the slider bar leftwards or rightwards to determine the size of the original partition and new partition. After that, click **OK** button to go back to the main interface of the software.

Tip: Read the post <u>No Fre</u>	e MBR Slots if MiniTool Partition Wizard cannot split t	he partition.
🚧 MiniTool Partition Wizard Pro 11		×
General View Disk Partition Dynami	Disk Wizard Help	Mini Tool
Apply Undo Discard Data Recovery	Partition Recovery Disk Benchmark Space Analyzer	Sootable Media
Wizard 🔿 📩	Partition Capacity Used Unused File System	Туре
Migrate OS to SSD/HD Wizard	*: 469.46 GB 0 B 469.46 GB Unallocat	ted 🔲 Logical
🙆 Copy Partition Wizard		_
Copy Disk Wizard	💋 Split Partition 🛛 🗙 🔤	
Change Partition	NTFS	🗖 GPT (Data
⇒ Move/Resize Partition	Please specify the size and location for the new partition.	
Extend Partition	Unallocat	ted 🔲 GPT
C Merge Partition	B")	
]C Split Partition	512.20 GB 511.91 GB NTFS	Simple
Change Cluster Size	Partition Size Ext2	Simple
${}^{\prime * r}_{N q }$ Convert NTFS to FAT	Original Partition Size: 512.20 GB 🗸	•
Partition Management	New Partition Size: 511.91 🖨 GB 💌	•
Delete Partition	Split Partition Tutorial     OK     Cancel	
S Format Partition		
Copy Partition	Disk 2	
各 Align Partition	GPT F:(NTFS) G:(NTFS) (Unallo	
	3.00 TB 1024.1 GB (Used: 0%) 1023.9 GB (Used: 0%) 1024.0	GB
E]) Set Label	Disk 3	
🖷 Change Drive Letter	MBR         E:(NTFS)         (Ext2)         (Unallocated)           256.00 GB         128.1 GB,Simple         8 MB,Simple         127.9 GB	
GPT/Primary Logical Simple	Spanned Striped Mirrored RAIDS Unallocated	(† ¥ (§

Step 3: Back to the main interface, users can see that original partition has been split into two partitions. If certain preview effect is satisfying, click **Apply** button to take effect.

くち X								
pply Undo Discard	Data Recov	ery Partition Recovery Di	sk Benchmark Space Ana	lyzer			Bootable Med	ia Manu
Wizard		Partition	Capacity	Used	Unused	File Systen	n T <u>i</u>	уре
<ul> <li>Migrate OS to SSD/HD</li> <li>Copy Partition Wizard</li> </ul>	Wizard	Sisk 2 (VMware	e, VMware Virtual S SAS,	GPT, 3.00 TB)				
Copy Disk Wizard		F:	512.20 GB	207.99 MB	512.00 GB	NTES	; 🗖	GPT (Data
EP COPY DISK WIZO'U		H:	511.91 GB	80.40 MB	511.83 GB	NTFS		GPT
Change Partition	$\bigcirc$	G:	1023.89 GB	207.95 MB	1023.69 GB	NTFS		GPT (Data
Move/Resize Partition		*:	1024.00 GB	0 B	1024.00 GB	Unalloca	ited 🔲	GPT
Extend Partition		Dynamic Disk	("Disk 3, VMware, VMware	Virtual S SAS	MBR, 256.00 GB	")		
Merge Partition								
C Split Partition		E:	128.08 GB	108.01 MB	127.97 GB	NTFS	_	Simple
Change Cluster Size		*:	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Convert NTFS to FAT								
Partition Management	$\odot$		m Res( C:(NTFS) (Un 18 (Use 30.0 GB (Us) 469	allocated)				
Format Partition		50000 05 [349]	10 (USE) 30.0 GB (USE) 409	.3 GB				
Copy Partition		Disk 2						
昌 Align Partition		GPT F:(NT 3.00 TB 512.2		G:(NTFS) ed: 1023.9 G		(Unallo 1024.0		
Wipe Partition			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
E]) Set Label		Disk 3 MBR E:(NT	ES)		(Ext2) (	Unallocated)		
🖺 Change Drive Letter			GB,Simple		8 MB,Simple 1			

# 19. Move/Resize Partition

## 19.1 About Move/Resize Partition

**Move/Resize Partition** is capable of changing partition size and location in Windows with ease. It helps:

1. Enlarge a small partition or shrink a large partition when Windows Disk Management tool does not offer **Extend Volume** and **Shrink Volume** features.

- 2. Extend or shrink a FAT partition in Windows Vista, Windows 7, Windows Server 2008, etc.
- 3. Extend a partition to the left contiguous unallocated or free space.
- 4. Extend a primary partition to contiguous free space.
- 5. Move unallocated or free space to be contiguous to the partition users need to extend.

### 19.2 How to Move/Resize Partition

In general, **Move/Resize Partition** contains 3 operations – shrink partition, extend partition, and move partition. Let's see these operations in detail.

Step 1. After successful installation, please launch MiniTool Partition Wizard to get its main interface.

Step 2. Select the partition to operate and activate **Move/Resize Partition** from the left action panel or choose **Move/Resize** from right-click menu.

eneral View Disk Part	tition Dyna	amic Disk Wizard Help					Mini	<b>T</b> 00
< 5 X			5 🚔				0	
pply Undo Discard	Data Recov	ery Partition Recovery Disk Ben	chmark Space An	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/HD V	Nizard	🛶 Disk 1 (VMware, VMv	vare Virtual S SAS,	MBR, 500.00 G	B)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	🗖 Pri	mary
Copy Disk Wizard		C:	59.46 GB	22.03 GB	37.43 GB	NTFS	🗖 Pri	mary
Change Partition	$\bigcirc$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	🗖 Pri	mary
Move/Resize Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	jical
Extend Partition		J:	58.85 GB	114.84 MB	58.74 GB	NTFS	🗖 Log	jical
Merge Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Log	jical
Split Partition		www. Disk 2 (VMware, VMv	vare Virtual S SAS,	MBR, 256.00 G	iB)			
Change Cluster Size Convert NTFS to FAT		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Prin	mary
品 Set Partition as Logical		н:	74.64 GB	97.31 MB	74.54 GB	NTFS	🗖 Pri	mary
Partition Management	$\bigcirc$	*:	68.53 GB	0 B	68.53 GB	Unallocate	d 🗆 Log	jical
Delete Partition	-	•						
Format Partition		Disk 1						
Copy Partition		MBR System Res 500.00 GB 549 MB (Use	C:(NTFS) F:( 59.5 GB (Us 108	NTFS) 3.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used:	J:(NTFS) 0%) 58.8 GB (	) I:(NTFS) (Usi 138.4 GB (Usi	ed: 0%)
Align Partition								
✓ Wipe Partition		Disk 2 MBR G:(NTFS)			H:(NTFS)		(Unallocated)	
E]) Set Label		256.00 GB 112.8 GB (U	sed: 0%)		74.6 GB (Used	0%)	68.5 GB	

Step 3. The blue handle represents partition while the blank area means unallocated space. Do the followings and click **OK** to go back to the main interface.

- To shrink a partition, shorten the handle by dragging the triangles.
- To extend a partition, lengthen the handle to occupy more unallocated space.
- Alternatively, users can manually type specified partition size in MB, GB, or TB.

eneral View Disk P	artition [	Dynamic Disk Wizard Help				Mini Too
yply Undo Discard	Data Re	covery Partition Recovery Disk Bencl	hmark Space Analyzer			Bootable Media         Manu
Wizard		Partition	Capacity Used	Unused	File System	Туре
Image: A state of the sta	$\odot$	Move/Resize Partition  Character the new partition s  Lister the new partition s  U Using Enhanced Data  Size And Location  Size And Location  Attended Struct  Attended Struct	>	the selected partition.  Extend  GB  GB  GB  GB  GB	X NTFS NTFS NTFS NTFS NTFS NTFS	<ul> <li>Primary</li> <li>Primary</li> <li>Primary</li> <li>Logical</li> <li>Logical</li> <li>Logical</li> </ul>
Change Cluster Size Convert NTFS to FAT Set Partition as Logic	al	Unallocated Space After:	68.53	GB 🗸	NTFS NTFS	<ul><li>Primary</li><li>Primary</li></ul>
Partition Management Delete Partition Format Partition Copy Partition	$\odot$		C:(NTFS) 59.5 GB (Us) 108.4 GB (Used	OK Cancel E:(NTFS) d: 0 134.4 GB (Used: 0	Unallocate J:(NTFS 0%) 58.8 GB	
<ul> <li>Align Partition</li> <li></li></ul>		Disk 2 MBR 256.00 GB G:(NTFS) 112.8 GB (Use	ed: 0%)	H:(NTFS) 74.6 GB (Used: (	)%)	(Unallocated) 68.5 GB

To move a partition, drag the whole partition handle towards unallocated space or manually define unallocated space before or after the partition.

eneral View Disk Par	tition I	Dynamic Disk Wizard Help						Mini	100
< 5 ×	imm		5.					٢	
pply Undo Discard	Data Re	covery Partition Recovery Disk Bend	chmark Space A	Analyzer				Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	Fi	le System	Туре	
Migrate OS to SSD/HD						~	1		
Copy Partition Wizard		Move/Resize Partition				×	NTES	Prin	
Copy Disk Wizard			size and specify t	the location of th	e selected (	partition.			<i>'</i>
Change Partition		Using Enhanced Data					NTFS	Prin	
Move/Resize Partition	$\odot$	Size And Location		Move			NTFS	Prin	hary
		Size And Location	_				NTFS	Log	ical
Extend Partition		74.64 GB (Used:97.00 MB)	Σ	)			NTFS	Log	ical
Merge Partition					<b>A</b>		NTFS	🗖 Log	ical
C Split Partition		Unallocated Space Before			GB				
Change Cluster Size		Partition Size:	74.64		GB				
Convert NTFS to FAT		Unallocated Space After:	68.53		GB	•	NTFS	Prin	
品 Set Partition as Logical		🛕 It's recommended to backup yo	ur data before n	noving or resizing	g the partitio	on.	NTFS	🗖 Prin	nary
Partition Management	$\bigcirc$						Unallocate	d 🗖 Log	ical
Delete Partition		Resize/Move Partition Tutorial			<u>O</u> K	<u>C</u> ancel			
Format Partition		Disk 1							
Copy Partition		MBR System Res 500.00 GB 549 MB (Use	C:(NTFS) F 59.5 GB (Us 1	F:(NTFS) 108.4 GB (Used:	E:(NTFS)		J:(NTFS)	) I:(NTFS) (Usi 138.4 GB (Usi	ed: 0%)
昌 Align Partition			1. <u>2212 00 (03</u> )[1		с <sub>л</sub> 15 нт 66	(0000.070)	Л. 2010 30	(00) 10011 0D (00)	
		Disk 2				- `			
E] Set Label		MBR G:(NTFS) 256.00 GB 112.8 GB (Us	sed: 0%)		H:(NTF) 74.6 GB	S) (Used: 0%)		(Unallocated) 68.5 GB	

Note: In Move/Resize Partition interface, users can see the option Using Enhanced Data Protecting Mode which is checked by default. Please keep it checked since it gives the strongest protection to our data.

Step 4. From the main interface, users can preview that the selected partition has changed its position. At this time, please click **Apply** button in the upper left corner to apply the change.

eneral	View	Disk Pa	artition Dy	namic Di	sk Wizard	Help					Mi	ni Too
<b>V</b>	← Undo	X	Data Reco	very Pa	rtition Recov	ery Disk Bend	chmark Space	Analyzer			Bootable Med	lia Manu
				^ Pa	artition	,	Capacity	Used	Unused	File System	Тур	e
Wizaı		to SSD/HD	$\sim$		Disk 1 (	/Mware, VMw		AS, MBR, 500.00	GB)	,	71	
Ġ (	Copy Partiti	ion Wizard			*:System Re	eserved	549.00 N	IB 374.37 MB	174.63 MB	NTFS		Primary
Ē	Copy Disk V	Vizard			C:		59.46 0	B 22.03 GB	37.43 GB	NTFS		Primary
Partit	tion Mana	gement	$\bigcirc$		F:		108.43	B 107.35 MB	108.33 GB	NTFS		Primary
± (	Create Part	tition			E:		134.35 0	B 108.23 MB	134.25 GB	NTFS		Logical
ØV	Vipe Partit	ion			):		58.85 0	GB 114.84 MB	58.74 GB	NTFS		Logical
Chec	k Partitio	n	$\overline{\mathbf{A}}$		I:		138.36 0	B 108.28 MB	138.25 GB	NTFS		Logical
	Surface Te	st			Disk 2 (	/Mware, VMw	are Virtual S S	AS, MBR, 256.00	GB)			
🗐 P	Partition Pro	operties		-	G:		112.83 0			NTES	_	During a serie
	)ata Recov	ery										Primary
1 Ope	erations P	ending		1.1	*:		68.53 G			Unallocate		Logical
- 1.	Move/Resi	ze: (H: ( Di	isk 2 P		H:		74.64 0	B 97.31 MB	74.54 GB	NTFS		Primary
					<b>Disk 1</b> MBR 500.00 GB	System Resi 549 MB (Use		F:(NTFS) 108.4 GB (Used:	E:(NTFS) 0 134.4 GB (Us	ed: 0%)	) (Usi) 138.4 GB	(Used: 0%)
					Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (Us	sed: 0%)		(Unallocated 68.5 GB		:(NTFS) 4.6 GB (Used: 0	%)

This is the end of the tutorial on Move/Resize Partition feature in MiniTool Partition Wizard.

# 20. Extend Partition

## 20.1 About Extend Partition

**Extend Partition** directly takes free space from any other existing partitions or unallocated space to enlarge a partition on the same disk while **Move/Resize Partition** requires contiguous unallocated space. Under the following 2 situations, **Extend Partition** is suggested.

- 1. Extend a partition to non-contiguous unallocated or free space.
- 2. There is no unallocated or free space on the disk.

# 20.2 How to Extend Partition

Step 1. Run MiniTool Partition Wizard to get its main interface. Then, select the partition which needs extending and choose **Extend Partition** from the left action panel or choose **Extend** from the right-click menu.

neral View Disk Part	ition Dyna	mic Disk Wizard Help					Mini	100
$\checkmark$ $\checkmark$ $\times$								
oply Undo Discard	Data Recove	ry Partition Recovery Disk Benc	hmark Space And	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/HD V	Vizard	🛶 Disk 1 (VMware, VMwa	are Virtual S SAS,	MBR, 500.00 0	B)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prir	nary
Copy Disk Wizard		C:	59.46 GB	22.03 GB	37.43 GB	NTFS	Prir	nary
Change Partition	$\bigcirc$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	🗖 Prir	nary
Move/Resize Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	ical
Extend Partition		J:	58.85 GB	114.84 MB	58.74 GB	NTFS	🗖 Log	ical
Merge Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Log	ical
Character Size		🛶 Disk 2 (VMware, VMwa	are Virtual S SAS,	MBR, 256.00 0	iB)			
Change Cluster Size		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Prir	nary
品 Set Partition as Logical		н:	74.64 GB	97.31 MB	74.54 GB	NTFS	Prir	nary
Partition Management		*:	68.53 GB	0 B	68.53 GB	Unallocated	d 🗖 Log	ical
Delete Partition	•	•						
Format Partition		Disk 1			۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	Υ.	Υ.	
Copy Partition		MBR System Res		NTFS) 8.4 GB (Used: 0	E:(NTFS) 134.4 GB (Used	J:(NTFS)	I:(NTFS) Usi 138.4 GB (Us	od: 0%
Align Partition			03.5 GB (03) 100	.+ GD (OSed. (	134.4 00 (0360	. 0 /0)00.0 00 (	03// 130.4 GD (03	eu. 070
Wipe Partition		Disk 2					(), II , I	
E]) Set Label		MBR G:(NTFS) 256.00 GB 112.8 GB (Us	ed: 0%)		H:(NTFS) 74.6 GB (Used		(Unallocated) 68.5 GB	

Step 2. Open the drop-down list of **Take Free Space from** and choose a partition or unallocated space to take free space. Then, drag the sliding handle leftwards or rightwards to decide how much space to take, with partition size changing intuitively. After that, click OK to continue.

<u>෯</u> Mi	niTool Partition Wizard	Pro 11		_ 🗆 ×
Gener	al View Disk Pa	tition Dynamic Disk Wizard Help	Mi	ni Tool
$\checkmark$	Υ			0
Apply	Undo Discard	Data Recovery Partition Recovery Disk Benchmark Space Analyzer	Bootable Med	lia Manual
Wiz	ard	Partition Capacity Used Unused File System	em Typ	e
6	Migrate OS to SSD/HD	Wizard 🛛 🛶 Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)		
٢	Copy Partition Wizard	🟂 Extend Partition 🛛 🗙	FS 🔲	Primary
P	Copy Disk Wizard	Extend Partition for "F: [108.44 GB]"	FS 🗖	Primary
Cha	nge Partition	Extend Partition feature is designed to extend partition with one simple click.	FS 🔲	Primary
₿  }	Move/Resize Partition	-0		Logical
P	Extend Partition	Take Free Space from: E: [134.35 GB]		Logical
5	Merge Partition	How much free space do you want to take?		Logical
미	Split Partition			Logical
-0	Change Cluster Size	Minimum Size: 0 KB 61.71 GB Maximum Size: 123.41 GB		
Ç,	Convert NTFS to FAT	The new size of "F: [108.44 GB] " will be 170.14 GB	FS ∎	Primary
뫊	Set Partition as Logical	The new size of "E: [134.35 GB] " will be 72.65 GB	-s 🗖	Primary
Par	tition Management	Extend Partition Tutorial     OK     Cancel	cated 🔲	Logical
ŵ	Delete Partition			,
0	Format Partition	Disk 1		
Ġ	Copy Partition	MBR         System Resi         C:(NTFS)         F:(NTFS)         E:(NTFS)         J:(N           500.00 GB         549 MB (Use)         59.5 GB (Usi)         108.4 GB (Used: C)         134.4 GB (Used: 0%)         58.8	TFS) I:(NTFS) GB (Use 138.4 GB	(Used: 0%)
	Align Partition			
Ø	Wipe Partition	Disk 2 MBR G:(NTFS) H:(NTFS)	(Unallocated)	
ED	Set Label	256.00 GB (Used: 0%) 74.6 GB (Used: 0%)	68.5 GB	
G	PT/Primary 🔲 Logica	Simple Spanned Striped Mirrored RAIDS Unallocated		<b>ि ⊻ ⊗</b>

Step 3. Click **Apply** button at the top to apply changes.

neral View Disk	Partition D	ynamic Disk Wizard Hel	p				МП	1 <mark>1</mark> Too
∕ ५ X		·					0	
oply Undo Discar	d Data Rec	overy Partition Recovery D	isk Benchmark Space A	Analyzer			Bootable Media	a Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSE	<u> </u>	Disk 1 (VMwar	e, VMware Virtual S SA	S, MBR, 500.00	GB)			
Copy Partition Wiz	ard	*:System Reserved	d 549.00 MB	374.37 MB	174.63 MB	NTFS	P	rimary
Copy Disk Wizard		C:	59.46 GB	22.03 GB	37.43 GB	NTFS	P	rimary
Change Partition	$\bigcirc$	F:	170.14 GB	107.35 MB	170.04 GB	NTFS	D P	rimary
Move/Resize Parti	tion	E:	72.65 GB	108.23 MB	72.54 GB	NTFS	<b>D</b> b	ogical
Extend Partition		J:	58.85 GB	114.84 MB	58.74 GB	NTFS	<b>—</b> 6	ogical
S Merge Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 L	ogical
C Split Partition		Disk 2 (VMwar	e, VMware Virtual S SA	S, MBR, 256.00	GB)			
Change Cluster Siz			112.83 GB	107.50 MB	112.72 GB	NTES	P	rimary
品 Set Partition as Lo		H:	74.64 GB	97.31 MB	74.54 GB	NTFS		rimary
Partition Manageme	· _	*:	68.53 GB		68.53 GB	Unallocated		ogical
The Delete Partition	nt 🕐	4						
Format Partition		Disk 1				1		
Copy Partition				:(NTFS) 70.1 GB (Used:		(NTFS) J:(NTFS) .6 GB (U: 58.8 GB (	I:(NTFS)	lood: 0%)
Align Partition		500.00 00 [349]	MB (OSE) 29.2 GB (OSI)	170.1 GB (USed:	<u>, 72</u>	.0 GB (Ut) 58.8 GB (	USI 138.4 GB (0	Jseu: 0%)
		Disk 2	>			)	6. H D	
티) Set Label			TFS) 3 GB (Used: 0%)		H:(NTFS) 74.6 GB (Us		(Unallocated) 68.5 GB	

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This is the end of MiniTool Partition Wizard Tutorial to Extend Partition.

# 21. Copy Partition

#### 21.1 Copy Partition Wizard

**Copy Partition Wizard** feature copies all data from one partition to another without any data loss with ease. Compared with copying files directly, to copy partition helps users save much time. Therefore, when users plan to backup files saved in one partition, try copying the whole partition.

When MiniTool Partition Wizard is copying partition, data protection solutions such as power-off protection is activated automatically. Don't worry about data security even if power outage emerges without redundant power supply.

### 21.2 How to Copy Partition

Step 1. Run MiniTool Partition Wizard to enter its main interface. Then, choose Copy **Partition Wizard** feature from the left action panel.

neral View Disk Pa	rtition Dyn	amic Disk Wizard Help					Mini	Тоо
✓ ← × ply Undo Discard	Data Recov	/ery Partition Recovery Disk Ber	nchmark Space Ana	alyzer			ی Bootable Media	Manu
Vizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	Disk 1 (VMware, VMv	ware Virtual S SAS,	MBR, 500.00 0	GB)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	nary
Copy Disk Wizard	- 1	C:	59.46 GB	22.03 GB	37.43 GB	NTFS	Prin	nary
hange Partition	$\bigcirc$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
Move/Resize Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	ical
Extend Partition		J:	58.85 GB	114.84 MB	58.74 GB	NTFS	🗖 Logi	ical
3 Merge Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	ical
C Split Partition		w Disk 2 (VMware, VMv	ware Virtual S SAS,	MBR, 256.00 0	GB)			
Change Cluster Size		G:	112.83 GB	107.50 MB	112.72 GB	NTES	Prin	aan/
Convert NTFS to FAT		н:	74.64 GB	97.31 MB	74.54 GB	NTES	Prin	· ·
artition Management	$\odot$	*.	68.53 GB	0 B	68.53 GB	Unallocate		
Delete Partition		•	00.55 GB	00	00.55 65	onanocate		icai
Format Partition		•						
Copy Partition		Disk 1 MBR System Res	C:(NTFS) F:(	NTFS)	E:(NTFS)	J:(NTFS)	I:(NTFS)	
Align Partition			E 59.5 GB (Usi 108				(Us) 138.4 GB (Use	ed: 0%)
Wipe Partition		·			- )[			
E]) Set Label		Disk 2 MBR G:(NTFS)			H:(NTFS)		(Unallocated)	
Change Drive Letter		256.00 GB 112.8 GB (L	Jsed: 0%)		74.6 GB (Used:	0%)	68.5 GB	

Step 2. Click Next button to continue.

🟂 Copy Partition Wizard			×
Welcome to the Copy Partition Wizard This wizard helps you to copy a partition.			
To continue, click Next			
<u>Copy Partition Tutorial</u>	< Back	Next >	Cancel

Step 3. Select the partition to copy.

Disk 1 MBR	System	Res C:(NTFS	) F:(NTFS)	E:(NTFS)	J:(NTFS)	I:(NTFS)
500.00 GB	549 MB	(Use 59.5 GB	(Usi 108.4 GB (U	se 134.4 GB (Us	ed: ( 58.8 GB (	Js 138.4 GB (L
Partition		Capacity	Used	Unused	File System	Туре
			tual S SAS, MBR,			
*:System	R	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
C:		59.46 GB	22.03 GB	37.43 GB	NTFS	Primary
F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Primary
E:		134.35 GB	108.23 MB	134.25 GB	NTFS	Logical
J:		58.85 GB	114.84 MB	58.74 GB	NTFS	Logical
I:		138.36 GB	108.28 MB	138.25 GB	NTFS	Logical
🥌 Disk 2	2 (VMwar	e, VMware Vir	tual S SAS, MBR,	256.00 GB)		
G:	-	112.83 GB	107.50 MB	112.72 GB	NTES	Primary

Step 4. Choose an unallocated space from partition list to save the copy of the selected partition and then click **Next**.

Note: Unallocated space should be large enough to hold all data on the source partition.

Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (Used: 0%)		H:(NTFS) 74.6 GB (Used	: 0%)	(Unallocated) 68.5 GB
Partition	Capacity	Used	Unused	File System	Туре
C:	59.46 GB	22.03 GB	37.43 GB	NTFS	Primary
F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Primary
E:	134.35 GB	108.23 MB	134.25 GB	NTFS	Logical
J:	58.85 GB	114.84 MB	58.74 GB	NTFS	Logical
I:	138.36 GB	108.28 MB	138.25 GB	NTFS	Logical
🥌 Disk 2	2 (VMware, VMware Vir	tual S SAS, MBR,	256.00 GB)		
G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Primary
Н:	74.64 GB	97.31 MB	74.54 GB	NTFS	Primary
*:	68.53 GB	0 B	68.53 GB	Unallocate	d 🔲 Logical

Step 5. Move the handle to enlarge or shrink the new partition. Alternatively, users can type exact partition size in MB. In addition, they can choose partition type (primary or logical) for the new partition. Then, click **Finish**.

Copy Pa	artition Wi	izard							
E <b>dit Part</b> Please		e new partition	size and spec	ify the loca	tion of the se	lected pa	rtition:		
Source Di	isk & Parti	tion:							
M	<b>isk 1</b> BR 00.00 GB	System Res 549 MB (Use	C:(NTFS) 59.5 GB (Usi	F:(NTFS) 108.4 GB (	E:(NTFS 134.4 G		J:(NTF 58.8 G		TFS) 4 GB (Used: (
Destinatio	on Disk & I	Partition:							
M	<b>isk 2</b> BR 56.00 GB	G:(NTFS) 112.8 GB (Us	ed: 0%)		H:(NTFS) 74.6 GB (	) (Used: 0%	6)	(Unallocate 68.5 GB	ed)
Size & Lo	cation:				Copy the	partition v	vith resiz	e	
<ul> <li>€ 58.8</li> </ul>	35 GB (Use	ed:114.00 MB)						>	
		ι	Jnallocate Spa	ce Before:	0.00	<b>*</b>	МВ		
			Par	tition Size:	60260.00	▲ ▼	MB		
			Unallocate Sp	ace After:	9916.00	* *	MB		
				Create As:	Logical	-			

Step 6. Click Apply button to make changes performed.

eneral	l View Disk Pa	rtition Dyr	namic Disk Wizard Help					Mini	100
$\checkmark$	Ϋ́		<b></b>	<b>,</b>					
pply	Undo Discard	Data Recov	very Partition Recovery Disk Be	nchmark Space An	alyzer			Bootable Media	Manua
Wiza	rd		Partition	Capacity	Used	Unused	File System	Туре	
1 M	Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	nary
<b>B</b>	Copy Partition Wizard		C:	59.46 GB	22.03 GB	37.43 GB	NTFS	Prin	nary
P (	Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
Chan	ge Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
÷.	Move/Resize Partition	Ŭ	J:	58.85 GB	114.84 MB	58.74 GB	NTFS	🗖 Logi	cal
R I	Extend Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	cal
ß	Merge Partition		Disk 2 (VMware, VM	Iware Virtual S SAS,	MBR, 256.00 (	GB)			
3 C \$	Split Partition		G:	112.83 GB	107.50 MB	112.72 GB	NTES	Prin	any
- <b>o</b> (	Change Cluster Size		H:	74.64 GB	97.31 MB	74.54 GB	NTES	Prin	1
\$5 (	Convert NTFS to FAT		К:	58.85 GB	114.84 MB	58.73 GB	NTES		1
Parti	tion Management	$\bigcirc$	*.	9.68 GB	0 B	9.68 GB	Unallocate		
<u>ش</u> (	Delete Partition			9.08 GB	0.8	9.08 GB	Unallocate	d 🔲 Logi	Cal
0	Format Partition		•						•
•	Copy Partition		Disk 1						
ē /	Align Partition		MBR System Re 500.00 GB 549 MB (U	s C:(NTFS) F:( s 59.5 GB (Us 108	NTFS) 3.4 GB (Used: (	E:(NTFS) 134.4 GB (Used	J:(NTFS) : 0%) 58.8 GB	I:(NTFS) (Us: 138.4 GB (Use	ed: 0%)
	Wipe Partition					Λ.	· /(	· · ·	
E) s	Set Label		Disk 2 MBR G:(NTFS)			I:(NTFS)	K:(NTF	(II	nallocat
Pe (	Change Drive Letter		256.00 GB 112.8 GB (	Used: 0%)		'4.6 GB (Used: 0%			7 GB

Note: If users want to copy system partition, for a successful boot, it is recommended to use Copy Disk or Migrate OS to SSD/HD feature.

# 22. Wipe Partition

### 22.1 About Wipe Partition

Wipe Partition feature in MiniTool Partition Wizard can erase all data on the specified partition permanently, and the erased data can't be recovered by any data recovery solution. Therefore, wiping partition is quite a good way to prevent privacy or confidential information from being leaked.

To wipe a whole disk, please refer to Wipe Disk feature.

MiniTool Partition Wizard tutorial below will show you detailed steps.

### 22.2 How to Wipe Partition

Step 1. Launch MiniTool Partition Wizard to get its main interface as follows. Then select the target partition and choose **Wipe Partition** from the left action panel or right-click menu.

<u>参</u> Mii	niTool Parti	tion Wizard	Pro 11												_ 0	×
Genera	al View	Disk Pa	artition Dy	namic D	Disk Wizard	Help								Min	i Too	o/
$\checkmark$	<∽	$\times$											0			2
Apply	Undo	Discard	Data Reco	overy Pa	artition Recovery	Disk Benc	hmark Sp	bace Ana	₽	Data Recovery			Bootabl	e Media	Mar	nual
Wiz	ard		$\bigcirc$	^ F	Partition		Capacit	ty	0	Format		File Syster	m	Тур	е	Â
Gé (	Migrate OS	5 to SSD/HD	) Wizard		C:		30	.00 GB	0	Delete		NTE	5		Primary	
Ġ	Copy Parti	tion Wizard			*:		469	.46 GB	¦₽  }	Move/Resize		Unalloc	ated		ogical	
Ħ	Copy Disk	Wizard			Disk 2 (VMv	vare, VMwa	are Virtual	S SAS, I	•	Сору						
Cha	nge Partit	ion	$\bigcirc$		F:		2048	.00 GB	Ē	Label		exFA	т		Primary	d
₿.	Move/Resi	ze Partition			*:		1024	.00 GB	ንተፋ	Hide Partition		Unalloc	ated		ogical	1
品	Set Partitio	on as Logica	h	Ι.	🧼 Dynamic Di	<b>isk</b> ("Disk 3.	. VMware.	VMware	\$	Set Active						
Par	tition Man	agement	$\bigcirc$	-	-			.08 GB	憜	Change Letter		NTT:	_	-		
ŵ	Delete Par	tition			E:					Set Partition as Logical		NTE	-		Simple	
0	Format Pa	rtition			*:		8.	.00 MB				Ext2	2		Simple	
G	Copy Parti	tion		•						Change Serial Number						• •
Ð	Wipe Parti	tion			Disk 1				8	Change Partition Type	ID					
ED	Set Label				MBR Sy	/stem Res			-1/-	Surface Test						
P	Change Dr	ive Letter		l	500.00 GB 54	19 MB (Use	30.0 GB (	Usi 469.	D	Wipe Partition						
	Change Pa	rtition Type	ID		Disk 2				=	Properties						
	Change Se	erial Numbe	r	-		(exFAT) )48.0 GB (U	sed: 0%)		_			(Unall 1024.	ocated) 0 GB			
ንተፋ	Hide Partit	ion														
\$	Set Active				Disk 3 MBR F:	(NTFS)				(Ext2)	(Unalle	ocated)				
Che	ck Partitio	n	$\bigcirc$	Ţ		28.1 GB,Sim	ple			8 MB,Simpl						
G	PT/Primary	Logica		le 🔲	Spanned 🔲 St	riped 📃	Mirrored	RAID	5	Unallocated				(	)	8.

Step 2. Select a wiping method and click **OK** to go back to the main interface. The more time wiping process takes, the higher security it enjoys.

neral View Disk Partit	on Dynamic Disk Wizard Help		Mini Too
ply Undo Discard D	ta Recovery Partition Recovery Disk Benchmark Space Analyzer		Bootable Media Manu
Vizard	Partition Capacity Used Unused	File System	Туре
Migrate OS to SSD/HD W     Copy Partition Wizard     Copy Disk Wizard	Wiping Disk or Partition	× NTFS Unallocate	<ul> <li>Primary</li> <li>d          Logical     </li> </ul>
Change Partition Move/Resize Partition Set Partition as Logical	once wiped can not be recovered by any data recovery solutions.     Destination Device: F: ( Disk 2 Partition 1 )	exFAT Unallocate	d Primary
Partition Management	Wiping Method:  Fill Sectors with Zero  ( Quick )	NTFS	Simple
<ul> <li>Format Partition</li> <li>Copy Partition</li> <li>Wipe Partition</li> <li>Set Label</li> </ul>	<ul> <li>Fill Sectors with One (Quick)</li> <li>Fill Sectors with Zero &amp; One (Slow)</li> <li>DoD 5220.22-M (3 passes) (Very Slow)</li> <li>DoD 5220.28-STD (7 passes) (Very Slow)</li> </ul>	Ext2	Simple
していたい。 Change Drive Letter	Wipe Partition Tutorial     OK     Cance		
Change Partition Type ID Change Serial Number	Disk 2 MBR 3.00 TB 2048.0 GB (Used: 0%)	(Unalloca 1024.0 G	
Hide Partition     Set Active Check Partition	Disk 3         E:(NTFS)         (Ext2)           256.00 GB         128.1 GB,Simple         8 MB,Simple	(Unallocated) 127.9 GB	

Step 3. Users can preview that the target partition is shown as **Unformatted** state. Then click **Apply** to start wiping partition.

neral View Disk Par	tition Dyr	namic Disk Wizard Help					Mini	100
ν	into							
oply Undo Discard	Data Recov	very Partition Recovery Disk Bend	hmark Space Ana	lyzer			Bootable Media	Manu
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	п Туре	
Migrate OS to SSD/HD	Wizard	C:	30.00 GB	19.07 GB	10.93 GB	NTFS	E P	rimary
Copy Partition Wizard		*:	469.46 GB	0 B	469.46 GB	Unalloca	ted 🔲 L	ogical
Copy Disk Wizard		🛶 Disk 2 (VMware, VMw	are Virtual S SAS, I	MBR, 3.00 TB)				
Change Partition	$\odot$	*:	2048.00 GB	0 B	2048.00 GB	Unformat	tted 🗆 P	rimary
品 Set Partition as Logical		*:	1024.00 GB	0 B	1024.00 GB	Unalloca	ted 🗖 L	ogical
Partition Management	$\odot$	<b>Oynamic Disk</b> ("Disk 3	, VMware, VMware	Virtual S SAS,	, MBR, 256.00 GE	")		
Delete Partition		E:	128.08 GB	108.01 MB	127.97 GB	NTFS	🔲 S	imple
✓ Wipe Partition		*:	8.00 MB	263.00 KB	7.74 MB	Ext2	🔲 S	imple
Change Drive Letter		•						
<ul> <li>Ghange Partition Type I</li> <li></li></ul>	D	Disk 1 MBR 500.00 GB System Resu 549 MB (Use	C:(NTFS) 30.0 GB (Usi 469	allocated) .5 GB				
Check Partition	$\bigcirc$							
Surface Test Partition Properties		Disk 2 MBR (Unformatter 3.00 TB 2048.0 GB	i)			(Unallo 1024.0		
Data Recovery		Disk 3			) I	1024.0		
Operations Pending     1. Format: (F: ( Disk 2 Pa	-	MBR E:(NTFS) 256.00 GB 128.1 GB,Sin	nple		(Ext2) 8 MB,Simple	Unallocated) 127.9 GB		

When finished, the target partition is shown as unformatted and has no drive letter. Then users can format it and add a drive letter for it with these two features: Format Partition and Change Drive Letter.

# 23. Align Partition

### 23.1 About Align Partition

The **Align Partition** feature added in MiniTool Partition Wizard helps users align the specified partition in several simple steps.

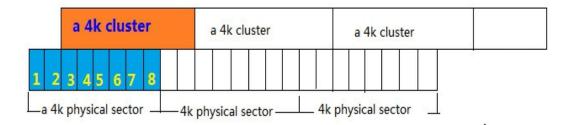
### 23.1.1 Why Align Partition

4K alignment is a quite important issue for hard disks which employ 4K sectors, including both Solid State Drive (SSD) and advanced formatted mechanical hard disk. And actually, it refers to the alignment between 4K physical sector and cluster.

A cluster is the smallest logical amount of disk space that can be allocated to hold a file. One cluster can only hold content of one file no matter how small the file is.

From Wikipedia

When we are creating partitions on hard disks which use 4K physical sector, the partition always does not start from the starting position of a physical sector, which means physical sector and cluster will be shifted.



As a result, reading data saved in one cluster will access 2 physical sectors, thus increasing access time or slowing down read speed. Similarly, writing a file will operate 2 physical sectors at least, which definitely will increase writing times and waste disk space. Therefore, it is very necessary to perform the 4K alignment.

### 23.1.2 When Do We Need to Align Partition

1. If users are creating partitions on SSD or advanced formatted HDD under old versions of Windows, including Windows XP, Windows Server 2003, Windows 2000, etc., partition alignment is required since these operating systems do not have such a function.

2. After copying a partition to SSD or advanced formatted HDD, or after changing the location and size of a partition, users are suggested to align partitions, even if they are running Windows Vista or more advanced Windows operating systems in which partitions are aligned automatically when they are creating or formatting partition.

For specific steps, please see MiniTool Partition Wizard Tutorial below.

### 23.2 How to Align Partition

Step 1. Run MiniTool Partition Wizard to get its main interface.

Step 2. Select the partition which needs aligning, and then choose **Align Partition** from the left action panel or select **Align** from right-click menu.

🖄 MiniTool Partition Wiza	rd Pro 11		†‡	Move/Resize					_ 🗆 :
General View Disk	Partition Dyr	namic Disk Wizard Hel	P	Extend				ľ	lini Too
	-		5	Merge				۲	
$\checkmark$ $\land$ $\times$	í interesta de la constante de	inn <b>e</b>	쾨	Split					.   🖣
Apply Undo Discard	Data Recover	ry Partition Recovery Disk		Change Cluster Size				Bootable N	Aedia Manu
Wizard	$\odot$	Partition	•	Сору		Unused	File System	Ту	уре
🕼 Migrate OS to SSD/	HD Wizard	wDisk 1 (WDC W	Ē	Label	65.7	76 GB)			
🕚 Copy Partition Wiza	rd	C:	8	Align	в	18.54 GB	NTFS		Primary
Copy Disk Wizard		D:DOWNLOAD	Q	Check File System	зв	16.33 GB	NTFS		Logical
Change Partition	$\odot$	E:Work	-	Explore	зB	48.96 GB	NTFS		Logical
🚔 Move/Resize Partitio	on	F:Files		Hide Partition	в	41.65 GB	NTFS		Logical
Extend Partition		H:New Volume		Change Letter	1B	4.26 MB	NTFS		Primary
S Merge Partition		*:		5	в	1.65 GB	Unallocated		Logical
□ E Split Partition		Disk 2 (Samsu		Convert NTFS to FAT	88	GB)			
Change Cluster Size		*.		Change Serial Number	⊢	-	01		00T (D
Convert NTFS to FA	л	-	8	Change Partition Type ID	1B	0 B	Other		GPT (Reserv
Partition Management	t 📀	-:	-44	Surface Test	В	232.76 GB	Unallocated		GPT
Delete Partition			Ø	Wipe Partition	L				
Format Partition		Disk 1		Properties	F			Υ	<b>.</b> Y
Copy Partition		MBR C:(NT		D:DOWNLOAD(N E:Work(N					lui (Unallocat
Align Partition		465.76 GB 75.1	GB (U	s 100.0 GB (Used: 85.0 GB (U	Jser	203.9 GB (Used	1: 79%)	8 MB (Use	d:∬1.6 GB
✓ Wipe Partition		Disk 2		l l					
E]) Set Label		GPT (Othe 232.88 GB 128 M		(Unallocated) 232.8 GB					
Change Drive Letter GPT/Primary Log		• [L				cated			6.46

Step 3. If it is misaligned, uses will see a pending operation on the left action pane. At this time, just click on **Apply** button to perform this operation.

neral <u>V</u> iew <u>D</u> isk <u>I</u>	Partition D	ynamic Disk <u>W</u> izard <u>H</u> elp					Mini	100
pply Undo Discard	Data Recov	ery Partition Recovery Disk Bench	-	yzer			Bootable Media	Manu
Wizard	۲	Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/H	D Wizard	Disk 1 (WDC WD5000)	AAKX-00ERMA0 S	ATA, MBR, 465.	.76 GB)			
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Change Partition	$\odot$	E:Work	85.00 GB	36.04 GB	48.96 GB	NTFS	🗖 Logica	al
Move/Resize Partitio	n	F:Files	203.93 GB	162.28 GB	41.65 GB	NTFS	Logica	al
Extend Partition		H:New Volume	8.00 MB	3.74 MB	4.26 MB	NTFS	Prima	iry
Merge Partition		*:	1.65 GB	0 B	1.65 GB	Unallocated	Logica	al
Change Cluster Size		Disk 2 (Samsung SSI	0 840 EVO 250G US	5B, GPT, 232.88	GB)			
Convert NTFS to FAT	г	*:	128.00 MB	128.00 MB	0 B	Other	GPT (	Resen
品 Set Partition as Logi	cal	*:	232.76 GB	0 B	232.76 GB	Unallocated	GPT	
Partition Management	$\odot$	4						
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Format Partition		MBR C:(NTFS)	D:DOWNLOAD(N					allocat
Copy Partition		465.76 GB 75.1 GB (Us	100.0 GB (Used:	85.0 GB (Use	203.9 GB (Used	: 79%)	8 MB (Used: 1.6	GB
을 Align Partition		Disk 2						
Wipe Partition		GPT (Other) 232.88 GB 128 MB	(Unallocated) 232.8 GB					

But if the selected partition is already aligned, users will get the information below.

eneral View Disk	Partition D	ynamic Disk Wizard Help					Mini Too
pply Undo Discard	Data Recov	ary Partition Recovery Disk Ben	-	zer			Bootable Media Mar
Wizard		Partition	Capacity	Used	Unused	File System	Туре
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0	u	C:	75.13 GB	56.59 GB	18.54 GB	NTFS	Primary
Copy Disk Wizard		D:DOWNLOAD	100.03 GB	83.70 GB	16.33 GB	NTFS	Logical
Change Partition	$\odot$	E:Work	85.00 GB	36.04 GB	48.96 GB	NTFS	Logical
Move/Resize Partitio	n	🯄 Information			;	< NTFS	Logical
Extend Partition		The specified par	tition does not need to	, change nartil	tions alignment. It	NTFS	Primary
Merge Partition		is already aligned		r enunge purch	iono ungrimenti it	Unallocated	Logical
] ⊂ Split Partition		-	ОК				5
Change Cluster Size		L	UK				
Convert NTFS to FA	т	*:	128.00 MB	128.00 MB	0 B	Other	GPT (Resen
Partition Management	•	*:	232.76 GB	0 B	232.76 GB	Unallocated	GPT
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Format Partition		•					v v
Copy Partition		Disk 1 MBR C:(NTFS)	D:DOWNLOAD(N	E-Work/NTES	F:Files(NTFS)		H:New Volui (Unallocat
Align Partition			Us 100.0 GB (Used:			79%)	8 MB (Used: 1.6 GB
			_)(				
E] Set Label		Disk 2 GPT (Other)	(Unallocated)				
Change Drive Letter		232.88 GB 128 MB	232.8 GB				

After that, partition alignment is completed via MiniTool Partition Wizard. It is so easy. However,

to align multiple partitions on the same hard disk, please use Align All Partitions feature.

# 24. Check Partition File System

### 24.1 About Check File System

When running computer, users may receive a message that indicates there is a damaged <u>file</u> <u>system</u> or the partition need formatting before access which might be caused by abnormal shutdown. At this time, users may try to repair the error by employing the Check **File System** function which aims to checking and repairing some mistakes to ensure the integrity of the file.

Note: This function can only be used when the selected partition has a drive letter. For the partition without a drive letter, users need to appoint drive letter before they can use this function.

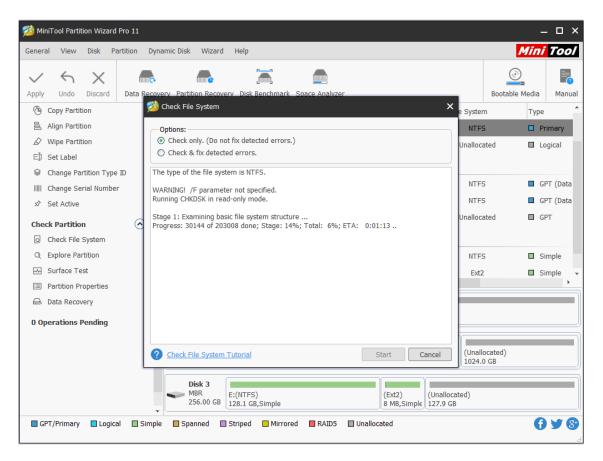
See the MiniTool Partition Wizard Tutorial to know how to complete this task.

### 24.2 How to Check File System

Step 1. Launch MiniTool Partition Wizard to its main interface. Then select the target partition, and choose **Check File System** from the action panel or from the **Partition** menu.

Discar	≵ Move/Resize ☑ Extend						~		
rtition		covery Disk Benc	hmark Space Ana	lyzer			Bootable Me	edia	Manu
	읍 Merge		Capacity	Used	Unused	File Syster	m	Туре	
rtition	⊐l⊂ Split		30.00 GB	19.07 GB	10.93 GB	NTES	5	Prin	nary
rtition	🔒 Data Recovery		469.46 GB	0 B	469.46 GB	Unalloca	ated	🗆 Logi	ical
el	🕭 Сору	2 (VMware, VMw	are Virtual S SAS. (	GPT. 3.00 TB)					
Partition T	Q Explore		1024.11 GB	207.99 MB	1023.90 GB	NTES	5	GPT	(Data
	🗄 Create		1023.89 GB	207.95 MB	1023.69 GB	NTES	5	GPT	(Data
	🔟 Delete		1024.00 GB	0 B	1024.00 GB	Unalloca	ated	GPT	Ţ
	를 Align	amic Disk ("Disk 3	, VMware, VMware	Virtual S SAS,	, MBR, 256.00 GI	3")			
	Format		128.08 GB	108.01 MB	127.97 GB	NTES	5	Sim	ple
Test	티 Label		8.00 MB	263.00 KB	7.74 MB	Ext2	2	🗆 Sim	iple
Properties	🖷 Change Letter								,
covery s Pendinc	Check File System								
-	Convert NTFS to FAT								
	Surface Test		Ised: 0%)						
	Modify	•							
		GB 128 1 CB Sim	anle						
	l Partition T Serial Nun 'e <b>ion</b> le System Partition Test Propertie: xovery s Pending	I     Image: Construction of the section	I       Image: Construction of the second of	I       Image: Constraints of the section of the sectio	I       Image: Convertion of the system         Partition T       Q. Explore         Serial Nun       Image: Convert System         Image: Convert System       Image: Convert System         Image: Con	I       Image: Convertion of the system         Partition       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS	I       Image: Convert FAT to NTFS         Propertie       Image: Convert FAT to NTFS         Sovery       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS         Image: Convert FAT to NTFS       Image: Convert FAT to NTFS	I       493,48 GB       0 B       493,48 GB       0 B       493,48 GB       0 Hallocated         Partition       Q       Explore       2 (VMware, VMware Virtual S SAS, GPT, 3.00 TB)       2 (VMware, VMware, VMware Virtual S SAS, GPT, 3.00 TB)         Serial Nun       I       Create       1024.11 GB       207.99 MB       1023.99 GB       NTFS         ion       I       Create       1024.00 GB       0 B       1024.00 GB       Unallocated         ion       I       Align       mic Disk ("Disk 3, VMware, VMware Virtual S SAS, MBR, 256.00 GB")       Imaic Disk ("Disk 3, VMware, VMware Virtual S SAS, MBR, 256.00 GB")         Partition       I       Label       8.00 MB       263.00 KB       7.74 MB       Ed2         Propertie       ID       Check File System       GB       System Res.       C:(NTFS)       (Unallocated)         s Pending       IC       Convert NTFS to FAT       F:(NTFS)       ID24.1 GB (Used: 0%)       ID23.9 GB (Used: 0%)       ID24.0 GB         Modify       Image Letter       ID24.1 GB (Used: 0%)       ID23.9 GB (Used: 0%)       ID24.0 GB         Modify       Image Letter       ID24.1 GB (Used: 0%)       ID23.9 GB (Used: 0%)       ID24.0 GB         Modify       Image Letter       ID24.0 GB       ID24.0 GB       ID24.0 GB<	I       Convertion       Convertion       Convert       Convert

Step 2. A new window pops-up with two options: Check only and Check & fix detected errors. If users only want to check, select the former one; if users want to repair mistakes during the checking process, select the latter one. After that, click Start button and MiniTool Partition Wizard will check/fix file system immediately.



# 25. Change Drive Letter

### 25.1 About Change Drive Letter

Change Drive Letter feature is most commonly used in 2 cases:

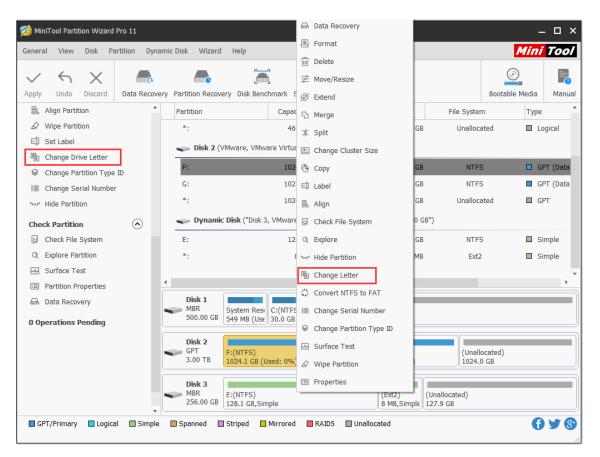
- The drive letters of the multiple partitions are not arranged in sequence.
- Without drive letter, a partition would not appear in File Explorer. Change Drive Letter is able to reassign drive letter to that partition to make it accessible.

### 25.2 How to Change Drive Letter

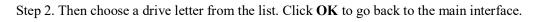
You can easily change <u>drive letter</u> for partitions with MiniTool Partition Wizard. Launch this partition manager to its main interface to change drive letter.

Step 1. Right-click on the target partition, and then select **Change Letter** in the pop-up menu. Or users can click **Change Drive Letter** feature from the left action pane after selecting the target

drive.



Note: MiniTool Partition Wizard doesn't allow changing drive letter of the system partition.



neral View Disk Partition Dy	namic Disk Wizard Help					Mini Too
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pply Undo Discard Data Reco	very Partition Recovery Disk Bend	chmark Space Ana	lyzer		Boot	able Media Man
昌 Align Partition	Partition	Capacity	Used	Unused	File System	Туре
	*:	469.46 GB	0 B	469.46 GB	Unallocated	Logical
E]) Set Label	www.com Disk 2 (VMware, VMw	are Virtual S SAS,	GPT, 3.00 TB)			
🖷 Change Drive Letter	F:	1024.11 GB	207.99 MB	1023.90 GB	NTES	🔲 GPT (Data
Change Partition Type ID	G	1024.11 GD	207.99 1410	IN CR	NTES	GPT (Data
Change Serial Number	Change Drive Lette	er		× 10 GB	Unallocated	GPT (Dat
₩ Hide Partition	Change Letter					L GFI
Check Partition	Current Driv	e Letter: F:		.00 GB")		
Q Check File System	E: New Driv	e Letter: None		▼ 97 GB	NTFS	Simple
Q Explore Partition	*	None H:		▲ 4 MB	Ext2	Simple
Surface Test	Change Letter T	utorial I:		<u> </u>		
Partition Properties		л. Д.				
📾 Data Recovery	Disk 1 MBR System Res	L: C:(NTF: M:				
0 Operations Pending	500.00 GB 549 MB (Use					
	Disk 2	P:		×		
	GPT F:(NTFS) 3.00 TB 1024.1 GB (U	leed: 0%)	G:(NTFS)	(Used: 0%)	(Unallocated) 1024.0 GB	)
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	Disk 3 MBR E:(NTFS)			(Ext2) (U	nallocated)	
	256.00 GB 128.1 GB,Sin	nple		8 MB,Simple 12		

Step 3: Click Apply button to perform this operation.

ν ή X							
pply Undo Discard D 号, Align Partition		Benchmark Space Ana	-	Universit	File Outer	Bootable Med	
∠ Wipe Partition	Partition	Capacity	Used	Unused	File System		уре
E) Set Label	*:	469.46 GB	0 B	469.46 GB	Unalloca	ited 🔲	Logical
다. Set Labei 약 Change Drive Letter	Disk 2 (VMware,	VMware Virtual S SAS, 0	GPT, 3.00 TB)				
Change Partition Type ID	к:	1024.11 GB	207.99 MB	1023.90 GB	NTFS	; 🗖	I GPT (Dat
Change Serial Number	G:	1023.89 GB	207.95 MB	1023.69 GB	NTFS	; 🔳	GPT (Dat
Hide Partition	*:	1024.00 GB	0 B	1024.00 GB	Unalloca	ited 🔲	GPT
<ul> <li>Q Explore Partition</li> <li>→ Surface Test</li> <li>⇒ Partition Properties</li> </ul>	E: *:	128.08 GB 8.00 MB	108.01 MB 263.00 KB	127.97 GB 7.74 MB	NTFS Ext2		Simple Simple
Data Recovery COperations Pending 1. Change Letter: (F: ( Disk		Resi C:(NTFS) (Ust 30.0 GB (Ust 469.	illocated) 5 GB				
	Disk 2 GPT 3.00 TB	S) GB (Used: 0%)	G:(NTFS) 1023.9 G	3 (Used: 0%)	(Unallo 1024.0		
	Disk 3 MBR 256.00 GB 128.1 0	S) B,Simple		(Ext2) (U 8 MB,Simple 11	Jnallocated)		

# 26. Set Label

## 26.1 About Change Partition Label

Partition label is an optional name assigned to a partition to help users identify a certain partition quickly. Although partition label is not required, it makes it easier to keep track of what data is stored on each partition, especially when users have got many partitions.

Once the data saved in a partition are not matched with the partition label (for instance, the partition which is used to store working files is labeled Game), users can change it.

## 26.2 How to Change Partition Label

Step 1. Select the target partition, and click **Set Label** from the Partition Management group of the left action panel or click **Label** from the submenu of **Partition**.

eneral View Disk	Partition Dynamic Disk Wi	zard Help				Min	Τοο
yply Undo Disca	, ≵ Move/Resize	covery Disk Benchmark	Space Analyzer			Bootable Media	Manu
Change Partition	다. Split	Capa	acity Used 69.46 GB 0 B	Unused 469.46 GB	File System Unallocat	Туре	
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C Split Partition	Q Explore	10	23.89 GB 207.95 MB	1023.69 GB	NTFS		PT (Data
Change Cluster Si	E Create	10	24.00 GB 0 B	1024.00 GB	Unallocat	ed 🔲 G	PT
Convert NTFS to F	🔟 Delete	amic Disk ("Disk 3, VMwa	re, VMware Virtual S SA	S, MBR, 256.00 GB	")		
Partition Manageme	『 邑 Align	1	28.08 GB 108.01 MB	127.97 GB	NTES		imple
Delete Partition	Format	-	8.00 MB 263.00 KB		Ext2		imple
<ul> <li>Format Partition</li> <li>Copy Partition</li> </ul>	티 Label						
合 Align Partition	🖷 Change Letter						'
✓ Wipe Partition	Check File System	System Res C:(NTF	-S) (Unallocated)				
E]) Set Label	🗯 Convert FAT to NTFS	GB 549 MB (Use 30.0 G					
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Hide Partition	Modify 🕨						
		E:(NTFS) GB 128.1 GB,Simple		(Ext2) ( 8 MB,Simple 1	Unallocated)		

Step 2. A dialog box appears. Now, users can label/relabel the selected partition, and then click **OK** button to go back to the main interface.

neral View Disk Parti	don D	ynamic Disk Wizard Help							i Too
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pply Undo Discard I	Data Reco	overy Partition Recovery Disk Ben	chmark Space Ana	lyzer			Bootable	e Media	Manu
Change Partition		Partition	Capacity	Used	Unused	File Syster	m	Тур	e
Move/Resize Partition	Ŭ	*:	469.46 GB	0 B	469.46 GB	Unalloc	ated		Logical
Extend Partition		Disk 2 (VMware, VMv	vare Virtual S SAS, (	GPT, 3.00 TB)					
Merge Partition		F:	1024.11 GB	207.99 MB	1023.90 GB	NTE	5		GPT (Data
C Split Partition		· ·	1022.00 00	207.33 110	1020.00 00	NTES	-		GPT (Data
Change Cluster Size		🖄 Change Partition Label:				× Unalloc			GPT (Data
Convert NTFS to FAT						Unalloc	ated		GPT
Partition Management	$\bigcirc$	Changing the label for	or the selected partit	tion:					
Delete Partition	<u> </u>					NTES	5		Simple
Format Partition		Partition Label: Photos				Ext2	2		Simple
Copy Partition		Change Partition Label T	<u>utorial</u>	ОК	Cancel				
邑 Align Partition									,
Wipe Partition		Disk 1 MBR System Res	C:(NTES) (Una	allocated)					
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Change Drive Letter		Disk 2							
Change Partition Type ID	)	GPT F:(NTFS)		G:(NTFS)			ocated)		
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뉴서 Hide Partition		Disk 3							
Check Partition	$\bigcirc$	MBR E:(NTFS) 256.00 GB 128.1 GB,Si	mple		(Ext2) 8 MB,Simple	(Unallocated)			

√ ५ X							<u>©</u>
pply Undo Discard Di	ata Reco	very Partition Recov	ery Disk Benchmark Space A	Analyzer			Bootable Media Man
Change Partition		Partition	Capacity	Used	Unused	File System	Туре
Move/Resize Partition		*:	469.46 GI	B OB	469.46 GB	Unallocate	d 🗖 Logical
Extend Partition		🥌 Disk 2 (	/Mware, VMware Virtual S SA	S, GPT, 3.00 TB)			
S Merge Partition		F:Photos	1024.11 G	B 207.99 MB	1023.90 GB	NTFS	🗖 GPT (Dat
C Split Partition		G:	1023.89 G		1023.69 GB	NTFS	GPT (Dat
Change Cluster Size		*.	1024.00 G		1024.00 GB	Unallocate	
Convert NTFS to FAT							a 🖬 GFI
Partition Management		🥌 Dynami	c <b>Disk</b> ("Disk 3, VMware, VMw	are Virtual S SAS	, MBR, 256.00 GB	")	
Delete Partition	Ŭ	E:	128.08 G	B 108.01 MB	127.97 GB	NTFS	Simple
Format Partition		*:	8.00 MI	B 263.00 KB	7.74 MB	Ext2	Simple
Copy Partition							
昌 Align Partition		•					
✓ Wipe Partition		Disk 1	System Res C:(NTFS) (	(upplicented)			
E] Set Label		500.00 GB	549 MB (Use 30.0 GB (Use 4	Unallocated) 469.5 GB			
E Change Drive Letter		Di-lu a				)	
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Change Serial Number		3.00 TB	1024.1 GB (Used: 0%)	1023.9 G	B (Used: 0%)	1024.0 G	B
Hide Partition		Disk 3					
Check Partition		MBR 256.00 GB	E:(NTFS) 128.1 GB,Simple		(Ext2) ( 8 MB,Simple 1	Unallocated)	

Step 3. Finally, click **Apply** to execute all changes.

# 27. Change Cluster Size

### 27.1 About Change Cluster Size

As we know, <u>cluster</u> is the smallest logical unit of disk space that can be allocated to hold and manage a file in Windows operating systems. One cluster can only hold one file, but one file can take up multiple clusters.

If users save large files to file system with small clusters, data read-write speed will be reduced. If they save small files to file system with large clusters, a lot of disk space will be wasted. Therefore, it is very necessary to change cluster size reasonably, and Change Cluster Size feature in MiniTool Partition Wizard can help do this operation with ease. Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

### 27.2 How to Change Cluster Size

Step 1. Launch MiniTool Partition Wizard, then select the partition whose cluster size is not reasonable and choose **Change Cluster Size** from the left pane.

neral View Disk Pa	rtition Dyr	namic Disk Wizard Help					Mini	100
∕ ∽ X				)			©_	
oply Undo Discard	Data Recov	very Partition Recovery Disk Be	nchmark Space An	alyzer			Bootable Media	Manu
Wizard	<ul> <li>1</li> </ul>	Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	Disk 1 (VMware, VM	ware Virtual S SAS,	MBR, 500.00 0	GB)			
Copy Partition Wizard     Copy Disk Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Print	ary
EP COPY DISK WIZU'U		C:	59.46 GB	21.92 GB	37.54 GB	NTFS	Prim	ary
Change Partition	$\odot$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	🗖 Prim	ary
Move/Resize Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Extend Partition		J:	58.85 GB	96.84 MB	58.75 GB	NTFS	🗖 Logi	cal
Merge Partition     Split Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	cal
Change Cluster Size		🛶 Disk 2 (VMware, VM	ware Virtual S SAS,	MBR, 256.00 0	GB)			
Convert NTFS to FAT		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Prim	ary
品 Set Partition as Logical		К:	68.53 GB	66.96 MB	68.47 GB	NTFS	Prim	ary
Partition Management		н:	74.64 GB	97.34 MB	74.54 GB	NTFS	Prim	ary
Delete Partition		•						
Format Partition		Disk 1				- 1		
Copy Partition		MBR System Res		NTFS)	E:(NTFS)	J:(NTFS)		1.000
음 Align Partition		549 MB (Us	# 59.5 GB (Us) 10	8.4 GB (Used: (	134.4 GB (Used	I: 0%) <u>∬</u> 58.8 GB (	Usi 138.4 GB (Use	ed: 0%
Wipe Partition		Disk 2						
E]) Set Label		MBR G:(NTFS) 256.00 GB 112.8 GB (1	Ised: 0%)		K:(NTFS) 68.5 GB (Used		(NTFS) .6 GB (Used: 0%)	

Step 2. Choose a suitable cluster size from the drop-down list and click **Yes** to go back to the main interface.

趥 Mi	niTool Partition Wizard	Pro 11			– = ×
Gener	al View Disk Pa	artition Dy	namic Disk Wizard Help		Mini Tool
$\checkmark$	Υ				
Apply			very Partition Recovery Disk Benchmark Space Analyzer		Bootable Media Manual
Wiz		$\odot$	Partition Capacity Used Unused	File System	Туре
Lá	Migrate OS to SSD/HD	Wizard	Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)		
®	Copy Partition Wizard Copy Disk Wizard		*:System Reserved 549.00 MB 374.37 MB 174.63 MB	NTFS	Primary
Cha	nge Partition	$\bigcirc$	🟂 Change Cluster Size 🛛 🗙	NTFS	<ul> <li>Primary</li> <li>Primary</li> </ul>
	Move/Resize Partition				
ß	Extend Partition		Are you sure you want to change cluster size for partition "F: ( Disk 1 Partition 3 )"?	NTFS	Logical
5	Merge Partition		Current cluster size is 8 sectors, 4 KB (4096 Bytes). Smaller clusters	NTFS	Logical
쾨	Split Partition		may provide more effective usage of disk space.	NTFS	Logical
-0	Change Cluster Size		Please enter new cluster size in sectors: 8		
65	Convert NTFS to FAT		1	NTFS	Primary
몲	Set Partition as Logica	I	Change Cluster Size Tutorial	NTFS	Primary
Par	tition Management	$\odot$	H: 74.64 GB 97.34 16	NTFS	Primary
Ŵ	Delete Partition		٠ 64		•
0	Format Partition		Disk 1		
Ġ	Copy Partition		MBR         System Resi         C:(NTFS)         F:(NTFS)         E:(NTFS)           500.00 GB         549 MB (Ust         59,5 GB (Ust         108,4 GB (Used: 0)         134,4 GB (Used: 0)	J:(NTFS)	I:(NTFS)
	Align Partition		500.00 GB 549 MB (Use 59.5 GB (Usi 108.4 GB (Used: C 134.4 GB (Used: 0%	)58.8 GB (U	s 138.4 GB (Used: 0%)
Ø	Wipe Partition		Disk 2		
E])	Set Label		MBR G:(NTFS) 256.00 GB 112.8 GB (Used: 0%) K:(NTFS) 68.5 GB (Used: 0%)		NTFS) 5 GB (Used: 0%)
	Chango Drivo Lottor PT/Primary 🔲 Logica	al 🔲 Simp	e Spanned Striped Mirrored RAID5 Unallocated		<b>() ¥ ()</b>

Step 3. Click **Apply** button on the top to perform pending operations.

eneral View	Disk Pa	rtition Dyr	namic Disk Wizard	Help					141	ni Too
~ ~	$\times$		inne							
pply Undo	Discard	Data Recov	very Partition Recov	ery Disk Bend	hmark Space	Analyzer			Bootable Med	lia Manu
Wizard		<ul> <li>1</li> </ul>	Partition		Capacity	Used	Unused	File System	Тур	e
Migrate OS	to SSD/HD	Wizard	🥌 Disk 1 (	VMware, VMwa	are Virtual S S/	AS, MBR, 500.00	GB)			
Copy Partic			*:System R	eserved	549.00 ME	374.37 MB	174.63 MB	NTFS		Primary
⊡ Сору Ызк 1	vizaru		C:		59.46 G	3 21.92 GB	37.54 GB	NTFS		Primary
Change Partiti		$\odot$	F:		108.43 G	3 107.35 MB	108.33 GB	NTFS		Primary
Move/Resiz			E:		134.35 G	3 108.23 MB	134.25 GB	NTFS		Logical
Extend Part			J:		58.85 G	3 96.84 MB	58.75 GB	NTFS		Logical
C Merge Part			I:		138.36 G	3 108.28 MB	138.25 GB	NTFS		Logical
Change Clu			🥌 Disk 2 (	VMware, VMwa	are Virtual S S/	AS, MBR, 256.00	GB)			5
Convert NT	FS to FAT		G:		112.83 G	3 107.50 MB	112.72 GB	NTFS		Primary
品 Set Partitio	n as Logical		K:		68.53 G		68.47 GB	NTFS		Primary
Partition Mana	gement	$\diamond$	Н:		74.64 G	97.34 MB	74.54 GB	NTFS		Primary
Delete Part	ition		•							
Format Par	tition		Disk 1				۱ <u> </u>	Ϋ́,		
Copy Partit	ion		MBR 500.00 GB			F:(NTFS)	E:(NTFS)	J:(NTFS)	I:(NTFS)	(U
음 Align Partit	ion		500.00 GB	549 MB (Use	29.5 GB (USI)	108.4 GB (Used:	C 134.4 GB (Use	ea: 0%) _[58.8 GB (	Usi∬138.4 GB	(Used: 0%)
🖉 Wipe Partit	ion		Disk 2							
E]] Set Label			MBR 256.00 GB	G:(NTFS) 112.8 GB (Us			K:(NTFS) 68.5 GB (Use		(NTFS) .6 GB (Used: 0	

#### Tricks

1. If the purpose of increasing cluster size is to break the 16TB partition size limit, users can extend this partition directly with the <u>Move/Resize Partition</u> or <u>Extend Partition</u> feature. During this process, MiniTool Partition Wizard will increase cluster size automatically. With the added free space, the program should complete the increasing faster.

2. If the partition doesn't have much free space left, MiniTool Partition Wizard may fail to change cluster size. In this case, we suggest extending the partition first, and then change cluster size manually.

### 28. Change Serial Number

### 28.1 About Change Partition Serial Number

Partition serial number is a unique number assigned to hard drive during the creation of file system. It originated in the 1950s in the mainframe computer operating system. In FAT and NTFS file systems, partition serial number is a feature used to determine if the disk is present in a drive, and to detect if it was exchanged with another one.

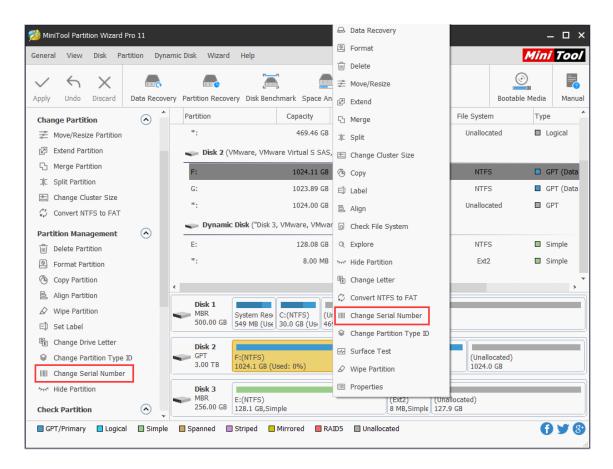
The serial number is a 32-bit number determined by the date and time on the real-time clock on the current computer at the time of a disk's formatting. If the serial number is discrete, users can change it. And, MiniTool Partition Wizard is the best choice to complete this operation.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

### 28.2 How to Change Partition Serial Number

MiniTool Partition Wizard Tutorial offers the detailed operation steps as follows:

Step 1. Select the target partition, and then click **Change Serial Number** from the Partition Management group of the left action panel or from right-click menu.



Step 2. Input new serial number in the new window and click Yes to go back to the main interface.

eneral View Disk Partit	ion D	ynamic Disk Wizard Help							<u>í Too</u>
∕ ← X			5 🚔				0		
pply Undo Discard D	ata Rec	overy Partition Recovery Disk Bend	hmark Space Ana	lyzer			Bootable	e Media	Manu
Change Partition		Partition	Capacity	Used	Unused	File Syst	em	Тур	e
Move/Resize Partition	Ŭ	*:	469.46 GB	0 B	469.46 GB	Unallo	cated		Logical
Extend Partition		Disk 2 (VMware, VMw	are Virtual S SAS,	GPT, 3.00 TB)					
S Merge Partition		F:	1024.11 GB	207.99 MB	1023.90 GB	NT	FS		GPT (Data
□ Split Partition		🐞 Change Partition Serial Numbe		207100 110	1025/00 00		FS		GPT (Dat
🖭 Change Cluster Size			:1				cated		
Convert NTFS to FAT		Are you sure you wa Disk 2 Partition 1 )"?	nt to change seri	al number of	partition "F: (	Unalic	Icaleu		ari
Partition Management	$\bigcirc$	Your computer may no I	onger boot or work	correctly.					
Delete Partition		Please enter new serial number i	n hexadecimal form	at: 1d48160d	56d2351	NT	FS		Simple
Format Partition						Ð	t2		Simple
Copy Partition		(2) Change Partition Serial Num	ber Tutorial	Yes	No				
Align Partition		Disk 1							
Wipe Partition		MBR System Res	C:(NTFS) (Un	allocated)					
E]) Set Label		500.00 GB 549 MB (Use	30.0 GB (Usi 469	.5 GB					
Change Drive Letter		Disk 2				1			
Change Partition Type ID		GPT F:(NTFS) 3.00 TB 1024 1 GB (I	1	G:(NTFS)	(Used: 00())		allocated)		
Change Serial Number		3.00 TB 1024.1 GB (L	Sed: 0%)	1023.9 GE	8 (Used: 0%)	儿1024	4.0 GB		
<sup>か</sup> イ Hide Partition		Disk 3							
Check Partition		MBR E:(NTFS) 256.00 GB 128.1 GB,Sin	nple		(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB			

eneral View Disk Partiti	on Dyr	namic Disk Wizard Help					Mini Too
pply Undo Discard Di	ata Recov		enchmark Space An	alyzer		<u> </u>	le Media Mar
Change Partition	$\bigcirc$	Partition	Capacity	Used	Unused	File System	Туре
Move/Resize Partition	Ŭ	*:	469.46 GB	0 B	469.46 GB	Unallocated	Logical
Extend Partition		Disk 2 (VMware, VI	Mware Virtual S SAS,	GPT, 3.00 TB)			
G Merge Partition		F:	1024.11 GB	207.99 MB	1023.90 GB	NTFS	🔲 GPT (Dat
C Split Partition		G:	1023.89 GB	207.95 MB	1023.69 GB	NTFS	GPT (Dat
Change Cluster Size		*.	1023.09 GB	207.95 MB	1023.09 GB	Unallocated	GPT
Convert NTFS to FAT			1024.00 GB	UB	1024.00 GB	Unallocated	GP1
Partition Management	$\bigcirc$	<b>Dynamic Disk</b> ("Dis	k 3, VMware, VMwar	e Virtual S SAS,	MBR, 256.00 GB"	)	
Delete Partition	Ŭ	E:	128.08 GB	108.01 MB	127.97 GB	NTFS	Simple
Format Partition		*:	8.00 MB	263.00 KB	7.74 MB	Ext2	Simple
Copy Partition							
昌 Align Partition		·					
		Disk 1 MBR System R	es C:(NTFS) (Ur	nallocated)			
E] Set Label			Jst 30.0 GB (Ust 46				
Change Drive Letter		Disk 2					
Change Partition Type ID		GPT F:(NTFS)		G:(NTFS)		(Unallocated)	
IIII Change Serial Number		3.00 TB 1024.1 GE	8 (Used: 0%)	1023.9 GE	(Used: 0%)	1024.0 GB	
누~ Hide Partition		Disk 3					
Check Partition	$\bigcirc$	MBR E:(NTFS) 256.00 GB 128.1 GB,	Simple		(Ext2) (U 8 MB,Simple 12	Inallocated) 27.9 GB	

Step 3. Click Apply button on the toolbar to execute this change.

When all operations are done, users can view new partition serial number by clicking the partition and choosing <u>Properties</u>.

# 29. Change Partition Type ID

### 29.1 About Change Partition Type ID

For MBR-style partition, each partition has one partition type ID, so the system can tell the type of partitions by the ID. There are many partition type IDs, and the following IDs are frequently used:

- 0x07 NTFS
- 0x0B FAT32, used by DOS & Win95
- 0x0C FAT32 using LBA mode to access to FAT32 partition
- 0x01 FAT12
- 0x04 FAT16, less than 32 MB
- 0x06 FAT16, greater than 32 MB

• 0x0E FAT16 using LBA mode to access to FAT16 partition

Usually GPT hard drive has EFI system partition or Microsoft reserved partition, which refers to the partition type ID. When there is a special need, users may want to change the partition type ID. MiniTool Partition Wizard provides users a feature to change type ID on GPT disk.

### 29.2 How to Change Partition Type ID

**Change Partition Type ID** is very simple. Only three steps are required to complete this job. The following is the MiniTool Partition Wizard tutorial.

Step 1. Select or right-click the partition and click Change Partition Type ID from the action panel or pop-up menu.

🯄 Mir	niTool Partit	tion Wizard	Pro 11					Data Recovery			-	. 🗆 X
Genera	al View	Disk Pa	artition Dyn	amic Disk Wizard	Help		_	Format		М	lini	Tool
					-	-	Ŵ	Delete		~		_
$\checkmark$	5	$\times$		inne	<u></u>		ţ	Move/Resize		<u></u>		
Apply	Undo	Discard	Data Recov	ery Partition Recove	ry Disk Bend	hmark Space	Ø	Extend		Bootable Me	edia	Manual
Part	tition Mana	agement	○ ^	Partition		Capacity	S	Merge	File Syste	m	Туре	^
Ŵ	Delete Part	tition		*:		469.46 0	_	Split	Unalloc	ated		gical
0	Format Par	rtition		Disk 2 (V	Mware, VMw	are Virtual S S/						
Ċ	Copy Partit	tion			invare, vinv			Change Cluster Size				
00	Align Partit	tion		F:		1024.11 0	٢	Сору	NTE	S	🗖 GI	PT (Data
Ø	Wipe Partit	tion		G:		1023.89 0	Ē	Label	NTF	S	GI GI	PT (Data
ED	Set Label			*:		1024.00 0	8	Align	Unalloc	ated	🔲 GI	т
₽ <u></u>	Change Dri	ive Letter		🛶 Dynamic	Disk ("Disk 3	, VMware, VMv	Q	Check File System	<b>b</b>			
	Change Pa	rtition Type	e ID	E:		128.08 0			NTE	c	🗆 Si	
	Change Se	rial Numbe	r									
<b>*</b> +*	Hide Partiti	ion		*:		8.00 N	پىنىر	Hide Partition	Ext	2	Si	mple
Cho	ck Partitio	n					Pe	Change Letter				•
	Check File		0	Disk 1			¢	Convert NTFS to FAT				
	Explore Pa	1		MBR 500.00 GB	System Res	C:(NTFS) 30.0 GB (Us	101	Change Serial Number				
	Surface Te	st			549 MB (USE	30.0 GB (USI)	8	Change Partition Type ID				
	Partition Pr	roperties		Disk 2			-^-	Surface Test		a anta d'		
æ	Data Recov	/ery		3.00 TB	F:(NTFS) 1024.1 GB (L	Jsed: 0%)	Ø	Wipe Partition	1024.	ocated) 0 GB		
0 Op	erations I	Pending		Disk 3				Properties				
		5		MBR	E:(NTFS)		_		Inallocated)			
			•	256.00 GB	128.1 GB,Sin	nple		8 MB,Simple ⊥1	27.9 GB			
🗖 GI	PT/Primary	Logic	al 🔲 Simple	Spanned	Striped	Mirrored	RAID	5 🔲 Unallocated			f	<b>Y 8</b>

Step 2. Choose a partition type ID from the list or enter ID manually according to actual need. And then click **Yes** button to go back to the main interface.

< < ×				5				٢	1	
pply Undo Discard Da	ata Recove	ry Partition Recov	ery Disk Ben	chmark Space	Analyzer			Bootable I	Aedia	Manu
Partition Management	<ul> <li>^</li> </ul>	Partition		Capacity	Used	Unused	File Syste	m	Туре	3
Delete Partition		*:		469.46 G	в ов	469.46 GB	Unalloc	ated		ogical
Format Partition		Dick 2 (	(Muero )/Mu	aro Virtual C CA	C CPT 2 00 TP)					
Copy Partition	🯄 Ch	ange Partition Type	ID				×			
Align Partition		<u> </u>		1			NTF	S		SPT (Data
Wipe Partition		Are you sure Partition 1 )"?		change partit	ion ID of the pa	rtition "F: ( Dis	k 2 NTF	S		GPT (Data
E]] Set Label							halloc	ated		PT
Change Drive Letter		nt type ID is "EBD0A nt some operating s				g partition 10 mi	gnt			
	I Ple	ase select predefir	ed ID from th	e list:			NTE	5		Simple
Change Serial Number		BD0A0A2-B9E5-443				Partition	•			
누~ Hide Partition		212A7328-F81F-110 21686148-6449-6E6					Ext	2		Simple
Check Partition		3BFE2DE-3DAF-11 4019732-066E-4E1				) Partition				,
Check File System	B	FBFAFE7-A34F-44	A-9A5B-6213	EB736C22 - Len	ovo Boot Partition					
Q Explore Partition		3C9E316-0B5C-4D BD0A0A2-B9E5-44					0			
Surface Test		808C8AA-7E8F-42								
Partition Properties	D	E94BBA4-06D1-4D	40-A16A-BFD5	0179D6AC - Wi	ndows - Recovery	Environment				
Data Recovery		GPT 3.00 TB	F:(NTFS) 1024.1 GB (	Jsed: 0%)	G:(NTFS) 1023.9 G	8 (Used: 0%)	(Unal 1024.	located) 0 GB		
0 Operations Pending		Disk 3								
		MBR 256.00 GB	E:(NTFS) 128.1 GB,Sir			(Ext2) 8 MB,Simple	(Unallocated)			

Step 3: Click **Apply** to execute this change.

√ h X			<u>(</u>				<u></u>	
pply Undo Discard		ery Partition Recov	ery Disk Benchmark Sp	bace Analyzer			Bootable M	edia Man
Partition Management	• •	Partition	Capacit	ty Used	Unused	File Syste	m	Туре
Delete Partition		*:	469	.46 GB	0 B 469.46 G	B Unalloc	ated	Logical
<ul> <li>Format Partition</li> <li>Copy Partition</li> </ul>		🥌 Disk 2 (\	/Mware, VMware Virtual	S SAS, GPT, 3.00	ТВ)			
邑 Align Partition		F:	1024	.11 GB 207.99	MB 1023.90 G	B NTF	S	🗖 GPT (Dat
		G:	1023	.89 GB 207.95	MB 1023.69 G	B NTF	S	GPT (Dat
E] Set Label		*:	1024	.00 GB	0 B 1024.00 G	3 Unalloc	ated	GPT
🖺 Change Drive Letter		🥌 Dynamie	: <b>Disk</b> ("Disk 3, VMware,	VMware Virtual S	SAS, MBR, 256.00	GB")		
Change Partition Type II		E:	128	.08 GB 108.01	MB 127.97 G	B NTF	S	Simple
Change Serial Number		*:	8.	.00 MB 263.00	) KB 7.74 MI	B Ext	2	Simple
~~ Hide Partition			-				-	
Check Partition	$\odot$	•						,
Check File System		Disk 1						
Q Explore Partition		MBR 500.00 GB	System Res C:(NTFS) 549 MB (Us∈ 30.0 GB (					
Surface Test		L						
Partition Properties		Disk 2	F:(NTFS)	C:(N	TFS)	(Upal	located)	
🕀 Data Recovery		3.00 TB	1024.1 GB (Used: 0%)		8.9 GB (Used: 0%)	1024.		
1 Operations Pending		Disk 3						
<ol> <li>Change Partition Type I</li> </ol>	D: (	MBR 256.00 GB	E:(NTFS) 128.1 GB,Simple		(Ext2) 8 MB,Simple	(Unallocated)		

# 30. Explore Partition

### 30.1 About Explore Partition

Explore Partition feature ensures that it is the partition users want to modify. For example, when users are managing partitions under boot mode, it is difficult to identify each partition because **drive letter** can be disordered.

Besides, it is convenient for you to explore partition at first and then manage it within the same utility even in Windows. So, how to explore partition? Please read this MiniTool Partition Wizard Tutorial.

Note: MiniTool Partition Wizard only supports the exploration of FAT12, FAT16, FAT32, and NTFS partitions.

### 30.2 How to Explore Partition

eneral	View	Disk Pa		manne	Disk Wizard	Help							Τοο
/	$\leftarrow$	$\times$	inny		ím de						<u></u>		
pply	Undo [	Discard	Data Red	overy I	Partition Recov	ery Disk Ben	chmark Space	Analyzer			Bootable M	ledia	Manu
Partiti	ion Manag	ement	$\bigcirc$	*	Partition		Capacity	Used	Unused	File Syster	m	Туре	
前 De	elete Partiti	on			C:		30.00 G	B 18.96 G	B 11.04 GB	NTE		🗖 Pi	
🖳 Fo	ormat Partil	tion			*:		469.46 G	iB 0	B 469.46 GB	Unalloc	ated		ogical
_	opy Partitio				🧼 Disk 2 (	VMware, VMw	are Virtual S SA	AS, GPT, 3.00 T	3)				
	ign Partitio				F:		1024.11 G	B 207.99 M	B 1023.90 GB	NTE	5	G	PT (Data
	'ipe Partitio et Label	n			G:		1023.89 G	B 207.95 M	B 1023.69 GB	NTE	5	G	PT (Data
-	hange Parti	tion Type	ID		*:		1024.00 G	B 0	B 1024.00 GB	Unalloc	ated	G	PT
	hange Seria				👡 Dynami	c <b>Disk</b> ("Disk 3	3, VMware, VMv	vare Virtual S S	AS, MBR, 256.00 G	B")			
sở Se	et Active				E:		128.08 G			, NTE	5	□ S	imple
heck	Partition				*:		8.00 M	IB 263.00 K		Ext2	2	□ S	
Q Ch	heck File Sy	/stem	0	•									<u> </u>
Q Ex	cplore Parti	tion			Disk 1								
- Su	urface Test				500.00 GB	System Rese 549 MB (Use	C:(NTFS) 30.0 GB (Us	(Unallocated) 469.5 GB					
💷 Pa	artition Prop	perties		-									
🕀 Da	ata Recover	ry			Disk 2 GPT	F:(NTFS)		G:(NTF			ocated)		
) Oper	rations Pe	nding		I	3.00 TB	1024.1 GB (l	Jsed: 0%)	1023.9	GB (Used: 0%)	1024.	0 GB		
-		-			Disk 3 MBR 256.00 GB	E:(NTFS) 128.1 GB,Sir	mle		(Ext2) 8 MB,Simple	(Unallocated)			

Step 1. Select the target partition, and then choose Explore Partition from action panel.

Step 2. This software lists all files in this partition with a tree structure. There you can view File Name, File Size, Creation Time and Modified Time altogether.

/ 6		r1	-		
pply Undo	Dartition Explorer				□ × edia M
Partition Ma	Name	Creation Time	Modified Time	Size	Туре
Delete P	E My Computer				Primar
Format F	🕸 🚞 Windows	2018-4-12 5:4:33	2018-11-16 13:7:15		
-	🖶 🦳 Users 🕀 🛄 System Volume Information	2018-4-12 5:4:33 2018-5-9 7:35:20	2018-10-30 18:48:0 2018-11-21 18:54:38		Logical
~ · ·	🖶 🧰 Recovery	2018-10-31 9:22:11	2018-11-16 11:48:21		
을 Align Par	🖶 🧮 ProgramData 🕸 🛅 Program Files (x86)	2018-4-12 7:38:20 2018-4-12 7:38:20	2018-11-13 18:33:25 2018-11-19 9:4:17		GPT (D
🖉 Wipe Pa	🖶 🪞 Program Files 🔪	2018-4-12 7:38:20	2018-11-19 19:3:23		
E]) Set Labe	PerfLogs Documents and Settings	2018-4-12 7:38:20 2018-5-9 7:42:1	2018-4-12 7:38:20 2018-5-9 7:42:1		GPT (D
Schange	🖨 🧰 Boot	2018-11-16 11:48:1	2018-11-16 11:48:1		GPT
Change :	inte_10_64	2018-11-16 11:48:1 2018-11-16 11:48:7	2018-11-16 11:48:7 2018-10-31 10:32:30	364.63 MB	
	🕀 🫅 \$Recycle.Bin	2017-9-29 21:46:33	2018-10-30 13:22:31		
🖈 Set Activ	pagefile.sys	2018-10-30 18:43:45 2018-10-30 18:43:46	2018-11-21 8:34:29 2018-11-21 8:34:29	640.00 MB 256.00 MB	Simple
Check Partit		10 00 101010			Simple
Q Check Fi					
Q Explore F					
Partition					
🗟 Data Rec					
Operation					
operation	Explore Partition Tutorial				Close
	MBR	E:(NTFS)		(Ext2) (Unallocated)	

# 31. Hide/Unhide Partition

## 31.1 About Hide/Unhide Partition

It is a common sense that lots of users are accustomed to store valuable photos, business documents and personal files to computer hard drives. In this case, many users don't want others to access their confidential files without permission.

At this time, they can choose to hide that partition, so that the files can never be seen by malicious people. Users themselves can't see the hidden partition in the computer, either. So if they need to make the partition accessible to all, they should unhide partition.

Common situations where users need to hide/unhide partition:

- If users have installed multiple operating systems on the same computer, they'd better hide the other <u>system partitions</u> for the sake of file integrity.
- Users might want to hide the disk partition which includes recovery tools or other kinds of significant files.

- To manage or use files in a hidden partition, users need to unhide the partition at first.
- If users want to share the files in a hidden partition with families or friends, they should unhide it.

### 31.2 How to Hide/Unhide Partition

Lacking related experience and knowledge, ordinary users often don't have a clear idea of how to hide/unhide partition. MiniTool Partition Wizard offers a good way to help them hide/unhide partition conveniently and safely.

### 31.2.1 How to Hide Partition

Step 1. Open the software and enter its main interface. Then, select the target partition and choose **Hide Partition** from the left action panel or right-click menu.

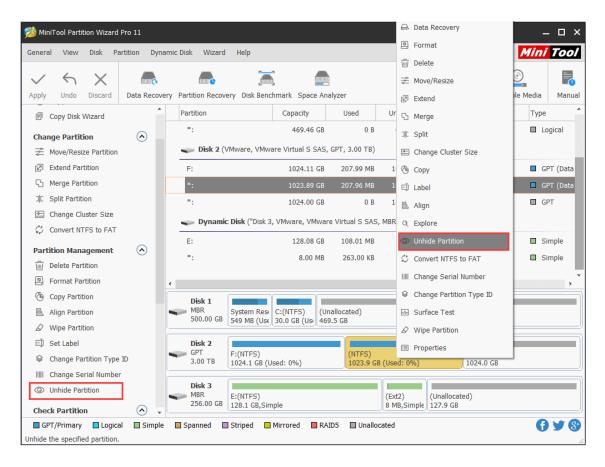
🟄 MiniTool Partition Wizard Pro 11					📾 Data Recovery	_ 🗆 ×
General View Disk Partition Dynar	nic Disk Wizard Help				Format	Mini Tool
					前 Delete	
く ら X 局					😤 Move/Resize	2. 🗟
Apply Undo Discard Data Recover	y Partition Recovery Disk Bend	chmark Space An	alyzer		☑ Extend	le Media Manual
Delete Partition	Partition	Capacity	Used	Un	🖞 Merge	Туре
Format Partition	*:	469.46 GB	0 B	4	⊐C Split	Logical
🕒 Copy Partition	🛶 Disk 2 (VMware, VMw	are Virtual S SAS,	GPT, 3.00 TB)		E Change Cluster Size	
을 Align Partition		1004 11 00	207.00 MD		-	
	F:	1024.11 GB	207.99 MB	10	🕭 Сору	GPT (Data
E∏ Set Label	G:	1023.89 GB	207.95 MB	10	ED Label	GPT (Data
🖷 Change Drive Letter	*:	1024.00 GB	0 B	10	을 Align	GPT
Change Partition Type ID	www.appendic Disk ("Disk 3	8, VMware, VMwar	e Virtual S SAS,	MBR,	Check File System	
IIII Change Serial Number	E:	128.08 GB	108.01 MB	1	Q Explore	□ Simple
∽⊷ Hide Partition	*:	8.00 MB	263.00 KB	ſ	께 Hide Partition	□ Simple
Check Partition					🕆 Change Letter	
Q Check File System	•	vv			Convert NTFS to FAT	,
Q Explore Partition	Disk 1 MBR System Rese	C:(NTFS) (Ur	nallocated)		IIII Change Serial Number	
Surface Test		30.0 GB (Us) 46			Change Partition Type ID	
Partition Properties	Disk 2				<ul> <li>Change Partition Type ID</li> </ul>	
🕀 Data Recovery	GPT F:(NTFS)		G:(NTFS)		🐼 Surface Test	
0 Operations Pending	3.00 TB 1024.1 GB (L	Jsed: 0%)	1023.9 GB	l (Use		ļ]
	Disk 3				Properties	
	MBR E:(NTFS) 256.00 GB 128.1 GB,Sin	nalo		(Ext2	) (Unallocated) Simple 127.9 GB	
		lible		<u>л о мв</u>	Sumple 127.5 00	
🔲 GPT/Primary 📃 Logical 🔲 Simple	Spanned Striped	Mirrored 📃 RA	ID5 🔲 Unalloc	cated		f) y 😵

Step 2. Then the target partition is shown without partition letter on the interface. Click **Apply** to save the change.

neral View Disk Partition Dyr	namic Disk Wizard Help						ni Too
/ S X 🛛 🛲						<u></u>	
ply Undo Discard Data Recov	very Partition Recovery Disk Bend	chmark Space Ana	lyzer			Bootable Med	ia Manu
Delete Partition	Partition	Capacity	Used	Unused	File Syster	m T	ype
S Format Partition	*:	469.46 GB	0 B	469.46 GB	Unalloca	ated 🔲	Logical
Copy Partition	🧼 Disk 2 (VMware, VMw	are Virtual S SAS,	GPT, 3.00 TB)				
✓ Wipe Partition	F:	1024.11 GB	207.99 MB	1023.90 GB	NTFS	5 🗖	GPT (Dat
E] Set Label	*:	1023.89 GB	207.95 MB	1023.69 GB	NTFS	5 🗖	GPT (Dat
Change Partition Type ID	*:	1024.00 GB	0 B	1024.00 GB	Unalloca	ated 🔲	GPT
Change Serial Number O Unhide Partition	Dynamic Disk ("Disk 3     E:	3, VMware, VMware	e Virtual S SAS, 108.01 MB	MBR, 256.00 GB	') NTES		Simple
heck Partition	*.	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Q Explore Partition		0.00 110	205.00 10	7.71110	LAL		Simple
저 Surface Test	•						
<ul> <li>Partition Properties</li> </ul>	Disk 1 MBR System Res	C:(NTFS) (Un	allocated)				
🗟 Data Recovery	500.00 GB 549 MB (Use	30.0 GB (Usi 469	.5 GB				
<b>Operations Pending</b> - 1. Hide: (G: ( Disk 2 Partition 2	Disk 2 GPT 3.00 TB	Jsed: 0%)	(NTFS) 1023.9 GE	(Used: 0%)	(Unalle 1024.0	ocated) 0 GB	
	Disk 3 MBR 256.00 GB E:(NTFS) 128.1 GB,Sin			(Ext2) (I 8 MB,Simple 1	Jnallocated)		

## 31.2.2 How to Unhide Partition

Step 1. Select the target partition and choose Unhide Partition from the left action panel or right-click menu.



Step 2. There will be a pop-out window which allows users to set a new drive letter to the target partition. Choose a letter and click on **OK** to back to the main interface.

麶 Mi	niTool Partition Wizard P	ro 11							– 🗆 ×
Gener	al View Disk Part	tition Dyn	mic Disk Wizard Help					Min	i Tool
$\checkmark$	Υ							0	
Apply	Undo Discard	Data Recov	ry Partition Recovery Disk Benchmark	Space Analy	zer			Bootable Media	Manual
F	Copy Disk Wizard	Â	Partition Ca	pacity	Used	Unused	File Syster	n Typ	e ^
Cha	nge Partition		*:	469.46 GB	0 B	469.46 GB	Unalloc	ated 🔲	ogical
	Move/Resize Partition	Ŭ	Disk 2 (VMware, VMware Vir	rtual S SAS, GF	РТ, 3.00 ТВ)				
P	Extend Partition		F: 1	L024.11 GB	207.99 MB	1023.90 GB	NTE	5 🔳 (	GPT (Data
5	Merge Partition		*			GB	NTE	5 🗖 (	GPT (Data
쾨	Split Partition		Unhide Partition			× GB	Unalloc	ated 🔲 (	SPT
-0	Change Cluster Size		Set Drive Letter				- 113		
¢5	Convert NTFS to FAT		Current Drive Lette	er: None		00 G	В.,)		
Par	tition Management		E: New Drive Lette	er: G:		▼ 7 GB	NTE	5 🔲 :	Simple
ŵ	Delete Partition	Ŭ	*			MB	Ext2		Simple
0	Format Partition		Unhide Partition Tutoria	(	OK Ca	incel			· ·
Ġ	Copy Partition		Disk 1	- 1					
	Align Partition		MBR System Res C:(N	TFS) (Unall	located)				
Ø	Wipe Partition		500.00 GB 549 MB (Use 30.0	GB (Us) 469.5	GB				
E)	Set Label		Disk 2						
	Change Partition Type I	D	GPT F:(NTFS) 3.00 TB 1024.1 GB (Used: 0	1961	(NTFS)	(Used: 0%)	(Unall 1024,	ocated)	
	Change Serial Number		1024.1 GB (05ed. 0	170)	1023.9 GB	(USeu. 0%)	1024.	J GD	
0	Unhide Partition		Disk 3						
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	CK Partition PT/Primary  Duby	Simple	Spanned Striped Mirror	red 🔲 RAID5	5 🔲 Unalloca	ated		6	
	. ,			_	_				

Step 3. Here, the target partition is shown with the specified drive letter. Then, click on **Apply** to save the change.

eneral View Disk Part	ition Dy	ynamic Disk Wizard	i Help				Min	i Too
✓ ५ X							$\odot$	
pply Undo Discard	Data Reco	overy Partition Reco	very Disk Benchmark Space /	Analyzer			Bootable Media	Manu
Copy Disk Wizard		Partition	Capacity	Used	Unused	File System	Тур	9
Change Partition		*:	469.46 G	В 0В	469.46 GB	Unallocate	ed 🔲 l	ogical
Move/Resize Partition	0	🥌 Disk 2 (	VMware, VMware Virtual S SA	S, GPT, 3.00 TB)				
Extend Partition		F:	1024.11 G	B 207.99 MB	1023.90 GB	NTFS		GPT (Dat
S Merge Partition		G:	1023.89 G	B 207.96 MB	1023.69 GB	NTFS		GPT (Dat
□ Split Partition		*:	1024.00 G	B O B	1024.00 GB	Unallocate	ed 🔲 (	SPT
Change Cluster Size		🥌 Dynam	<b>c Disk</b> ("Disk 3, VMware, VMw	are Virtual S SAS	, MBR, 256.00 GB	")		
Convert NTFS to FAT		E:	128.08 G	B 108.01 MB	127.97 GB	NTES		Simple
Partition Management	$\odot$	*.	8.00 M	B 263.00 KB	7.74 MB	Ext2		Simple
Delete Partition			010011	200100110		LAL		, in pro
Format Partition		•						
Copy Partition		Disk 1						
Align Partition		MBR 500.00 GB		Unallocated)				
Wipe Partition			549 MB (Use 30.0 GB (Use	109.5 GB				
E]) Set Label		Disk 2						
E Change Drive Letter		GPT 3.00 TB	F:(NTFS) 1024.1 GB (Used: 0%)	G:(NTFS)	B (Used: 0%)	(Unalloc 1024.0		
Change Partition Type II	)					), 202.110		
Change Serial Number		Disk 3						
Hide Partition		MBR 256.00 GB	E:(NTFS) 128.1 GB,Simple		(Ext2) ( 8 MB,Simple 1	Unallocated) L27.9 GB		

# 32. Partition Surface Test

## 32.1 About Partition Surface Test

Sometimes, users have difficulty in managing partitions (such as create partition, extend partition, shrink partition and move partition). For example, the partition management tool runs quite slow or even stops running at a time point.

These might be caused by the <u>bad sectors</u> on partition. At this time, users need a partition surface test tool which can help confirm whether there are bad sectors on the target partition.

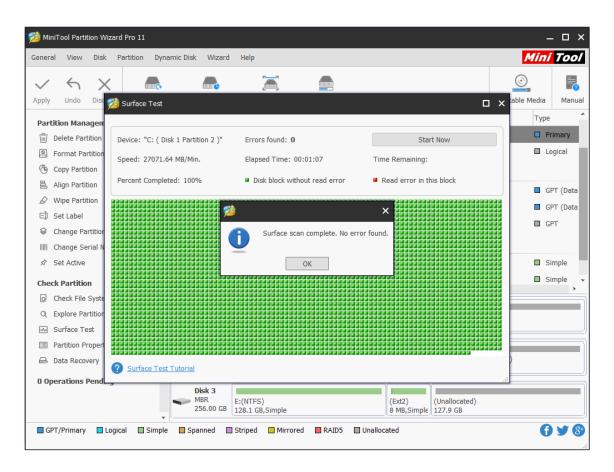
MiniTool Partition Wizard is strongly suggested here since it can scan each partition sector status by reading data from the sector. After scanning, partition block without reading error will be marked with green color, and partition block with reading error will be marked with red.

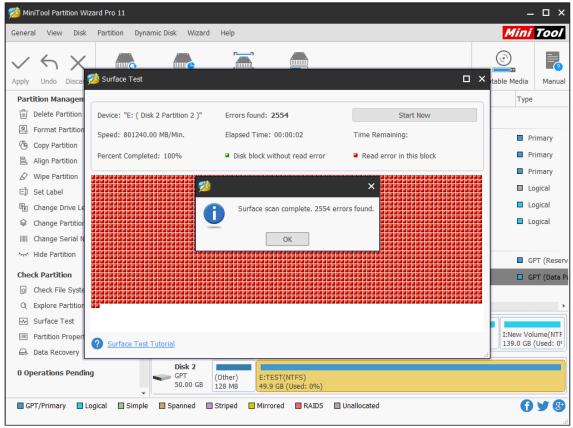
### 32.2 How to Perform Partition Surface Test

Step 1. Click the target partition to be checked and select **Surface Test** from the Check **Partition** group OR from the **Partition** menu.

neral	View Disk	Pa	rtition	Dynamic Disk	Wizar	rd	Help							Mil	ni Tod
/	Ϋ́	-	Move/	/Resize			[							<u>.</u>	
ply	Undo Discar				200	overy	Disk Benc	hmark Space Ar	alyzer				Boota	ble Medi	a Man
Partit	tion Managemer	G	Merge	e				Capacity	Used	1	Unused	File Syst	em	ту	/pe
-	elete Partition	괴	Split					30.00 GB	19.0	)8 GB	10.92 GB	NT	FS		Primary
_	ormat Partition	₽	Data I	Recovery	Г			469.46 GB		0 B	469.46 GB	Unallo	cated		Logical
_ @ 0	Copy Partition	С	Сору		2	(VM	ware, VMw	are Virtual S SAS	, GPT, 3.0	0 TB)					
≧ A	lign Partition	Q	Explor	re	F			1024.11 GB	207.9	9 MB	1023.90 GB	NT	FS		GPT (Dat
ØV	Vipe Partition	<u>+</u>	Creat	e				1023.89 GB	207.9		1023.69 GB	NT	FS		
E) s	Set Label	1	Delete	e				1024.00 GB	20710	0 B	1024.00 GB			_	GPT
\$ C	Change Partition T	8	Align		-1								cutcu		GIT
	Change Serial Nun		-		an	nic D	isk ("Disk 3	, VMware, VMwa	re Virtual	S SAS,	MBR, 256.00 G	B")			
s∕ S	Set Active	_	Forma					128.08 GB	108.0	1 MB	127.97 GB	NT	FS		Simple
Check	Partition	ED	Label		- L			8.00 MB	263.0	00 KB	7.74 MB	Ex	t2		Simple
	Check File System	Ē	Chang	ge Letter	- 1	6		()_							
QE	Explore Partition	Q	Check	c File System			ystem Res	C:(NTFS) (U	nallocated	I)					
	Surface Test	φ	Conve	ert FAT to NTFS	GE	B 5	49 MB (Use	30.0 GB (Us) 46	9.5 GB						
III P	artition Propertie:	\$	Conve	ert NTFS to FAT											
	ata Recovery	-^-	Surfa	ce Test			:(NTFS) 024.1 GB (U	lsed: 0%)		TFS) 23.9 GB	(Used: 0%)		llocated) I.0 GB		
) Ope	erations Pending		Modif	y .		_									
		Ø	Wipe	Partition	GE		:(NTFS) 28.1 GB,Sim	nle			(Ext2) 8 MB,Simple	(Unallocated)			
			Prope	erties		1	2011 00,011	ipio			<u>πο πογοπηριε</u> )	127.0 00			

Step 2. In the new window, click **Start Now** to begin partition surface test. Then, this software will show the result.





After viewing MiniTool Partition Wizard Tutorial above, users can easily make a partition surface test to check whether there are bad sectors on the partition.

### 33. Partition Properties

### 33.1 About Partition Properties

Users can check detailed information of the partitions with P**ropertie**s function. For the partitions recognized by Partition Wizard, this function will show partition properties including detailed file system parameters.

### Usage

- Used space
- Unused space
- Total space

### **Partition Information**

- Partition Type ID
- Partition ID (only for partitions on GPT disk)
- File System
- Serial number
- First Physical Sector
- Last Physical Sector
- Total Physical Sector

### **File System Information**

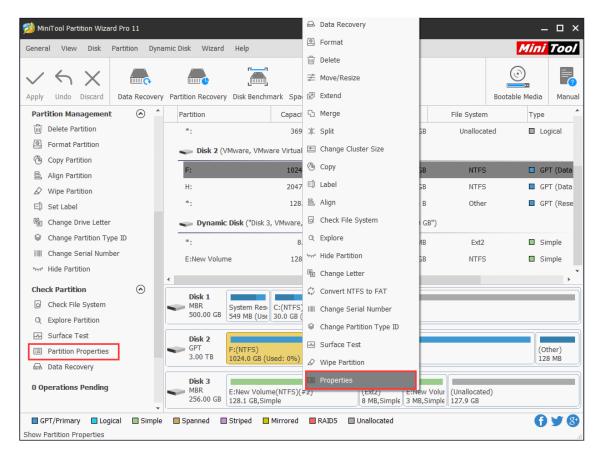
- Sector per Clutter
- Sector per File Record
- Sector per Index Record
- Logical Cluster Number of the \$MFT
- Logical Cluster Number of \$MFTMirr

What's more, Partition Wizard will also provide a pie chart of the partitions so that users can view

the present space of the partitions conveniently and intuitively.

### 33.1 How to View Partition Properties

Step 1. To use this function, right-click the target partition, and then select **Properties** feature to view partition properties.



Step 2. Then in Partition Info tab, users can view the detailed partition information.

neral View Disk Partition	Dynamic Disk Wizard Help		Mini Too
$\langle 5 \times  $	è 🙀 🛄		
ply Undo Discard Data	covery Partition Recovery Disk Benchmark Space Analyzer		Bootable Media Manu
-	Properties	× File System	n Type
Delete Partition	Usage Partition Info File System Info	Unalloca	ated 🔲 Logical
Copy Partition	Partition Type ID: EBD0A0A2-B9E5-4433-87C0-68B6B7269		
昌 Align Partition	Partition ID: 98A40990-8639-01D4-C800-52CC1C43E		
Wipe Partition	File System: NTFS	NTFS	
E]) Set Label	Serial Number: 0x1d48639a387c970	Other	r 🔲 GPT (Res
Change Drive Letter	First Physical Sector: 2048		
Change Partition Type ID	Last Physical Sector: 2147485695	Ext2	Simple
Change Serial Number		NTES	S Simple
Hide Partition	Total Physical Sector: 2147483648 (1024.00 GB)		
Check Partition			
Q Check File System			
Q Explore Partition			
Surface Test	ОК		
Partition Properties	3.00 TB 1024.0 GB (Used: 0%) 2047.9 GB (Used: 0%)	.::	(Other) 128 MB
📾 Data Recovery	1024.0 GB (USed: 0%)		<u>Д 128 МВ</u>
) Operations Pending		lew Volur (Unallocate 18,Simple 127.9 GB	:d)
GPT/Primary 🗖 Logical 🚺	Simple Spanned Striped Mirrored RAID5 Unallocated		() ¥ (

Note: Only basic disk has Partition Type ID and Partition ID. For GPT basic disk, both are displayed. For MBR basic disk, only Partition Type ID can be viewed.

## 34. Data Recovery

## 34.1 About Data Recovery

Data Recovery is designed to recover files from the logically damaged partition, formatted partition, and RAW partition as well as to recover files mistakenly deleted from internal or external hard drives.

Besides, many computer users may have encountered partition loss due to some reasons like system update, hard drive failure, OS corruption, etc. And certainly, data in the partition is lost. Lost partition will be shown in the main interface of Data Recovery, and users can scan the lost partition to recover lost or deleted files after partition loss or deletion.

Note: Data Recovery feature is only available in MiniTool Partition Wizard Pro Ultimate and above edition. For more information, you can check <u>MiniTool Partition Wizard Edition</u> <u>Comparison</u>.

## 34.2 How to Recover Lost Data from Hard Drive

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. To recover files from hard drive, click **Data Recovery** on the top Tool Bar.

≫ Mini⊤ool Partition Wizard Pro Ultir General View Disk Partition	ate 11 - (with lifetime upgrade service) Dynamic Disk Wizard Help	– – × Mini Tool
Apply Undo Discard Data Rec		Bootable Media Manua
Wizard 📀	Partition Capacity Used Unused File System	Туре
Migrate OS to SSD/HD Wizard	Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)	
🕚 Copy Partition Wizard	*:System Reserved 549.00 MB 401.14 MB 147.86 MB NTFS	Primary
Copy Disk Wizard	C: 59.46 GB 21.69 GB 37.77 GB NTFS	Primary
🕞 Partition Recovery Wizard	*: 440.00 GB 0 B 440.00 GB Unallocated	Logical
Partition Management  Create Partition	Disk 2 (VMware, VMware Virtual S SAS, MBR, 256.00 GB)     G: 13.56 GB 95.43 MB 13.46 GB NTFS	Primary
	*: 242.44 GB 0 B 242.44 GB Unallocated	l 🗆 Logical
Check Partition     Image: Comparison of the comparison of		
0 Operations Pending	<	
	Disk 1         System Res         C:(NTFS)         (Unallocated)           500.00 GB         549 MB (Use)         59.5 GB (Use)         (440.0 GB           Disk 2         G:(NTFS)         (Unallocated)         (Unallocated)           256.00 GB         13.6 GB (Use)         242.4 GB	
GPT/Primary Logical S	• []	() ¥ (

Step 3. After launching Data Recovery function, users will enter the following interface where all the detected disk partitions are arrayed by drive letters.

🏂 MiniTool Partition Wizard - Data Recovery	×
Select the device to recover: 🕄	
🙆 Recovery Result	
(G: NTFS) 32.00 GB Date: 2018-12-19 14:13 Load Manually Load recovery result (*.RSS)	1
Solution Sector Sec	<u> </u>
(C: NTFS) 37.77 GB free of 59.46 GB (G: NTFS) 13.46 GB free of 13.56 GB System Reserved(NTFS) 147.86 MB free of 549.00 MB	2
S Lost Partition	
(NTFS) 242.67 GB free of 242.79 GB (NTFS) 197.09 GB free of 197.21 GB	3
Unallocated Space	1 I
Unallocated Space 242.44 GB free of 242.44 GB	4
	_
Hard Disk     WMware, VMware Virtual S SA     S00.00 GB     VMware, VMware Virtual S SA     256.00 GB	5
Sett	ings Scan

Here Data Recovery will list 5 parts, and every part is different from each other.

- **Recovery Result:** this section will show the last scanning result record and you can manually load scanning result to check recovered files directly.
- Logical Drive: this section will show all existing partitions on users' disk, including removable devices like USB drive. For partitions that do not have drive letters, they are arranged at the end of the list.
- Lost Partition: this section will show all lost partitions detected by Data Recovery, and then users can retrieve data from lost partitions.
- Unallocated Space: this section will show all unallocated spaces on users' computer.
- Hard Disk: this section will list all hard disks on the computer. Users can also select a hard disk to scan.

Then, Users can select a partition and click Scan. Here I take partition G as an example.

Data Recovery MiniTool Partition Wizard - Data Recovery		-	□×
Select the device to recover: 😋			
			-
(G: NTFS) 32.00 GB Date: 2018-12-19 14:13	Load Manually Load recovery result (*.RSS)		
S Logical Drive			
(C: NTFS) 37.77 GB free of 59.46 GB	(G: NTFS) I 3.46 GB free of 13.56 GB System Reserved(NTFS) 147.86 MB free of 549.00 MB		
(NTFS) 242.67 GB free of 242.79 GB	(NTFS) 197.09 GB free of 197.21 GB		
O Unallocated Space     ■			
Unallocated Space			
lard Disk			
VMware, VMware Virtual S SA 500.00 GB	VMware, VMware Virtual S SA 256.00 GB		•
	Settings	Scan	

### Kindly reminder:

If the target partition is not listed, please click the refresh icon on the top to refresh this interface. If users want to recover some specified file types on certain partitions, use **Settings** option near the **Scan** button to help. This way can save some scanning time.

🟂 MiniTool Partition Wizard - Data Recovery	×
Select the device to recover: 😋	
Recovery Result     (G: NTFS)     32.00 GB     Date: 2018-12-19 14:13     Load Manually     Load recovery result (*.RSS)	
Scan Settings	×
(C: NTFS) 37.77 GB free of <sup>1</sup> Scan following file systems: V FAT12/16/32 V NTFS V HFS+ ISO9660/Jollet UDF	n Reserved(NTFS) 5 MB free of 549.00 MB
(NTFS)     Image: Constraint of the second of	
<ul> <li>O Unallocated Space</li> <li>⊕ □ □ E-mail</li> <li>⊕ □ □ Database</li> </ul>	
Unallocated Space	
Hard Disk	
VMware, VMware OK Cancel	
	Settings Scan

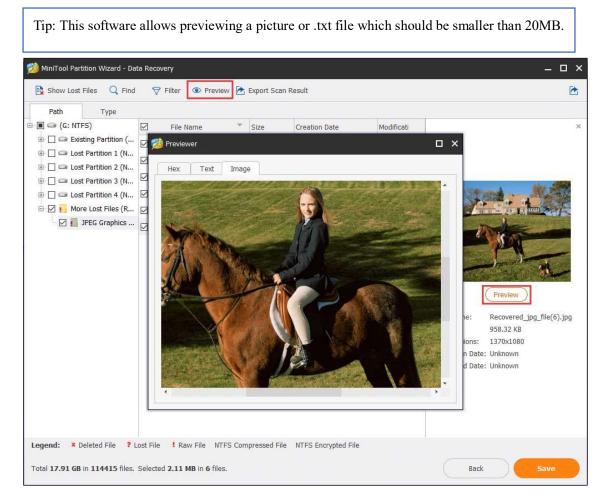
Step 4. See! This software is scanning the selected partition. And it can find the lost or deleted files while scanning. If users have found crucial data, they can click icons in the red box to pause or stop the scan process for instant data recovery.

Note: Right-click a partition and choose **Data Recovery** from the pop-up Windows will get the following interface directly.

鯵 MiniTool Partition Wizard - Da	ta Recovery				-	ο×
Total Files Found To get the bes	d: 91892 t recovery result, please wait	until the full s		aining Time: 00:02:00	22% III  Registe	red
$\mathbb{R}$ Show Lost Files $Q$ Find	🖓 Filter 💿 Preview 🖻	Export Scan R	esult			è
Path Type	File Name	Size	Creation Date	Modificati		×
u □ u Pall Raw Files (6)	<ul> <li>P All Raw Files (6)</li> <li>Searched Partition #1 (13)</li> </ul>	)			Filename: All Raw Files (2) Size: Dimensions: Creation Date: Unknown Modified Date: Unknown	
Legend: X Deleted File ? L	ost File ! Raw File NTFS Com	pressed File	NTFS Encrypted File			
Total 22.35 MB in 19 files. Sele	cted <b>0 B</b> in <b>0</b> files.				Back Save	

Step 5. After completing the scan, users need to find files they need. Then, check some items and click **Save** button.

🏂 MiniTool Partition Wizard - Data Recovery 🗕 🗖					
🔒 Show Lost Files 🛛 🔍 Find	💎 Filter 💿 Preview 🛃	Export Scan F	Result		2
Path Type					
G: NTFS)     G: StrFS)     G: Existing Partition (     G: Lost Partition 1 (N     Lost Partition 2 (N     Lost Partition 3 (N     Lost Partition 3 (N     More Lost Files (R     JPEG Graphics	File Name         Recovered_jpg_file(1).jpg         Recovered_jpg_file(2).jpg         Recovered_jpg_file(3).jpg         Recovered_jpg_file(4).jpg         Recovered_jpg_file(5).jpg         Recovered_jpg_file(6).jpg         Recovered_jpg_file(6).jpg	255.37 КВ 255.37 КВ 336.73 КВ 294.81 КВ	Creation Date	Modificati	V         V <td< td=""></td<>
Legend: X Deleted File ? I Total 17.91 GB in 114415 files.	.ost File <b>!</b> Raw File NTFS Cor Selected <b>2.11 MB</b> in <b>6</b> files.	npressed File	NTFS Encrypted File		Dimensions: 1370x1080 Creation Date: Unknown Modified Date: Unknown Back



Besides, to quickly find needed files, MiniTool Partition Wziard's Data Recovery offers the following options to users, which can help to find needed files very quickly.

## Туре

In type section, all the founded files will be displayed by file type. Just unfold a file type and choose certain items of this type to recover.

🚧 MiniTool Partition Wizard - Data Recovery 🗕 🗧					
🛃 Show Lost Files 🛛 🔍 Find	💎 Filter 💿 Preview 🎽	Export Scan R	esult		2
Path Type					
Path         Type           Image: All File Types (68881)         Image: Document (12)           Image: Archive (606)         Image: Archive (606)           Image: Complex Structure and Complex Structur	File Name       Archive (606)       Audio & Video (61)       Document (12)       Graphics & Picture (9523)       Other files (58679)	)	Creation Date	Modificati	Preview         Filename:         Size:         Dimensions:         Creation Date:         Modified Date:
Legend: × Deleted File ? Total 10.70 GB in 68881 files. 3	Lost File <b>!</b> Raw File NTFS Cor Selected <b>0 B</b> in <b>0</b> files.	mpressed File	NTFS Encrypted File		Back Save

### **Show Lost Files**

This option helps users find the lost files quickly. Just click **Show Lost Files** button to make the software only show you the lost files.

🚧 MiniTool Partition Wizard - Data	Recovery				_ 🗆 ×
Show Lost Files Q Find	🖓 Filter 💿 Preview 🛅 B	Export Scan Re	sult		<b>C</b>
Path Type	Lost Files ×				
	Lost Partition 2 (NTFS     Lost Partition 2 (NTFS     Lost Partition 3 (NTFS	5) 5) 5)	Creation Date	Modif	X Filename: Existing Partition (NTFS) Size: Dimensions: Creation Date: Unknown Modified Date: Unknown
Legend: × Deleted File ? Lo Total 17.91 GB in 114415 files. S		pressed File	NTFS Encrypted File		Back Save

### Find

This option allows users to input the specific file name so as to quickly find the needed file. Just click **Find** button, type the file name and click **Find** finally. For an exact search, users can check **Match Case** or **Match Word**.

- The **Match Case** option requires users to pay attention to the capital and small letter of file name.
- The **Match Word** option requires users to type the complete file name including file extension.
- If there is more than one file that matches the searching condition, after clicking **Find** button, users can click **Find Next** button to check whether it is the one you want.

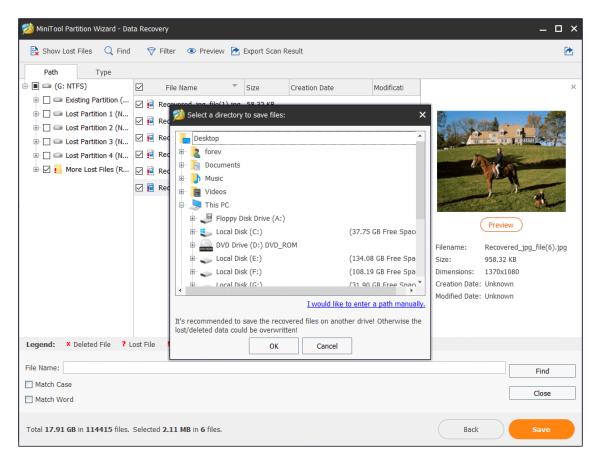
🚧 MiniTool Partition Wizard - Data Red	covery				_ 🗆 ×
	💎 Filter 💿 Preview 渣 Ex	port Scan Res	sult		2
Path Type Lo	st Files ×	Size	Creation Date	Modif	×
Legend:       X Deleted File       Lost File       Lost File	Existing Partition (NTFS     Existing Partition 1 (NTFS)     Exist Partition 2 (NTFS)     Exist Partition 3 (NTFS)     Exist Partition 4 (NTFS)     Exist Partition 4 (NTFS)     Exist Partition 4 (NTFS)     Exist Partition 4 (NTFS)			MOUII	Filename: Existing Partition (NTFS) Size: Dimensions: Creation Date: Unknown Modified Date: Unknown
File Name:					Find
Match Case Match Word					Find
Total <b>17.91 GB</b> in <b>114415</b> files. Selec	tted <b>2.11 MB</b> in <b>6</b> files.				Back Save

### Filter

This **Filter** option enables users to search files by filename/extension, file size, creation or modification date. Besides, users can also choose to show deleted, lost or normal files according to their needs. Just click **Filter** button, and make some advanced settings in the pop-up window.

🟂 MiniTool Partition Wizard - Data Recovery	_ 🗆 ×
😫 Show Lost Files 🔍 Find 🛛 🖓 Filter 💿 Preview 🖻 Export Scan Result	È
Path Type Lost Files X	
Image: Circle of Circle o	×
Control (NTFS) Control (NTFS) Control (NTFS) Advanced Filter Advanced Filter State: From 0.00 To 0.00 KB By Size: From 0.00 To 0.00 KB By Date: Creation Show Lost Files Show Lost Files Show Normal Files OK Cancel	Filename: Existing Partition (NTFS) Size: Dimensions: Creation Date: Unknown Modified Date: Unknown
Legend: X Deleted File ? Lost File ! Raw File NTFS Compressed File NTFS Encrypted File	
File Name: Match Case Match Word	Find Close
Total <b>17.91 GB</b> in <b>114415</b> files. Selected <b>0 B</b> in <b>0</b> files.	Back Save

Step 6. Finally, choose a directory to save selected files. It is recommended to save the recovered files on another drive. Otherwise, the lost/deleted data could be overwritten.



### Kindly reminder:

If users don't want to perform the recovery operation right now or have some problems when using this software, **Export Scan Result** option helps them to export the scan result to avoid a new scan. Click this feature, add a file name for the **.rss** file and export it to a location.

Path Type					
🔳 💷 (G: NTFS)	File Nam	e Size Creation Date	e Modificat	ion Date	
Existing Partition (NTFS)     E C I I I I I I I I I I I I I I I I	遒 Export Scan Result				×
Lost Partition 2 (NTFS)	← → ×  🔤 « Prog	gram Fi > MiniTool Partition Wizard 11 >	✓ Ö Search №	iniTool Partition Wiz	Q
🕀 🗌 💷 Lost Partition 3 (NTFS)	Organize 🔻 New folder			== -	0
🗈 🗌 📼 Lost Partition 4 (NTFS)	This PC	Name	Date modified	Туре	si ^
🗄 🗹 📙 More Lost Files (RAW)	3D Objects	diskspd	12/18/2018 7:42 PM	File folder	
	Desktop	en-us	12/18/2018 7:42 PM	File folder	
	Desktop     Documents	📙 imageformats	12/18/2018 7:42 PM	File folder	
	Downloads	PEDrivers	12/18/2018 7:42 PM	File folder	
	Music	PETools	12/18/2018 7:42 PM		
	Pictures	platforms	12/18/2018 7:42 PM		
	Videos	pxeBoot x64	12/18/2018 7:42 PM 12/18/2018 7:42 PM		
	Local Disk (C:)	x86	12/18/2018 7:42 PM		
	DVD Drive (D:) D	this-pc.rss	12/19/2018 2:13 PM		~
		<			>
	File name:				~
	Save as type: *.rss				~
Legend: × Deleted File ? Lost	F 🔨 Hide Folders		Sa	ve Cancel	
ile Name:	L				Find
Match Case					
Match Word					Close

Next time when users open Data Recovery, just use **Load Manually** feature on the main interface to upload the scan result directly so that they don't need to rescan the drive for recovery.

🚧 MiniTool Partition Wizard - Data Recovery					_ O ×
Select the device to recover: 😋					
Recovery Result					
(G: NTFS)	Load Manually				
Date: 2018-12-19 14:13	Load recovery result (*.RSS)				
Cogical Drive Market Control				×	
(C: NTF $\leftarrow \rightarrow \checkmark \uparrow \blacksquare$ > Thi	s PC > Desktop >	マ ひ Search De	esktop	Q	
37.77 Gl Organize 🔻 New folde					
This PC	Name	Date modified	Туре	Size	
S Lost Partition	my essays	12/10/2018 4:06 PM	File folder		
Desktop	pictures	12/18/2018 7:55 PM	File folder		
(NTFS)	recover G.rss	12/19/2018 2:31 PM	RSS File	28	
Downloads					
242.67 Music					
Pictures					
Videos Unallocated Sp Local Disk (C:)					
OUD DIA CONTRACTOR OF CONTO					
Unalloca 🔜 Local Disk (G:)					
242.44 ( _ Local Disk (G:) ~	<			>	
	me: recover G.rss	~ *.rss		~	
🔿 Hard Disk 🚽		Оре	in C	ancel	
VMware, VMware Virtual S SA	VMware, VMware Virtual S SA				
500.00 GB	256.00 GB				
					•
				Settings	Load Result
				octanga	Load Result

Apart from that, Data Recovery will keep the last time scanning result. Click the partition you scanned last time in the **Recovery Result** section and then choose **Load Result**, users will get the last time scanning result.

🟂 MiniTool Partition Wizard - Data Recovery			– 🗆 ×
Select the device to recover: 😋			
lecovery Result			
(G: NTFS) 32.00 GB Date: 2018-12-19 14:13	Load Manually Load recovery result (*.RSS)		
S Logical Drive			
(C: NTFS) 37.77 GB free of 59.46 GB	(G: NTFS) 13.46 GB free of 13.56 GB	System Reserved(NTFS) 147.86 MB free of 549.00 MB	
⊘ Lost Partition			
(NTFS) 242.67 GB free of 242.79 GB	(NTFS) 197.09 GB free of 197.21 GB		
S Unallocated Space			
Unallocated Space 242.44 GB free of 242.44 GB			
VMware, VMware Virtual S SA 500.00 GB	VMware, VMware Virtual S SA 256.00 GB		×
		Settings	.oad Result

# 35. Disk Benchmark

## 35.1 About Disk Benchmark

Benchmarking has been a popular way to test disk speed for years. It is the process of running software to measure the transfer speeds under various disk access scenarios like sequential and random, and showing the results in MBps that summarize the speed characteristics of a disk.

## What are sequential and random read/write?

Sequential read/write is a disk access pattern whereby large contiguous blocks of data are read from OR written to adjacent locations on the surface of a storage device. Conversely, random read/write is another disk access pattern whereby data are read from OR written to nonadjacent locations on the surface of a storage device.

There are multiple SSD benchmark tools available which can be easily obtained to run hard drive benchmark. And today, MiniTool Partition Wizard is the very choice as it allows users to quickly take the most common measurements on HDD/SSD with little configuration.

# 35.2 How to Perform SSD Benchmark Using MiniTool Partition Wizard

**Disk benchmark** feature of MiniTool Partition Wizard is designed to measure storage performance using variable transfer sizes and test lengths for both sequential and random read/write speeds. Several options are available for users to customize the hard drive performance test:

- Transfer sizes from 1KB to 2048KB
- Transfer lengths from 100MB to 4096MB
- Supports a variety of queue depths (queue number) from 1 to 512
- Supports a variety of thread numbers from 1 to 64
- Allows continuous sequential & random read/write testing
- Non-destructive performance measurement on formatted drives
- Shows results with clear and intuitive graphics

With this hard drive benchmark tool, users can test any manufacturer' RAID controllers, storage controllers, hard drives and SSD drives.

Tip: Tests are likely to take a long time to complete especially when the transfer size has a large span. MiniTool Partition Wizard will create a temporary file during the testing process which will get deleted when finished.

Step 1. Run MiniTool Partition Wizard to get the main interface. Then from the toolbar, select **Disk Benchmark**.

General <u>V</u> iew <u>D</u> isk <u>F</u>	artition Dyr	namic Disk <u>W</u> izard <u>H</u> elp					Mini	Тоо
Apply Undo Discard	Data Recover	ry Partition Recovery Disk Ben	-	vzer			Bootable Media	Manu
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/H	D Wizard	Disk 1 (WDC WD50	00AAKX-00ERMA0 S	ATA, MBR, 465	.76 GB)			
Copy Partition Wizard	đ	C:	75.13 GB	37.61 GB	37.52 GB	NTFS	Prima	ary
Copy Disk Wizard		D:DOWNLOAD	100.03 GB	88.71 GB	11.33 GB	NTFS	Logic	al
Partition Recovery W	izard	E:Work	85.00 GB	38.58 GB	46.42 GB	NTFS	Logic	al
Convert Disk	$\odot$	F:Files	203.93 GB	192.43 GB	11.49 GB	NTFS	Logic	al
Copy Disk		*:HELLO	1.66 GB	4.51 MB	1.65 GB	FAT32	Prima	ary
Convert MBR Disk to	GPT Disk	Samsung S	SD 840 EVO 250GB S	ATA, MBR, 232	2.88 GB)			
Clean Disk	$\odot$	H:MINITOOL	1.00 GB	578.64 MB	445.36 MB	FAT32	Prima	20/
🖉 Wipe Disk		I:	231.88 GB	60.07 MB	231.82 GB	NTFS	Prima	· ·
Delete All Partitions		1.	231.00 30	00.07 Mb	201.02 00	NITS		n y
Check Disk	$\odot$							
음 Align All Partitions		•						
C Rebuild MBR		Disk 1			)		le la	
Surface Test		MBR C:(NTFS) 465.76 GB 75 1 GB (	D:DOWNLOAD			NTFS) B (Used: 94%)		LLO(FA GB (Us
Partition Recovery		75.1 GB (	05ec / 100.0 GB (05e	1: 00 05.0 GB	(Used: •)[ 203.9 G	B (USEU: 94%)		GB (Us
Disk Properties		Disk 2						
Data Recovery			OL I:(NTFS) (U: 231.9 GB (Used:	0%)				
GPT/Primary 🔲 Logi	cal 🔲 Simpl	le 🔲 Spanned 🔲 Striped	Mirrored RA	JD5 🔲 Unall			6	9

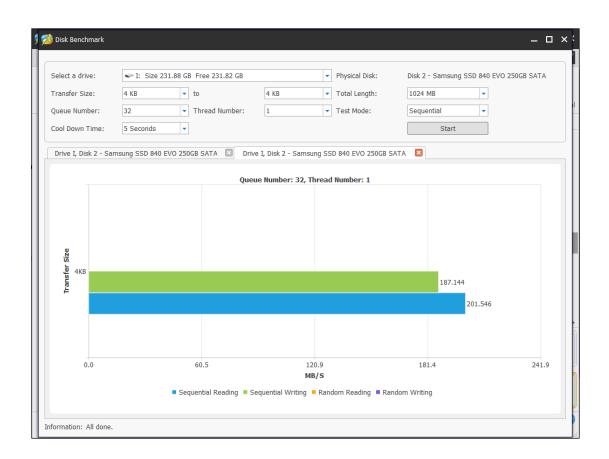
Step 2. Now in the **Disk Benchmark** window, configure the following parameters before hitting the **Start** button.

- Select a Drive: select a partition to start the benchmarking. While Disk Benchmark is able to measure the performance of both basic disks and dynamic disks, users need to know that a drive letter is essential (click <u>here</u> to view the best way to add drive letter).
- Physical Disk: show users the disk module of the selected drive.
- Transfer Size: the size of data transmitted at one time which ranges from 1KB to 2048KB.
- Total Length: the total amount of data to be transferred which ranges from 100MB to 4096MB.
- Queue Number: queue up a bunch of asynchronous read/writes in the drive, and the drive does them as quickly as it can.
- Tread Number: set up how many threads to be used to finish the disk speed test.
- Test Mode: choose a mode to test, which can be Sequential, Random, and Sequential & Random.
- Cool Down Time: set up the cool down time to reduce the hard drive temperature before it continues with the next test.

Tip: For 4KiB read/write test (the speed at reading/writing small files of 4 KB in size), choo	se
two 4KB in the Transfer Size interval.	

5 🥬	Disk Benchmark								_ 0	×
s	Select a drive:	😻 C: Size 75.13	GE	Free 38.04 GB		•	Physical Disk:	Disk 1 - WDC WD5000,	AAKX-00ERMA0 SATA	
Т	ransfer Size:	4 KB	•	to	32 KB	•	Total Length:	200 MB	•	
Q	Queue Number:	8	•	Thread Number:	1	•	Test Mode:	Sequential	•	
С	Cool Down Time:	5 Seconds	-					Start		
										۶I.
Info	ormation:									

Step 3. Wait patiently until Disk Benchmark finishes the hard drive speed test and shows users a complete graphical result.



## 35.3 What Kind of Performance Should Users Expect?

While it is easy to obtain the hard drive performance numbers, users may find it hard to learn more. For instance, what is the standard read/write speed for today's SSD? Does the drive tested hit the score? With those in mind, MiniTool goes one step further to help users understand their drive performance better.

# 35.3.1 Average Read/Write Speed for SATA Solid State Drive (SSD)

As users know, SSD enjoys fast read/write speed. But how fast indeed can it go? Usually, SSD connected with SATA interface brings 500MB/s around read speed. What's more, if the SSD is equipped with <u>PCIe</u>, the transferring speed is more outstanding.

Here MiniTool shows the performance of the most popular (SATA) SSDs on the market. These data are for reference only. Since test environment can vary, users may expect different benchmarking results even testing with the same storage device.

## Explanations for the following entries:

• Seq Q32T1: Sequential (Block Size=128KiB) Read/Write with 32 Queues & 1 Thread

- 4K Q8T8: Random 4KiB Read/Write with 8 Queues & Threads
- 4K Q32T1: Random 4KiB Read/Write with 32 Queues & 1 Thread
- 4K: Random 4KiB Read Write with single Queue & Thread
- Total Length: 1GB for all devices

Samsung 860 Evo	Read (MB/S)	Write (MB/S)
Seq Q32T1	563.501	495.867
4KB Q8T8	405.233	362.609
4KB Q32T1	390.353	362.32
4KB	47.7528	139.121
Toshiba TR200	Read (MB/S)	Write (MB/S)
Seq Q32T1	560.268	504.617
4KB Q8T8	275.237	229.539
4KB Q32T1	342.833	366.976
4KB	26.641	88.713

Crucial MX500	Read (MB/S)	Write (MB/S)
Seq Q32T1	555.658	507.542
4KB Q8T8	404.746	365.86
4KB Q32T1	176.128	163.233
4KB	25.917	62.285
WD Blue 3D NAND	Read (MB/S)	Write (MB/S)
Seq		
Q32T1	564.233	533.038
Q32T1 4KB Q8T8	564.233 393.42	533.038 347.369
4KB		
4KB Q8T8 4KB	393.42	347.369

Seq Q32T1	556.011	534.322
4KB Q8T8	399.526	349.126
4KB Q32T1	290.034	271.837
4KB	41.125	100.424
Kingston A400	Read (MB/S)	Write (MB/S)
Seq Q32T1	428.238	506.563
4KB Q8T8	337.743	352.52
4KB Q32T1	287.268	277.044
4KB	30.453	96.652
Gigabyte UD Pro	Read (MB/S)	Write (MB/S)
Seq Q32T1	564.651	525.247

4KB Q8T8	329.906	306.728
4KB Q32T1	287.66	265.448
4KB	35.022	116.946

Tip: For overall responsiveness and most gaming applications, 4K is more user-focused in disk performance test.

## 35.3.2 Possible Causes for Abnormal Testing Result

If the hard disk speed test shows much different results from the above data, here are 2 possible causes:

- The Solid State Disk (SSD) is connected via USB interface which definitely affect the SSD speed test. If this is true, users are likely to see a 50 MB/s around speed.
- The Hard Disk Drive (HDD) is badly fragmented. Fragmentation causes the hard drive to perform extra work that affects disk performance. <u>Defragmenting hard drive</u> should help improve performance.

# **36. Space Analyzer**

When a hard drive is running out of space, users may wonder which file is taking up too much space. Here is a simple way to find this out – using MiniTool Partition Wizard's Space Analyzer function.

## 36.1 About Space Analyzer

Space Analyzer is a utility newly embedded in MiniTool Partition Wizard. This hard drive

analyzer enables users to scan a hard drive and give users a better view of the hard drive space usage. Besides, this feature is useful for disk cleanup when <u>hard drive is full</u> and helps convert NTFS to FAT when receiving <u>file is too large for the destination file system</u> error.

After Space Analyzer analyzes the hard drive and directories and lets users understand which files and folders are occupying more space on the drive, users can manually explore files and delete unnecessary files and applications in Space Analyzer.

The hard drive space analyzer supports all kinds of hard drives like SSD, HDD, external hard drives and other removable devices like USB flash drive. Then how to use the disk space analyzer? This tutorial will show detailed steps with screenshots given.

## 36.2 How to Use Space Analyzer?

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. Select the Space Analyzer feature on the top toolbar to launch the disk usage analyzer.

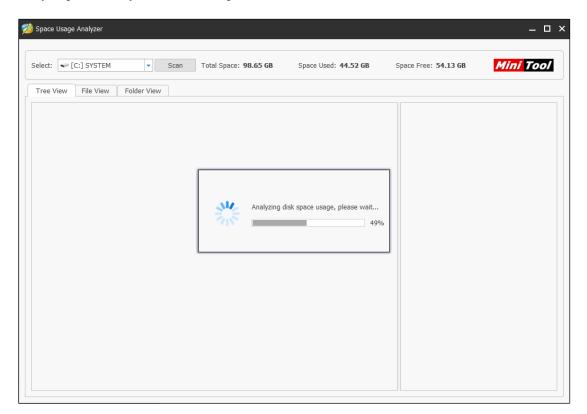
eneral <u>V</u> iew <u>D</u> isk <u>I</u>	Partition Dy	namic Disk <u>W</u> izard <u>H</u> elp					Mini To
pply Undo Discard	Data Recove	ry Partition Recovery Disk B	enchmark Space Analy	zer			Bootable Media Ma
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/H	ID Wizard	Disk 1 (WDC WD	5000AAKX-08U6AA0 SA	TA, GPT, 465.7	76 GB)		
Copy Partition Wizar	d	*:Recovery	300.00 MB	11.07 MB	288.93 MB	NTFS	GPT (Reco
Copy Disk Wizard		*:	100.00 MB	30.99 MB	69.01 MB	FAT32	GPT (EFI S
Partition Recovery W	/izard	*:	128.00 MB	128.00 MB	0 B	Other	GPT (Rese
hange Partition	$\odot$	C:SYSTEM	98.65 GB	44.45 GB	54.20 GB	NTFS	GPT (Data
🚔 Move/Resize Partitio	n	*:	853.00 MB	388.46 MB	464.54 MB	NTFS	GPT (Reco
Extend Partition		D:PROGRAMS	100.00 GB	29.38 GB	70.62 GB	NTFS	GPT (Data
3 Merge Partition		E:PERSONAL	86.19 GB	82.26 GB	3.93 GB	NTES	GPT (Data
C Split Partition		I:	2.29 GB	2.29 GB	0 B	Other	GPT (Data
Change Cluster Size		G:FILES	11.52 GB	450.62 MB	11.08 GB	FAT32	GPT (Data
Convert NTFS to FAT	r	F:VMWARE	165.76 GB	61.90 GB	103.86 GB	NTFS	GPT (Data
artition Management	$\odot$	T. WHIWHILE	100.70 00	01.50 05	105.00 05	in s	
Delete Partition							
Format Partition							
Copy Partition		•					
Align Partition		Disk 1					
Wipe Partition		GPT Recove 465.76 GB 300 MB			TFS) D:PROG 3 MB ( 100.0 G	E:PERS I:(Other) 86.2 G 2.3 GB	G:FILES(I F:VMWARE( 11.5 GB ( 165.8 GB (U
E]) Set Label		V 300 MB	C/ 100 MD C/ 128 MB	1 30.0 GD 85.	5 mb ( ) 100.0 G	100.2 G 1 2.3 GB	Д 11.3 GB (Д 103.6 GB (О

Step 3. Choose a partition to scan from the drop-down menu and click Scan.

elect:		C:] SYSTEM	-	Scan	Total Space: N/A	Space Used: N/A	Space Free: N/A	Mini Tool
Tree V	2	[D:] PROGRAMS [E:] PERSONAL	ew					
	1	[F:] VMWARE [G:] FILES <select folder=""></select>						
		-beleer Foldernin						

Step 4. Wait for the completion of the scanning. And users can see the scanning partition's **Total Space**, **Space Used** and **Space Free** on the top of the page.

Depending on the number of files in the hard drive that should be analyzed, the disk usage analysis process may take from a couple of minutes to hours for files of different size and number.



Step 5. After the scanning is completed, space analyzer provides you with three ways to view disk space usage.

### **Tree View:**

Tree View presents users a hierarchical view of files and folders in the hard drive that has been analyzed. Each folder can have a number of subfolders. On the Tree View tab, a folder can be expanded to several subfolders and collapsed to hide subitems.

Space Usage Analyzer						- 0
Space Usage Analyzei						
elect: 🕶 [C:] SYSTEM 🔹 S	Scan Total Space: 98.65	GB Space	Used: 43.40 GB	S	pace Free: 55.2	5 GB Mini Tool
Tree View File View Folder View						
lame	Percent of Parent	Size 👻	Items	*	Extension	File Type
⇒ C:\	100.00%	58.61 GB	333919		Scpl	Control panel item
🕀 📙 Windows	54.31%	31.83 GB	213022		🗋 .mum	MUM File
🕀 🗋 [11 Files]	13.23%	7.75 GB	11		🗋 .regtrans	REGTRANS-MS File
🕀 📙 Users	13.10%	7.68 GB	52075		🐏 .ldb	Microsoft Office Access Record
🕀 📙 Program Files	7.06%	4.14 GB	39213		🗋 .mfl	MFL File
🕀 📙 Program Files (x86)	4.61%	2.70 GB	11494		🗋 .jrs	JRS File
🕀 📙 ProgramData	2.39%	1.40 GB	15023		.8bi	8BI File
🕀 📙 Sysprep	1.70%	1021.77 MB	103		🗋 .log1	LOG1 File
🕀 📙 \$Recycle.Bin	1.48%	889.77 MB	2657		🗋 .tlg	TLG File
🕀 📙 MSOCache	1.21%	724.79 MB	113		dll_0d29d	DLL_0D29DCA9 File
🕀 📙 Boot	0.62%	369.60 MB	59		.txt	Text Document
🕀 📙 soft	0.25%	150.32 MB	4		🗋 .xlog	XLOG File
🕀 📙 Logs	0.03%	16.47 MB	89		🗋 .winmd	WINMD File
	0.01%	7.37 MB	6		🗋 .swf	Shockwave Flash Object
🖶 📙 found.000	0.00%	2.32 MB	5		] .sdb	SDB File
🕀 📙 System Volume Information	0.00%	349.22 KB	15		🗋 .sdi	SDI File
🕀 📙 Config.Msi	0.00%	132.63 KB	1		🗋 .apm	APM File
adobeTemp	0.00%	101.14 KB	2		🗊 .pdf	PDF File
RAW Files	0.00%	14.82 KB	2		data	DATA File

Users can expand these folders and right-click to **open**, **explore**, **copy path**, **delete to recycle bin**, **delete permanently or check its property.** Besides, copy a file or folder's path and paste it to This PC can find the folder out with its specific location and get a view of files in this folder.

Select: 🕶 [C:] SYSTEM 💌 Sca	n Total Space: 98.65 G	B Space	Used: <b>43.40 GB</b>	Space	Free: 55.2	5 GB Mini Tool
Tree View File View Folder View						
Name	Percent of Parent	Size 🔻	Items	Exte	nsion	File Type
🖨 📙 AppData	44.01%	3.37 GB	31995	. 2	.cpl	Control panel item
🕮 📙 Local	68.39%	2.31 GB	19897		.mum	MUM File
🕀 📙 Roaming	29.79%	1.01 GB	11356		.regtrans	REGTRANS-MS File
🕀 📙 LocalLow	1.81%	62.63 MB	739	🤬 .	.ldb	Microsoft Office Access Record
🕀 📙 Documents	34.31%	2.63 GB	14805		.mfl	MFL File
🕀 🎆 Downloads	10.010/	001 CE MB			.jrs	JRS File
🕀 🔄 Desktop	Open		512	<u> </u>	.8bi	8BI File
🕀 📙 9.12.03C	Explore Here		1710		.log1	LOG1 File
🕀 🔄 9.11.02C	Copy Path		2316		.tlg	TLG File
🕀 🗋 [13 Files]			13		.dll_0d29d	DLL_0D29DCA9 File
🕀 🔄 MicrosoftEdgeBackups	Delete (to Recy	cle Bin)	17		.txt	Text Document
🕀 📙 profiles	Delete (Permar	ently)	337		.xlog	XLOG File
🕀 🔚 new	Properties		8		.winmd	WINMD File
🕀 📙 Pictures	Toperties		10		.swf	Shockwave Flash Object
🕀 📙 IntelGraphicsProfiles	0.00%	24.71 KB	3		.sdb	SDB File
🕀 📕 Searches	0.00%	2.68 KB	6		.sdi	SDI File
🕀 🔚 .android	0.00%	2.33 KB	2	_	.apm	APM File
🕀 🔚 Links	0.00%	1.89 KB	3	paf .	.pdf	PDF File
🗈 🔚 Videos	0.00%	694 B	3		.data	DATA File
🕀 📙 Favorites	0.00%	690 B	4		.localstora	LOCALSTORAGE File

Here you might have noticed that the interface is divided into to two parts, drag the column leftwards, you can see more detailed information.

Select: 🥯 [C:] SYSTEM 💌 😒	Scan Total Spa	ce: 98.65 GB	Space Used: 45.38 GB	Space Free: 53.27 GB	Mini	Τοοί
Tree View File View Folder View						
Name	Percent of	Extension	File Type	Percent	Size 👻	Files
📼 C:\		🗟 .dll	Application extension	30.70%	17.16 GB	2
🕀 📙 Windows		🗟 .sys	System file	16.11%	9.00 GB	
🗊 🗋 [11 Files]		.exe	Application	7.31%	4.09 GB	
🕀 📙 Users		👸 .msi	Windows Installer Package	3.23%	1.81 GB	
🗊 📙 Program Files		🗋 .dmp	DMP File	2.24%	1.25 GB	
🕀 📙 Program Files (x86)		db. 🔊	Data Base File	2.02%	1.13 GB	
🕀 📙 ProgramData		.7z	WinRAR	1.79%	1023.02 MB	
🕀 📙 Sysprep		🛃 .msp	Windows Installer Patch	1.70%	970.44 MB	
🕀 🔚 \$Recycle.Bin		🗋 .dat	DAT File	1.55%	889.87 MB	
🖶 📙 MSOCache		🗋 .wim	WIM File	1.52%	867.62 MB	
🖶 📙 Boot		iso .iso	Disc Image File	1.46%	834.99 MB	
🕀 🔄 soft		📑 .cab	WinRAR	1.37%	782.65 MB	
🖶 🔚 \$WINDOWS.~BT		🔊 .ttf	TrueType font file	1.11%	634.55 MB	
🕀 📙 Logs		📄 .mp4	MP4 File	1.06%	607.07 MB	
🕀 📙 Recovery		🗋 .mui	MUI File	0.91%	522.85 MB	2
🕀 📙 found.000		🔊 .ttc	TrueType collection font file	0.84%	479.59 MB	
🗑 📙 System Volume Information		📼 .jpg	JPG File	0.82%	466.57 MB	
🕀 📙 Config.Msi		🗋 .bin	BIN File	0.80%	456.02 MB	
🕀 📕 adobeTemp		📼 .png	PNG File	0.80%	455.01 MB	3
RAW Files		🖭 .xml	XML Document	0.76%	434.38 MB	

At this part, files are in a descending order according to their filename extension. And you can check which kind of files take too much space from the **Size** column. Double click them, you will

get into the interface of this kind of files. You can delete unnecessary one to free up some space.

Select: C:] SYSTEM Scan Total Space: 98.65 GB	Space Used: 45.38 GB	Space Free: 5	3.27 GB Mini	Tool
Tree View File View Folder View				
File Search Filter: *.exe Apply Clear	• Match file name only	O Match entire path		
Name	Percent of Drive	Size	Last Change	Attribu <sup>4</sup>
E C:\Program Files (x86)\vmware\VMware-workstation-full-12.0.0-2985596.exe	0.51%	292.11 MB	2015-09-15 09:06:33	A
C:\soft\p3_k31579006_bn8hOTYIoFGEtFEx1o_v12.1.exe	0.26%	150.00 MB	2013-12-17 03:24:53	AN
C:\Windows\System32\MRT.exe	0.23%	130.90 MB	2018-12-12 02:28:40	AC
C:\Windows\System32\MRT-KB890830.exe	0.22%	127.14 MB	2018-06-13 03:26:51	AC
C:\Sysprep\GoRuntimeFiles\GoRuntime_DotNetFramework_4.0_4.5.exe	0.21%	117.90 MB	2013-10-11 02:36:41	А
C:\Users\qing\Downloads\pw103-free (7).exe	0.14%	81.22 MB	2018-09-17 07:32:53	А
C:\Users\qing\Downloads\pw103-free.exe	0.14%	81.22 MB	2018-09-17 07:16:28	A
E C:\\$Recycle.Bin\S-1-5-21-970760613-1795818291-1852268456-1001\\$ROIWLN	0.14%	79.67 MB	2018-12-04 02:10:42	А
C:\Users\qing\Downloads\pw103-free (1).exe	0.14%	78.31 MB	2018-12-12 10:29:06	Α
E C:\Users\qing\Documents\Tencent Files\1210480215\FileRecv\pw1023.exe	0.14%	77.50 MB	2018-07-09 08:24:50	A
C:\Users\qing\Downloads\pw1023.exe	0.14%	77.50 MB	2018-08-21 03:42:46	Α
C:\Users\qing\Downloads\pw102-free.exe	0.14%	77.33 MB	2018-09-03 06:28:30	А
C:\Users\qing\Downloads\mtsbsetup_free.exe	0.13%	76.88 MB	2018-07-26 04:41:26	А
C:\Users\qing\Downloads\mtsbsetup_trial.exe	0.13%	75.22 MB	2018-07-26 05:54:41	А
C:\Users\qing\Documents\Tencent Files\1210480215\FileRecv\pw102-free (1).ex	e 0.13%	72.18 MB	2018-07-06 05:59:12	А
C:\Users\qing\Downloads\QQ9.0.8.exe	0.13%	72.06 MB	2018-12-04 08:32:54	Α
C:\Users\qing\Documents\Tencent Files\2277148409\FileRecv\pw102-free-2017	0.12%	71.22 MB	2017-07-25 05:03:25	А
C:\\$Recycle.Bin\S-1-5-21-970760613-1795818291-1852268456-1001\\$R4W5I38	0.10%	54.87 MB	2018-11-19 05:10:45	Α

Note: Here you can see that some files have different color and some may be grey out. That's because they have different file attributes.

File attributes are pieces of information relevant to every file and directory that includes additional data about the file itself or its contents. Attributes can be in files, directories, volumes and certain system objects. They are used by the operating system and software applications to define file system behavior.

Under the Attributes column, you can see there are some upper case letters, which represents the file's attribute. Here are some commonly seen file attributes. You can have a look.

- A: Archive
- C: Compressed
- D: Directory
- E: Encrypted
- H: Hidden
- I: Not Content Indexed
- L: Reparse Point
- N: Normal
- O: Offline
- P: Sparse (Pinned)
- R: Read-Only
- S: System
- T: Temporary

#### File View:

File View will display all the files in a descending order according to file size. On the File View tab, users can use **File Search Filter** to check a specific file's size. With **Match file name only** option checked, users can input file name to find the file they want. And **Match entire path** option requires users to input the entire path correctly.

Select: C:] SYSTEM Scan Total Space: 98.65 GB	Space Used: 43.40 GB	Space Free: 5	5.25 GB Mini	ΤοοΙ
Tree View File View Folder View				
File Search Filter: Apply Clear	O Match file name only ○	Match entire path		
Name	Percent of Drive	Size	Last Change	Attribu 4
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.31%	4.87 GB	2018-12-12 01:32:34	A
C:\pagefile.sys	6.61%	3.88 GB	2018-12-12 04:10:06	AHS
C:\hiberfil.sys	5.39%	3.16 GB	2018-12-12 04:10:05	AHS
C:\Windows\LiveKernelReports\win32k.sys-20181206-1938.dmp	1.46%	876.64 MB	2018-12-06 11:38:39	A
C:\Windows\Installer\439e3a58.msi	1.08%	645.50 MB	2016-04-30 11:23:48	AC
C:\pdr8-debug.dmp	0.80%	478.80 MB	2018-04-26 03:13:17	A
C:\Users\qing\Desktop\mtboot092101.iso	0.73%	439.64 MB	2018-09-21 08:50:47	A
C:\Users\qing\Documents\WeChat Files\jenneqing\Msg\Emotion.db	0.72%	431.79 MB	2018-06-22 05:39:12	A
C:\Windows\Installer\8e3464ff.msp	0.68%	408.94 MB	2011-09-15 10:34:54	AC
C:\\$Recycle.Bin\S-1-5-21-970760613-1795818291-1852268456-1001\\$RRDGNM	0.66%	395.35 MB	2018-07-25 08:13:43	A
C:\Windows\System32\Recovery\winre.wim	0.62%	372.75 MB	2018-07-26 02:53:25	A
C:\Boot\winpe_10_64\winre.wim	0.61%	363.52 MB	2018-02-07 02:41:02	N
C:\Users\qing\Documents\Tencent Files\2277148409\FileRecv\04LBO Model - A	0.49%	295.08 MB	2018-05-14 08:27:31	A
C:\Program Files (x86)\vmware\VMware-workstation-full-12.0.0-2985596.exe	0.49%	292.11 MB	2015-09-15 09:06:33	A
💕 C:\Program Files (x86)\Common Files\VMware\InstallerCache\{132E3257-14F1	0.47%	281.72 MB	2018-07-03 02:39:04	A
C:\Windows\Installer\37e3cd4d.msi	0.47%	281.72 MB	2018-07-03 02:39:04	AC
C:\Windows\WinSxS\ManifestCache\2b74e1161162b82d_blobs.bin	0.43%	260.37 MB	2018-12-12 04:29:09	A
C:\swapfile.sys	0.43%	256.00 MB	2018-12-12 04:10:06	AHS

### Folder View:

Folder View will list all files in folders. On the Folder View tab, users can check **Show all directories**, which will list all folde rs and show which directory is taking too much space.

elect: C: SYSTEM Scan Total Space: 98.65 GB	Space Used: 44.52 GB	Space Free: 5	54.13 GB Mini	Τοοί
Tree View File View Folder View				
Show all directories     Show last level directories				
lame	Percent of Drive	Size	Last Change	Attribu
C:\Windows	53.70%	32.04 GB	2018-11-08 01:44:10	D
C:\Windows\WinSxS	19.62%	11.71 GB	2018-12-12 02:26:58	D
C:\Users	13.49%	8.05 GB	2018-07-25 11:18:47	DR
C:\Users\qing	13.48%	8.04 GB	2018-10-23 10:55:15	D
C:\Windows\ServiceProfiles	8.53%	5.09 GB	2018-07-26 03:11:18	D
C:\Windows\ServiceProfiles\NetworkService	8.44%	5.04 GB	2018-10-23 10:55:47	D
C:\Windows\ServiceProfiles\NetworkService\AppData	8.44%	5.04 GB	2018-07-26 03:11:18	DH
C:\Windows\ServiceProfiles\NetworkService\AppData\Local	8.44%	5.04 GB	2018-07-25 11:14:29	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft	8.44%	5.04 GB	2018-07-25 11:36:40	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows	8.44%	5.04 GB	2018-07-25 11:27:43	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.44%	5.03 GB	2018-07-25 11:55:24	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.41%	5.02 GB	2018-12-12 01:33:30	D
C:\Windows\System32	8.32%	4.96 GB	2018-12-12 01:14:36	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.17%	4.87 GB	2018-12-12 01:32:34	D
C:\Program Files	6.93%	4.14 GB	2018-12-06 07:45:07	DR
C:\Users\qing\AppData	5.63%	3.36 GB	2018-07-25 11:20:08	DH
C:\Program Files (x86)	4.53%	2.70 GB	2018-12-10 09:16:59	DR
C:\Users\ging\Documents	4.41%	2.63 GB	2018-12-03 04:35:23	DR

And Show last level directories will only navigate folders to the last level and presents more

detailed information for each folder.

Select: 🗢 [C:] SYSTEM 🔻 Scan Total Space: 98.65 GB	Space Used: 44.52 GB	Space Free: !	54.13 GB Mini	Τοοί
Tree View File View Folder View				
Show all directories     Show last level directories				
lame	Percent of Drive	Size	Last Change	Attribu
C:\Windows	53.70%	32.04 GB	2018-11-08 01:44:10	D
C:\Windows\WinSxS	19.62%	11.71 GB	2018-12-12 02:26:58	D
C:\Users	13.49%	8.05 GB	2018-07-25 11:18:47	DR
C:\Users\qing	13.48%	8.04 GB	2018-10-23 10:55:15	D
C:\Windows\ServiceProfiles	8.53%	5.09 GB	2018-07-26 03:11:18	D
C:\Windows\ServiceProfiles\NetworkService	8.44%	5.04 GB	2018-10-23 10:55:47	D
C:\Windows\ServiceProfiles\NetworkService\AppData	8.44%	5.04 GB	2018-07-26 03:11:18	DH
C:\Windows\ServiceProfiles\NetworkService\AppData\Local	8.44%	5.04 GB	2018-07-25 11:14:29	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft	8.44%	5.04 GB	2018-07-25 11:36:40	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows	8.44%	5.04 GB	2018-07-25 11:27:43	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.44%	5.03 GB	2018-07-25 11:55:24	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.41%	5.02 GB	2018-12-12 01:33:30	D
C:\Windows\System32	8.32%	4.96 GB	2018-12-12 01:14:36	D
C:\Windows\ServiceProfiles\NetworkService\AppData\Local\Microsoft\Windows\	8.17%	4.87 GB	2018-12-12 01:32:34	D
C:\Program Files	6.93%	4.14 GB	2018-12-06 07:45:07	DR
C:\Users\qing\AppData	5.63%	3.36 GB	2018-07-25 11:20:08	DH
C:\Program Files (x86)	4.53%	2.70 GB	2018-12-10 09:16:59	DR

# 37. Migrate OS to SSD/HD

## 37.1 About Migrate OS to SSD/HD

In today's era, computer hard drive is not only the medium to store and exchange data, it also provides an entertaining way. Users can download good music tracks and movies to the hard drive so as to listen to or watch them whenever they want.

As the size of files stored on the hard drive is increasing, the running speed and responding speed of computer will be greatly affected. Meanwhile, the appearance of <u>SSD</u> offers users a wonderful experience in speed. So to replace the old hard drive with a new SSD or migrate OS to new SSD becomes the first choice to improve computer performance and speed.

In addition, some large-scale online games are required to download to hard drive. This can easily make the old hard drive run out of space in a short time. The most direct and effective way to deal with this situation is also to replace the old hard drive with a new larger SSD or HD.

In both cases, if users don't want to reinstall Windows and programs or don't want to lose anything, we highly suggest using **Migrate OS to SSD/HD** feature of MiniTool Partition Wizard to do this, which is an easy and safe process.

Below is a detailed MiniTool Partition Wizard tutorial on OS migration.

Note: The migration process of Partition Wizard will destroy all data in users' target disk, so users would better transfer data to another device or make a backup in advance. Yet, it doesn't have any effect on the data in the original disk.

## 37.2 How to Migrate OS to SSD/HD

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. Click on Migrate OS to SSD/HD in the toolbar.

neral View Disk Pa	artition Dynam	nic Disk Wizard Help					Mini	Τοο
∕ ∽ X		<b>.</b>						
oply Undo Discard	Data Recovery	Partition Recovery Disk Ber	nchmark Space Ana	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/HD	Wizard	Sisk 1 (VMware, VMv	ware Virtual S SAS,	MBR, 500.00 0	B)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prim	ary
Copy Disk Wizard		C:	59.46 GB	20.29 GB	39.17 GB	NTFS	Prim	ary
Convert Disk	$\bigcirc$	*:	108.43 GB	107.34 MB	108.33 GB	NTFS	Prim	ary
Copy Disk		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
고 Convert MBR Disk to G	PT Disk	F:	197.21 GB	119.14 MB	197.09 GB	NTFS	🗖 Logi	cal
Clean Disk	$\bigcirc$	🛶 Disk 2 (VMware, VM	ware Virtual S SAS,	MBR, 256.00 0	SB)			
		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Prim	ary
Delete All Partitions		Н:	74.64 GB	97.31 MB	74.54 GB	NTFS	Prim	ary
heck Disk	$\bigcirc$	I:	68.53 GB	97.12 MB	68.44 GB	NTFS	Prim	, arv
Align All Partitions								,
💿 Rebuild MBR								
	-				·			
Partition Recovery		Disk 1 MBR System Res	C:(NTFS) (NT	FS)	E:(NTFS)	F:(NTF	.c)	
Disk Properties		- Of Ocon red	6 59.5 GB (Us) 108				GB (Used: 0%)	
🗟 Data Recovery	ſ	Disk 2						
) Operations Pending		MBR 256.00 GB 112.8 GB (U	Jsed: 0%)		H:(NTFS) 74.6 GB (Used	l: 0%)	I:(NTFS) 68.5 GB (Used: 0%	5)

Step 3. Choose a right method to migrate system disk and click Next.

**Option A. To Replace the System Disk** 

🚧 Migrate OS to SSD/HD Wizard	×
How to migrate your OS? This page helps you to choose a right method to migrate your system disk.	
• A. I would like to replace my system disk with another hard disk.	
- MiniTool Partition Wizard will copy all the partitions on the system disk to another hard disk.	
○ B. I would like to move my operating system to another hard disk. And keep the original	hard disk in my computer.
- MiniTool Partition Wizard will copy the system required partitions only.	
<u>Migrate OS to SSD/HD Tutorial</u> < Back	Next > Cancel

Firstly, please select the target disk to migrate system disk to and click Next.

🯄 Mig	grate OS to SS	SD/HD Wizard				×
	<b>ct Destinatio</b> hoose a hard o	<b>n Disk</b> disk to migrate	OS to.			
The ( dele		rated to the spe	ecified destination disk. And during	migration, the content of the	destination disk will be	
1	Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (Use	d: 0%)	H:(NTFS) 74.6 GB (Used: 0%)	I:(NTFS) 68.5 GB (Used: 0%)	
Disk			Capacity	Model		
Disk	1		500.00 GB	VMware, VMware Virtual S SA	S	
Disk	2		256.00 GB	VMware, VMware Virtual S SA	S	
? 🛚	ligrate OS to s	SSD/HD Tutoria	1	< Bac	k Next > Cance	

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Then, choose a copy option. Alternatively, users can manually edit partition size by inputting exact partition size in MB, GB, or TB.

🟄 Migrate OS to SSD/HD Wizard							×
Review the changes On this page you can review the cl	nanges you have been made.						
Copy Options:							
I. Fit partitions to entire disk.							
O 2. Copy partitions without resized	e.						
Align partitions to 1 MB. (It cou	Ild improve performance for	Advanced Form	at dis	k & S	SD.)		
Use GUID Partition Table for the	e target disk. (It can support	disk larger than	2 TB.	)			
- Target Disk Layout:							
Disk 2 MBR 256.00 GB System Resi 575 MB (Use	(NTFS) (4 GB (Usi) 55.5 GB (Used: 04	(NTFS) 68.8 GB (Use	ed: 0%	6)	(NTFS) 100.7 GB	(Used: 0%)	
Change Selected Partition:							
<b>S74.00 MB (Used:374.00 MB)</b>							>
	Unallocated Space Before:	0.00	‡ м	в 🖵			
	Partition Size:	574.62	\$ м	в 🖵			
	Unallocated Space After:	0.00	\$ м	в			
Migrate OS to SSD/HD Tutorial					< <u>B</u> ack	<u>N</u> ext >	Cancel

## Tricks:

- Align partitions to 1MB could help improve performance for SSD and advanced format disks, so please keep it checked if users are using such devices.
- Checking Use GUID Partition Table for the target disk makes it possible to use all space of hard disk larger than 2TB, but UEFI boot should be enabled in BIOS.
- MiniTool Partition Wizard Free Edition doesn't support migrating OS on <u>MBR</u> disk using GUID Partition table for the target disk.
- If users want to migrate Windows which is installed on a GPT disk, they will not see the option Use GUID Partition Table for the target disk.

Next, read a popup note and click **Finish** to continue.

🯄 Migrate OS to SSD/HD Wizard	×
Boot from the Destination disk How to boot from the Destination disk?	
Please NOTE: To boot from the new disk, please configure computer BIOS setting. Make sure the new disk is configu	ured as the default boot disk.
Migrate OS to SSD/HD Tutorial         < Back	k <u>E</u> inish Cancel

At last, click **Apply** button to execute pending operations and tap **Yes** in pop-up prompt window to allow changes.

neral View Disk Pa	artition Dy	ynamic Disk Wizard Help					Mini	Тоо
/ 4 X							<u></u>	
oply Undo Discard	Data Reco	overy Partition Recovery Disk Ben	chmark Space Ana	alyzer			Bootable Media	Manu
Wizard	$\bigcirc$	Partition	Capacity	Used	Unused	File System	Туре	
Higrate OS to SSD/HD	Wizard	<b>Disk 1</b> (VMware, VMw	vare Virtual S SAS,	MBR, 500.00 G	SB)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prim	ary
Copy Disk Wizard		C:	59.46 GB	20.29 GB	39.17 GB	NTFS	Prim	ary
Convert Disk	$\overline{\mathbf{O}}$	*:	108.43 GB	107.34 MB	108.33 GB	NTFS	Prim	ary
Copy Disk		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
고 Convert MBR Disk to G	PT Disk	F:	197.21 GB	119.14 MB	197.09 GB	NTFS	🗖 Logi	cal
Clean Disk	$\odot$	🍑 Disk 2 (VMware, VMw	vare Virtual S SAS,	MBR, 256.00 G	SB)			
		G:System Reserved	574.62 MB	374.37 MB	200.25 MB	NTFS	Prim	ary
Delete All Partitions		H:	30.44 GB	20.29 GB	10.16 GB	NTFS	Prim	ary
Check Disk	$\bigcirc$	I:	55.52 GB	107.34 MB	55.41 GB	NTES	Prim	arv
Align All Partitions		]:	68.79 GB	108.23 MB	68.68 GB	NTFS	Logi	
🗟 Rebuild MBR			00179 00	100120 110	00100 00		<b>L</b> 209	
			1 1		1			
Partition Recovery		Disk 1 MBR System Rest 500.00 GB 549 MB (Use		FS)	E:(NTFS)	F:(NTF		
Disk Properties		549 MB (Use	59.5 GB (Usi 108	.4 GB (Used: 0	r 134.4 GB (Use	a: 0%) 197.2	GB (Used: 0%)	
Data Recovery		Disk 2						
• 1. Migrate OS to Disk 2		MBR 256.00 GB G:System Re 575 MB (Use	H:(NTFS) I:(1 30.4 GB (Us) 55.	ITFS) 5 GB (Used: 0%	J:(NTFS) 68.8 GB (Used	: 0%) K:(NT	FS) GB (Used: 0%)	

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#### **Option B. To Migrate Windows Only**

Digrate OS to SSD/HD Wizard
How to migrate your OS? This page helps you to choose a right method to migrate your system disk.
• A. I would like to replace my system disk with another hard disk.
- MiniTool Partition Wizard will copy all the partitions on the system disk to another hard disk.
• B. I would like to move my operating system to another hard disk. And keep the original hard disk in my computer.
- MiniTool Partition Wizard will copy the system required partitions only.
Migrate OS to SSD/HD Tutorial         < Back

Here, users also need to select the target disk to transfer Windows 10 to and click Next.

🯄 Mig	grate OS to SS	SD/HD Wizard		×					
	Select Destination Disk Choose a hard disk to migrate OS to.								
The C delet		rated to the specified destination disk	And during migration, the content of the destination	on disk will be					
1	Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (Used: 0%)	H:(NTFS) 74.6 GB (Used: 0%) 68.5 GB (	Used: 0%)					
Disk		Capacity	Model						
Disk	1	500.00 GB	VMware, VMware Virtual S SAS						
Disk	2	256.00 GB	VMware, VMware Virtual S SAS						
? ⋈	ligrate OS to S	SSD/HD Tutorial	< Back Ne	xt > Cancel					

Then, select a copy option and click Next.

🧩 Migrate OS to SSD/HD Wizard	×
Review the changes On this page you can review the changes you have been made.	
Copy Options: <ul> <li></li></ul>	
Target Disk Layout: Disk 2 MBR 256.00 GB 253.7 GB (Used: 7%) Change Selected Partition: Change Selected Partition: 2.29 GB (Used:374.00 MB)	
Unallocated Space Before: 0.00  GB  GB  Partition Size: 2.29  GB  Unallocated Space After: 0.00  GB  GB  GB  GB  GB  GB  GB  GB  GB  GB	cel

Next, read the boot note and click **Finish**.

Digrate OS to SSD/HD Wizard	×
Boot from the Destination disk How to boot from the Destination disk?	
Please NOTE:	
To boot from the new disk, please configure computer BIOS setting. Make sure the new disk is configured as the default boot disk.	
Migrate OS to SSD/HD Tutorial         < Back	

At last, click **Apply** button in the toolbar to execute pending operations and tap **Yes** in the pop-up prompt window to allow changes.

eneral	View Disk	Partition Dy	ynamic Disk Wizard H	elp						i Too
~	Υ Υ		· · · · · · · · · · · · · · · · · · ·						©	
pply	Undo Discard	Data Reco	overy Partition Recovery	Disk Benchmark	Space Ana	alyzer			Bootable Media	Manu
Wizar	ď		Partition	Cap	acity	Used	Unused	File System	Туре	
Cá N	ligrate OS to SSD/I	HD Wizard	Sisk 1 (VMwa	are, VMware Vir	tual S SAS,	MBR, 500.00 G	B)			
@ c	Copy Partition Wizar	rd	*:System Reserv	ed 5	649.00 MB	374.37 MB	174.63 MB	NTFS	🗖 Pr	imary
Ē	Copy Disk Wizard		C:		59.46 GB	20.29 GB	39.17 GB	NTFS	Pr	imary
Conve	ert Disk	$\bigcirc$	*:	1	108.43 GB	107.34 MB	108.33 GB	NTFS	Pr	imary
Ē	Copy Disk		E:	1	134.35 GB	108.23 MB	134.25 GB	NTFS	Lo	gical
20	Convert MBR Disk to	GPT Disk	F:	1	197.21 GB	119.14 MB	197.09 GB	NTFS	🗖 Lo	gical
Clean	Disk	$\bigcirc$	Disk 2 (VMwa	are, VMware Vir	rtual S SAS,	MBR, 256.00 G	B)			
ØV	Vipe Disk		G:System Reserv	ed	2.29 GB	374.37 MB	1.92 GB	NTFS	Pr	imary
۵ ش	elete All Partitions		н:		253.71 GB	20.29 GB	233.42 GB	NTES	Pr	
Check	Disk	$\bigcirc$				20120 00	200112 00			initian y
e A	lign All Partitions									
6 R	tebuild MBR									
	Surface Test		-							
🔒 P	artition Recovery		Disk 1	tem Res C:(N		TFS)	E:(NTFS)	F:(NTF	EC)	
💷 D	isk Properties						134.4 GB (Use		GB (Used: 0%)	
	ata Recovery		Disk 2							
	erations Pending Migrate OS to Disk		MBR G:S	GB (Use) 253.7		7%)				

# 38. Partition Recovery

## 38.1 About Partition Recovery

<u>Hard disk partitions</u> may get lost or disappear due to one of these factors: mistaken deletion, virus attack, wrong ghost, sudden power outage, incorrect partitioning, and so on. In these cases, Partition Recovery is quite a good solution to dealing with partition loss, recovering lost partitions and data altogether.

MiniTool Partition Wizard is a partition recovery software that can recover lost/deleted partitions as long as new partition hasn't been created. The tutorial below shows detailed steps on how to recover lost/deleted partitions easily.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

### 38.2 How to Recover Lost Partition

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. Right-click the disk where partition loss appears and directly choose **Partition Recovery** from the pop-up window.

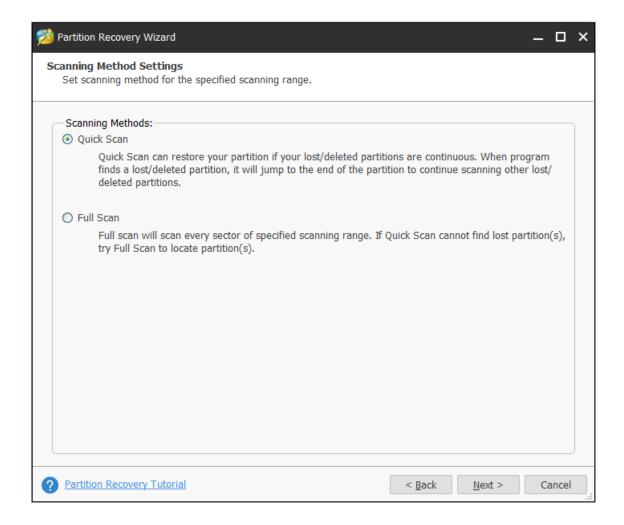
🏄 MiniT General	ool Partiti	on Wizard Disk Pa		namic Disk Wi	izard Help					Min	-
Apply	← Undo	X		iuur	ecovery Disk Ben	-	nalvzer			Bootable Media	Manua
Wizaro			۰	Partition		Capacity	Used	Unused	File System	Туре	
Cá Mi	igrate OS	to SSD/HD	) Wizard	🥌 Disk	<b>(</b> 1 (VMware, VMv	vare Virtual S SAS	5, MBR, 500.00 G	GB)			
ି <mark>ଓ</mark> ପ	opy Partiti	on Wizard		*:Syste	m Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	🗖 Prir	nary
E Co	opy Disk V	Vizard		C:		50 46 CR	21.91 GB	37.55 GB	NTFS	Prir	nary
Conve	rt Disk		$\overline{\mathbf{O}}$	F:	을 Align All Par	titions	)7.34 MB	108.33 GB	NTFS	Prir	nary
E Co	opy Disk			E:	CREbuild MBR		)8.23 MB	134.25 GB	NTFS	Log	ical
<u>೧</u> Co	onvert MBI	R Disk to G	PT Disk	*:	前 Delete All Pa	rtitions	0 8	197.21 GB	Unallocate	-	
Clean	Disk		$\odot$	🥌 Disl	🗊 Сору		, 256.00 0	SB)		-	
Ø ₩	'ipe Disk			G:	Surface Tes	t	)7.50 MB	112.72 GB	NTFS	Prir	220/
De	elete All P	artitions		н:	🔒 Data Recove	ry	7.31 MB	74.54 GB	NTES	Prir	'
Check	Disk		$\bigcirc$	I:	🔒 Partition Red	overy		68.44 GB			
음 Al	ign All Par	rtitions		1:	∠ Wipe Disk	· ·	97.12 MB	08.44 GB	NTFS	Prir	nary
6 Re	ebuild MBF	र				Disk to GPT Disk					
🖂 Su	urface Tes	st		4		DISK TO GPT DISK					
🔒 Pa	artition Re	covery		Disk 1				E:(NTFS)	(Line)	ocated)	
💷 Di	sk Proper	ties		500.00	GB System Res	59.5 GB (Us 1	:(NTFŠ) 08.4 GB (Used: 0				
🖂 Da	ata Recove	ery		Di La				1			
0 Oper	rations P	ending		Disk 2 MBR 256.00	G:(NTFS)	sed: 0%)		H:(NTFS) 74.6 GB (Us	ed: 0%)	I:(NTFS) 68.5 GB (Used: 0	%)
GPT/	/Primary	🗖 Logica	al 🔲 Simpl	e 🔲 Spanned	Striped	Mirrored 🔲 R	AID5 🔲 Unallo	ocated		G	9 9 8

Note: If it is a GPT disk that encounters partition loss, and it turns to an MBR disk after partition loss, please convert MBR disk to GPT first, and then employ the Partition Recovery feature.

Step 3. Choose a scanning range from Full Disk, Unallocated Space, and Specified Range, and then click on Next button.

🯄 Partition Recovery Wizard 🛛 🗕 🗖	×
Scanning Range Settings Set scanning range for the specified disk.	
Scanning Range:         Image:         <	
could also enter the starting LBA and Ending LBA directly.	
Partition Recovery Tutorial     < Back	

Step 4. Set a scanning method to scan the specified range and click Next.



Step 5. Check all needed partitions, including existing partitions and deleted/lost partitions, and then click **Finish** button.

		ry Wizard					_ 🗆
		d Partitions					
Cho	oose all need	ded partitions (both	1 existing and l	lost)			
		partitions you need					
Doub	le click the s	earched partition t	o explore the o	content.)			
ſ	File Syst	Label	Starting LI	Ending LB	Used Siz	Size	Status
~	NTFS	System Reser	2048	1126399	374.37 MB	549.00 MB	Existing
$\checkmark$	NTFS		1126400	125827071	21.91 GB	59.46 GB	Existing
$\checkmark$	NTFS		125827072	353232895	107.34 MB	108.44 GB	Existing
$\checkmark$	NTFS		353232960	634994687	108.23 MB	134.35 GB	Existing
2	NTFS		634996736	1048575991	119.14 MB	197.21 GB	Lost/Deleted
revie	w:						
revie	w: Disk 1						
revie		System Res( C:	(NTFS) F:(	(NTFS) E:	(NTFS)	(NTFS)	

Please make sure all needed partitions have been checked. Otherwise, users will receive the following warning message and some useful partitions will be deleted.

🯄 Warni	ng	×
•	At least one of the existing partition will be deleted. Are you sure that you want to continue?	
	Yes No	

Step 6. Assign a letter for the recovered partition(s) using <u>Change Drive Letter</u> feature if users want to see it in Windows Explorer.

neral View Disk Parti	tion Dyn	namic Disk Wizard Help					Mini	Тоо
✓ ← × pply Undo Discard [	Data Recov	very Partition Recovery Disk Bend	chmark Space Ana	alvzer			Bootable Media	Manu
		Partition	Capacity	Used	Unused	File System	Туре	
Change Partition	$\odot$	Disk 1 (VMware, VMw			GB)		. / F =	
Extend Partition		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ary
5 Merge Partition		C:	59.46 GB	21.91 GB	37.55 GB	NTFS	Prim	ary
]C Split Partition		F:	108.43 GB	107.34 MB	108.33 GB	NTFS	Prim	ary
Change Cluster Size		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	Logic	al
🖇 Convert NTFS to FAT		*:	197.21 GB	119.14 MB	197.09 GB	NTFS	🗖 Logic	al
Partition Management	$\diamond$	w Disk 2 (VMware, VMw	are Virtual S SAS.	MBR. 256.00 0	(B)			
Delete Partition				-				
Format Partition		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Prima	ary
Copy Partition		H:	74.64 GB	97.31 MB	74.54 GB	NTFS	Prima	ary
昌 Align Partition		I:	68.53 GB	97.12 MB	68.44 GB	NTFS	Prima	ary
Wipe Partition								
E]) Set Label		•						
Change Drive Letter Change Partition Type ID Change Serial Number		Disk 1 MBR 500.00 GB System Resi 549 MB (Use	C:(NTFS) 59.5 GB (Usi 108	NTFS) 3.4 GB (Used: (	E:(NTFS) 134.4 GB (Use	(NTFS) d: 0%)	) GB (Used: 0%)	
∽≺ Hide Partition		Disk 2 MBR G:(NTFS)			H:(NTFS)		I:(NTFS)	
Check Partition	le 🖉	256.00 GB 112.8 GB (Us	sed: 0%)		74.6 GB (Used	d: 0%)	68.5 GB (Used: 0%	)

Step 7. Then click **Apply** button on the top to perform partition recovery.

eneral	View Disk Parti		ynamic Disk Wizar	d Help						<i>i</i> Too
/	Ϋ́								<u>o</u>	
pply	Undo Discard I	Data Reco	overy Partition Reco	very Disk Ber	nchmark Space	Analyzer			Bootable Media	Manu
Chang	je Partition	$\bigcirc$	Partition		Capacity	Used	Unused	File System	Туре	
≓ M	love/Resize Partition	Ŭ	🔷 Disk 1	VMware, VM	ware Virtual S SA	AS, MBR, 500.00 (	GB)			
2 B	xtend Partition		*:System F	eserved	549.00 ME	374.37 MB	174.63 MB	NTFS	Pri	imary
ωм	lerge Partition		C:		59.46 GE	3 21.91 GB	37.55 GB	NTFS	Pri	imary
JC S	plit Partition		F:		108.43 GE	107.34 MB	108.33 GB	NTFS	Pri	imary
	hange Cluster Size		E:		134.35 GE	3 108.23 MB	134.25 GB	NTFS	Lo	gical
φ O	onvert NTFS to FAT		J:		197.21 GE	3 119.14 MB	197.09 GB	NTFS	🗖 Lo	gical
Partiti	ion Management	$\bigcirc$	Disk 2	VMware, VM	ware Virtual S SA	AS, MBR, 256.00 (	GB)			
ش D	elete Partition						-			
🖳 Fi	ormat Partition		G:		112.83 GE	3 107.50 MB	112.72 GB	NTFS	Pri	imary
® 0	opy Partition		H:		74.64 GE	97.31 MB	74.54 GB	NTFS	Pri	imary
e a	lign Partition		I:		68.53 GE	97.12 MB	68.44 GB	NTFS	Pri	imary
ØW	/ipe Partition									
E) S	et Label		•							
₽ŧ C	hange Drive Letter		Disk 1				Ĩ.			
© ©	hange Partition Type ID	)	MBR	System Res		F:(NTFS)	E:(NTFS)	J:(NTF		
IIII C	hange Serial Number		500.00 GB	549 MB (Us	≆∬59.5 GB (Usi∬	108.4 GB (Used: )	D'∬134.4 GB (Us	ed: 0%) 197.2	GB (Used: 0%)	
∽~ H	ide Partition		Disk 2							
	Partition	$\bigcirc$	MBR 256.00 GB	G:(NTFS) 112.8 GB (U	Ised: 0%)		H:(NTFS) 74.6 GB (Use	ad: 0%)	I:(NTFS) 68.5 GB (Used: 0	10/ )

If Partition Recovery doesn't work, users can try the **Data Recovery** function in MiniTool Partition Wizard. Here are their differences.

Partition Recovery	Data Recovery
<ul> <li>Rebuild partition table.</li> <li>Recover lost/deleted partition as well as data in it.</li> <li>Allow previewing data structure.</li> <li>All data will be recovered.</li> </ul>	<ul> <li>Recover lost/deleted data from Recycle Bin/lost partition/damaged partition and CD/DVDs.</li> <li>Allow previewing data structure as well as some types of files.</li> <li>Allow scanning specified file types and only recover data users selected.</li> </ul>

# 39. Copy Disk

### 39.1 Copy Disk Wizard

**Copy Partition Wizard** feature copies all data from one partition to another without any data loss with ease. Compared with copying files directly, to copy partition helps users save much time. Therefore, when users plan to backup files saved in one partition, try copying the whole partition.

When MiniTool Partition Wizard is copying partition, data protection solutions such as power-off protection is activated automatically. Don't worry about data security even if power outage emerges without redundant power supply.

## 39.2 How to Copy Partition

Step 1. Run MiniTool Partition Wizard to get its main interface, directly choose the **Copy Disk Wizard** from the toolbar.

General View Disk	Partition D	ynamic Disk Wizard Help					Mini	• • • •
Apply Undo Discard	Data Recov	ery Partition Recovery Disk Be	nchmark Space Analy	zer			Bootable Media	Manua
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/	HD Wizard	🛶 Disk 1 (VMware, 1	/Mware Virtual S SAS,	MBR, 500.00 G	GB)			
Copy Partition Wiza	rd	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prima	ry
Copy Disk Wizard	1	C:	59.46 GB	34.66 GB	24.80 GB	NTFS	Prima	ry
Convert Disk	$\odot$	F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Prima	ry
Copy Disk		E:	134.35 GB	108.83 MB	134.25 GB	NTFS	🗖 Logica	al
Convert MBR Disk to	GPT Disk	I:	197.21 GB	119.64 MB	197.09 GB	NTFS	🗖 Logica	al
Clean Disk	$\odot$	Disk 2 (VMware,	/Mware Virtual S SAS,	MBR, 256.00 G	(B)			
🖉 Wipe Disk		G:	112.83 GB	68.35 MB	112.76 GB	NTES	Prima	rv
Delete All Partitions		H:	74.64 GB	97.29 MB	74.54 GB	NTES	Prima	·
Check Disk	$\odot$	1:	68.53 GB	97.10 MB	68.44 GB	NTES	Prima	·
Align All Partitions			00.00 00		00111 00			.,
C Rebuild MBR		•						
- Surface Test		Disk 1						
Partition Recovery		MBR System 500.00 GB 549 MB	Res C:(NTFS) F:() (Use 59.5 GB (Use 108	NTFS)	E:(NTFS)	I:(NTFS	5) 3B (Used: 0%)	
Disk Properties		549 MB	(05-153-5 GB (05) 108	db (Used: C	134.4 GB (USe	u. u///)	ib (0380: 0%)	
🗟 Data Recovery		Disk 2						
0 Operations Pending		MBR 256.00 GB G:(NTFS 112.8 G	5) 3 (Used: 0%)		H:(NTFS) 74.6 GB (Used	d: 0%)	J:(NTFS) 68.5 GB (Used: 0%)	
GPT/Primary Log	ical 🔲 Sim	ple Spanned Striped	Mirrored RA	D5 🔲 Unallo	restod		6	<b>J</b> (

#### Step 2. Click Next to continue.

MiniTool Partition Wiz	ard Pro 11		– 🗆 ×
General View Disk	Partition Dynamic Disk Wilzard Help		Mini Tool
Apply Undo Discard	Copy Disk Wizard Welcome to Copy Disk Wizard This wizard helps you to create a copy of hard disk.	×	ootable Media Manual
Wizard Migrate OS to SSD Copy Partition Wiz			Type  Primary
Copy Disk Wizard	To continue, click Next.		Primary Primary Logical
☑ Convert MBR Disk Clean Disk			E Logical
Check Disk  Align All Partitions			Primary Primary Primary
Rebuild MBR     Surface Test     Partition Recovery			
Disk Properties     Data Recovery     Operations Pending	<u>Copy Disk Tutorial</u> 256.00 GB 112.8 GB (Used: 0%)		Used: 0%) (TFS) 1.5 GB (Used: 0%)
GPT/Primary	pical 🖾 Simple 🛄 Spanned 🛄 Striped 🖪 Mirrored 🚦	RAIDS Unallocated	0 4 0

🯄 MiniTool Partition Wiz	ard Pro 11			– 🗆 ×
General View Disk	Partition Dynamic Disk Wizard	Неір		Mini Tool
νбX	🯄 Copy Disk Wizard		×	<u>o</u> 🖪
Apply Undo Discard	Select Disk to copy Choose a disk you would like to c	сору.		ootable Media Manual
Wizard (a) Migrate OS to SSI (b) Copy Partition Wiz	On this page, you can choose a disk you will choose on the next page.	you like to copy. All partitions from t	this disk will be copied to the destination	Туре
Copy Disk Wizard		(NTFS) F:(NTFS) E:(NTFS) 0.5 GB (Usi 108.4 GB (Usec 134.4 G		Primary Primary
Convert Disk	Disk C	Capacity M	Iodel	Primary
Convert MBR Disk	Disk 1 5	500.00 GB V	Mware, VMware Virtual S SAS	Logical
Clean Disk	Disk 2 2	256.00 GB V	Mware, VMware Virtual S SAS	
Ø Wipe Disk				Primary
Check Disk				Primary     Primary
L Align All Partitions				
Rebuild MBR Surface Test				
A Partition Recovery				
E Disk Properties				Used: 0%)
B Data Recovery	? Copy Disk Tutorial		< <u>B</u> ack <u>N</u> ext > Cancel	
0 Operations Pending	256.00 GB 1	12.8 GB (Used: 0%)	74.6 G8 (Used: 0%)	68.5 GB (Used: 0%)
GPT/Primary 🔛 Lo	gical 🖾 Simple 🛄 Spanned 🖾 S	Rriped 🛄 Mirrored 🛄 RAIDS	Unallocated	040

Step 3. Select the disk users would like to copy and click Next.

Step 4. Choose a target disk where the copy will be stored and click **Next** to continue. Then click **Yes** to continue.

View Def Petrice     View     View <th>🚧 MiniTool Partition Wiz</th> <th>ard Pro 11</th> <th>_ 🗆 ×</th>	🚧 MiniTool Partition Wiz	ard Pro 11	_ 🗆 ×
Select target Disk   Magnet Convert Disk   Disk All Partices   Rabuit Mill   Align All Partices   Chait Propertise   Disk Propertise   Disk Propertise   Convert Disk   Convert Disk <th>General View Disk</th> <th>Partition Dynamic Disk Wizard Help</th> <th>Mini Tool</th>	General View Disk	Partition Dynamic Disk Wizard Help	Mini Tool
Select a target disk. All data from the source disk will be copied there. During copy operation, target disk   Copy Disk Visual   Copy Disk Visual   Copy Disk   Copy Disk   Disk 2   Disk 1   Disk 1   Disk 2   All the data on the disk will be destroyed. Are you sure that you want to continue?   re Virtual S SAS   re Virtual S SAS   Primary   Primary   Primary   Primary   Primary   Primary   Primary	Apply Undo Discard	Select target Disk	- <u>-</u>
Copy Disk   Convert MBR Disk   Convert MBR Disk   Cleans Dis	Capy Partition Wa	content will be deleted.	Primary
Check Disk Align All Partitions © Rebuild MBR Surface Test Primary Disk Properties Align All Partition Recovery © Copy Disk Tutorial < Surface Next > Cancel	Copy Disk	Disk 1 Disk 2 Disk 2	Logical
Surface Test	Check Disk		Primary
	Surface Test		v Joed: 0%)
0 Operations Pending         256.00 GB         112.8 GB (Used: 0%)         74.6 GB (Used: 0%)         68.5 GB (Used: 0%)           G GPT/Primary         Logical         Simple         Sprined         Striped         Mirrored         RAIDS         Unallocated         Image: Simple         Sprined         Striped         Striped	0 Operations Pendin	256.00 GB 112.8 GB (Used: 0%) 74.6 GB (Used: 0%)	407F5) 68.5 G8 (Used: 1%)

Note: Please backup important data on the target disk in advance because all its data will be deleted during copy operations.

Step 5. Choose a copy method and click Next.

🯄 MiniTool Partition Wiza	ard Pro 11	_ 🗆 ×
General Wew Disk	Partition Dynamic Disk: Wizard Help	Mini Tool
Apply Undo Discard	Copy Disk Wizard X Review the changes On this page you can review the changes you have been made.	ootable Media Manual
Wizard Migrate OS to SSB Copy Partition Will Copy Disk Willard Convert Disk Copy Disk	Copy Options: <ul> <li>1. Fit partitions to entire disk.</li> <li>2. Copy partitions without resizing.</li> <li>✓ Align partitions to 1 MB. (It could improve performance for Advanced Format disk &amp; SSD.)</li> <li>Use GUID Partition Table for the target disk. (It can support disk larger than 2 TB.)</li> </ul>	Type Primary Primary Primary Logical
Convert MBR Disk: Clean Disk & Wipe Disk	Disk 2         MBR         System Res.         (NTFS)         (NTFS	E Logical
Delete All Partition     Check Disk     Align All Partitions	Change Selected Partition: 574.00 MB (Used:374.00 MB)	Primary Primary
<ul> <li>Rebuild MBR</li> <li>Surface Test</li> <li>Partition Recovery</li> <li>Disk Properties</li> </ul>	Unallocated Space Before:       0.00       ↓       MB       ▼         Partition Size:       574.62       ↓       MB       ▼         Unallocated Space After:       0.00       ↓       MB       ▼	Used: 0%)
Data Recovery     Operations Pending     GPT/Primary     Lo	•	NTFS) I.5 GB (Used: 1%)

#### Attention:

1. For SSD users, it is highly recommended to Align partitions to 1MB option, which can improve disk performance.

2. If users want to copy disk to GPT disk, Use GUID Partition Table for the target disk option is limited in Free Edition of MiniTool Partition Wizard, but the Professional Edition or an advanced one is available.

Step 6. Read the note carefully which shows how to boot from the target disk, and click **Finish** to go back to the main interface.

🐞 MiniTool Partition Wiz	ard Pro 11	– 🗆 ×
General Wew Disk	Partition Dynamic Disk Wizard Help	Mini Tool
Apply Undo Discard	Copy Disk Wizard     K Boot from the Destination disk How to boot from the Destination disk?	ootable Media
Wizard		Туре
Gi Migrate OS to SSI ④ Copy Partition Wilz 〇 Copy Disk Wilzard	Please NOTE: To boot from the new disk, please configure computer BIOS setting. Make sure the new disk is configured as the	Primary
Convert Disk	default boot disk.	Primary Primary Logical
Clean Disk		Logical
Delete All Partition		Primary     Primary
Check Disk Align All Partitions Rebuild MBR Surface Test Partition Recovery Disk Properties		Primary
Data Recovery     Operations Pending		NTFS) .5 GB (Used: 0%)
GPT/Primary 🔛 Lo	gical 🔲 Simple 🛄 Spanned 🛄 Striped 🛄 Mirrored 🔛 RAIDS 🛄 Unallocated	0 y 6

Step 7. Click **Apply** to execute all changes.

eneral View Disk Partition	Dyna	mic Disk Wizard Help					Mini Too
	ecovery	Partition Recovery Disk Benchr	mark Space Analy	zer		Вс	Dotable Media Man
	~) ^	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizar		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
Copy Partition Wizard		C:	59.46 GB	34.66 GB	24.80 GB	NTFS	Primary
Copy Disk Wizard		F:	108.43 GB	107.37 MB	108.33 GB	NTFS	Primary
Convert Disk	•	E:	134.35 GB	108.83 MB	134.25 GB	NTFS	Logical
Copy Disk		I:	197.21 GB	119.64 MB	197.09 GB	NTFS	Logical
Convert MBR Disk to GPT Dis	k	w Disk 2 (VMware, VMw	are Virtual S SAS,	MBR, 256.00 0	GB)		
Clean Disk (	0	G:System Reserved	574.62 MB	374.37 MB	200.25 MB	NTFS	Primary
🖉 Wipe Disk		н:	35.16 GB	34.66 GB	509.00 MB	NTFS	Primary
Delete All Partitions		J:	55.52 GB	107.37 MB	55.41 GB	NTFS	Primary
Check Disk (	0	К:	68.79 GB	108.83 MB	68.68 GB	NTFS	Logical
邑 Align All Partitions		L:	95.97 GB	119.64 MB	95.85 GB	NTFS	Logical
Rebuild MBR		•					,
- Surface Test		Disk 1			1		
Partition Recovery		MBR System Res		NTFS)	E:(NTFS)	I:(NTFS)	
Disk Properties		549 MB (Use	59.5 GB (Usi 108	1.4 GB (Used: (	134.4 GB (Used	i: 0%) 197.2 GB (U	Isea: 0%)
🕞 Data Recovery		Disk 2					
16 Operations Pending		MBR G:System Ri 256.00 GB 575 MB (Use	H:(NTFS) J:(N 35.2 GB (Us 55.5	TFS) i GB (Used: 0%	K:(NTFS) 68.8 GB (Used:	0%) L:(NTFS) 96.0 GB (U	sed: 0%)
GPT/Primary 🔲 Logical 🔲	* Simple	Spanned Striped	Mirrored 🔲 RAJ	D5 🔲 Unallo			

# 40. Rebuild MBR

### 40.1 About Rebuild MBR

<u>MBR</u> (Master Boot Record) is a special type of loader code at the very beginning of computers' hard disk. It contains an operating system bootloader and the storage device's <u>partition table</u>. When DOS reads hard disk, MBR will help to check whether the partition is legal and locate the partition boot information.

And, the loader code is variable. Thus, users can boot MBR from multiple operating systems. It can be found in FDISK program. MBR will pass the control over to the certain operating system which has been registered in the partition table.

However, MBR could be damaged due to various attack, mistaken operation, or sudden power failure. Once MBR is damaged, users may encounter boot problems such as MBR error 3 and see Windows black screen.

**Rebuild MBR** of MiniTool Partition Wizard helps rebuild MBR in quite simple operations even if Windows cannot boot. That is because this partitioning program offers a bootable disc to boot computer without Windows.

#### 40.2 How to Rebuild MBR

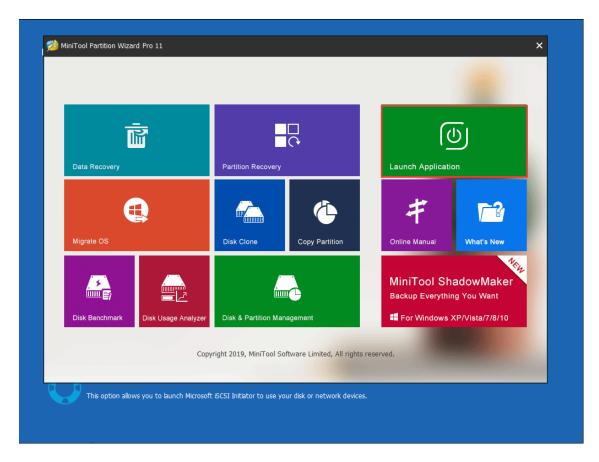
Since Windows cannot boot, users can use the **Bootable Media Builder** feature to <u>create bootable</u> <u>CD/DVD/USB flash drive</u> or build an ISO image of a bootable disc. After that, <u>use the bootable</u> <u>disk to start computer</u> to get the following window.

**Kindly reminder:** the free edition of MiniTool Partition Wizard doesn't provide Bootable Media Builder.

Step 1. Please choose the first option **Partition Wizard** to enter the main interface of MiniTool Partition Wizard.

MiniTool	PE Loader
	Partition Wizard Launch Partition Wizard
	Reboot Reboot your PC.
	Shutdown Power off your PC.
	Load Drivers This option allows you to load the RAID, Network Interface Card drivers to use your disk or network devices.
	Command Console Launch Command Console to run Microsoft tools
	iSCSI Initiator This option allows you to launch Microsoft ISCSI Initiator to use your disk or network devices.

Step 2. Launch MiniTool Partition Wizard.



Step 3. Select the system disk which is suffering MBR damage and click Rebuild MBR from the

left panel.

🗯 MiniTool Partition Wizard	Pro 11						- 0 ×
General View Disk Pa	artition Dynam	ic Disk Wizard	Help			Min	i Tool
Apply Undo Discard	Data Recovery	Partition Recover	ery Disk Ben	chmark Space Ar	_		Manual
2 Convert MBR Disk to G	PT Disk	Partition		Capacity	Used	Unused	File
Clean Disk	$\odot$	<b></b> Disk 1 (\	/Mware, VMv	vare Virtual S SAS	, MBR, 500.00 (	GB)	
🖉 Wipe Disk		C:System Re	served	549.00 MB	374.37 MB	174.63 MB	
Delete All Partitions		I:		59.46 GB	21.98 GB	37.48 GB	
Check Disk	$\overline{\mathbf{O}}$	J:		108.43 GB	107.35 MB	108.33 GB	
昌 Align All Partitions		E:		134.35 GB	108.83 MB	134.25 GB	
C Rebuild MBR		F:		58.85 GB	941.76 MB	57.93 GB	
Surface Test							• • •
Partition Recovery		Disk 1					
Disk Properties		MBR 500.00 GB	C:System	I:(NTFS) J:(NT		F:(FAT32)	
📾 Data Recovery		300.00 GB	549 MB (U	59.5 GB (U 108.4	GE 134.4 GB (	(  58.8 GB (U   1	138.4 GB (L
0 Operations Pending	Ţ.	Disk 2 MBR 256.00 GB	D:(NTFS) 67.7 GB (Us	ed: 0 <sup>4</sup> (NTFS) 106.2 GB (1	Used: 0%)	H:(NTFS) 82.0 GB (U	sed: 0%)
🗖 GPT/Primary 🔲 Logica	al 🔲 Simple	Spanned	Striped	Mirrored 🔲 RA	AID5 🔲 Unall	ocated 🥤	) 🌱 😵

Step 4. At last, click **Apply** button to apply the change.

🟂 MiniTool Partition Wizard Pro	11	– 🗆 ×
General View Disk Partitic	n Dynamic Disk Wizard Help 🧖	ini Tool
~ ~ X		
Apply Undo Discard Da	ta Recovery Partition Recovery Disk Benchmark Space Analyzer	Manual
2 Convert MBR Disk to GPT D	isk Partition Capacity Used Unused	File
Clean Disk	Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)	
🖉 Wipe Disk	C:System Reserved 549.00 MB 374.37 MB 174.63	МВ
🔟 Delete All Partitions	I: 59.46 GB 21.98 GB 37.48	GB
Check Disk	<ul> <li>J: 108.43 GB 107.35 MB 108.33</li> </ul>	GB
을 Align All Partitions	E: 134.35 GB 108.83 MB 134.25	GB
© Rebuild MBR	F: 58.85 GB 941.76 MB 57.93	GB
Surface Test	<	• • •
Partition Recovery	Disk 1	
Disk Properties	MBR C:System I:(NTFS) J:(NTFS) E:(NTFS) F:(FAT32 500.00 GB 540 MB (11 59 5 GB (1 108 4 GE 134 4 GB (1 58 8 GB (	
📾 Data Recovery	500.00 GB 549 MB (U 59.5 GB (U 108.4 GE 134.4 GB (U 58.8 GB (	u 138.4 GB (l
1 Operations Pending - 1. Rebuild MBR on Disk 1	Disk 2 MBR 256.00 GB D:(NTFS) 67.7 GB (Used: 0 <sup>4</sup> ) K:(NTFS) 106.2 GB (Used: 0 <sup>6</sup> ) H:(NTF	S) I (Used: 0%)
🗖 GPT/Primary 🔲 Logical	Simple Spanned Striped Mirrored RAID5 Unallocated	<b>() ¥ ()</b>

And after application, users need to quit from MiniTool Partition Wizard bootable disc and boot from the local hard drive

# 41. Delete All Partitions

## 41.1 About Delete All Partitions

**Delete All Partitions** feature provided by MiniTool Partition Wizard can remove multiple partitions off at a time. If users have got multiple partitions to delete, Delete All Partitions feature is labor-saving.

Note: Do not operate disk containing boot partition, otherwise boot failure may appear.

## 41.2 How to Delete All Partitions

Users can follow the MiniTool Partition Wizard tutorial on how to delete all partitions below:

Step 1. Select a way to activate certain feature according to preference:

• Strategy A: Choose the disk whose partitions need to be deleted and click Delete All

Partitions from left action panel.

- Strategy B: Choose target disk and click **Disk** in menu. After that, click **Delete All Partitions** from dropdown menu.
- Strategy C: Right click the target disk and then click **Delete All Partitions** from pop-up context menu.

General View Disk Partition Dynamic Disk Wizard Help Mini Tool									
$\checkmark$ $\checkmark$ $\times$		(intra)							
pply Undo Discard	Data Recov	very Partition R	ecovery Disk Bend	chmark Space Ana	lyzer			Bootable Medi	a Manu
Wizard	Ô	Partition		Capacity	Used	Unused	File Syster	n Ty	pe
Migrate OS to SSD/HD	Wizard	🛶 Disl	<b>2</b> (VMware, VMw	are Virtual S SAS, (	GPT, 3.00 TB)				
🐣 Copy Partition Wizard		F:		82.74 GB	97.62 MB	82.65 GB	NTFS	5 🗖	GPT (Data
Copy Disk Wizard		H:		1453.38 GB	221.40 MB	1453.16 GB	NTFS	5 🗖	GPT (Data
Convert Disk	$\overline{\mathbf{O}}$	G:		32.75 GB	65.72 MB	32.69 GB	FAT3	2	GPT (Data
Copy Disk		*:	邑 Align All Parti	tions	0 8	1503.12 GB	Unalloca	ated 🔲	GPT
Convert GPT Disk to MBR Disk			前 Delete All Par	Delete All Partitions tual S SAS, MBR, 256.00 GB")					
Clean Disk	$\bigcirc$	E:	🗊 Сору		108.01 MB	127.97 GB	NTES	5 🗖	Simple
🖉 Wipe Disk	. 1	*:			263.00 KB	7.74 MB	Ext2		Simple
Delete All Partitions			🖨 Data Recover	у					
Check Disk	$\bigcirc$	•	🔒 Partition Reco	overy					,
음 Align All Partitions		Disk 1	🖉 Wipe Disk		cated)				
Surface Test		500.00	2 Convert GPT	Disk to MBR Disk	B				
Partition Recovery		Disk 2	Properties						
<ul> <li>Disk Properties</li> <li>Data Recovery</li> </ul>	GPT GPT					G:(FAT3) 32.8 GB	2) (Unallocate	d)	
					,				
0 Operations Pending		Disk 3 MBR 256.00	E:(NTFS)	nple		(Ext2) ( 8 MB,Simple 1	Unallocated) 27.9 GB		

Step 2. In this interface, click Yes button to let the software execute partition deleting command.

🯄 Mi	niTool Partition Wizard	Pro 11								– 🗆 ×
Gener	al View Disk Pa	artition Dyr	namic Disk Wizard	Help					Min	i Tool
$\checkmark$	Υ		inne	<b>_</b>					٢	0
Apply	Undo Discard	Data Recov	very Partition Recov	ery Disk Benchr	mark Space Ana	lyzer			Bootable Media	Manual
Wiz	ard	$\odot$	Partition		Capacity	Used	Unused	File Syster	т Тур	e ^
6	Migrate OS to SSD/HD	Wizard	🥌 Disk 2 (	VMware, VMwar	e Virtual S SAS, (	GPT, 3.00 TB)				
٢	Copy Partition Wizard		F:		82.74 GB	97.62 MB	82.65 GB	NTFS	5 🗖	GPT (Data
F	Copy Disk Wizard		н:		1453.38 GB	221.40 MB	1453.16 GB	NTES	5 🗖	GPT (Data
Con	vert Disk	$\overline{\mathbf{O}}$	G:		32.75 GB	65.72 MB	32.69 GB	FAT3	2	GPT (Data
F	Copy Disk						× B	Unalloca	ated 🔲	GPT
2	Convert GPT Disk to M	BR Disk	🥻 Warning	J			C C C C C C C C C C C C C C C C C C C	)=\		
Clea	n Disk			Are you sure tha	t you want to del	ete all partition	s on disk 2 ?			_
Ø	Wipe Disk	Ŭ					В	NTES	5 🗖	Simple
寙	Delete All Partitions			Y	/es No		В	Ext2		Simple
Cho	ck Disk									• •
	Align All Partitions		Disk 1		- T					
	Surface Test		MBR 500.00 GB			allocated)				
	Partition Recovery		500.00 GB	549 MB (USE)	30.0 GB (Usi	.5 GB				
	Disk Properties		Disk 2		. (1999)					
æ	Data Recovery		3.00 TB		H:(NTFS) L453.4 GB (Used:	0%)	G:(FAT3 32.8 GB	2) (Unallocate (Usi 1503.1 GB	d)	
0.0	perations Pending		Disk 3							
0.01	crucions r chung		MBR	E:(NTFS)				(Unallocated)		
			256.00 GB	128.1 GB,Simp	le		_8 MB,Simple [∶	127.9 GB		]
G	PT/Primary 🔲 Logica	al 🔲 Simpl	e 🔲 Spanned [	Striped 📃 M	lirrored 🔲 RAI	05 🔲 Unalloo	cated			<b>)                                    </b>

Step 3. At last, click **Apply** to execute pending operations.

V S X							٢	
Apply Undo Discard	Data Recove	ery Partition Recovery Disk Ben	chmark Space Ana	lyzer			Bootable Medi	a Manu
Wizard	<pre></pre>	Partition	Capacity	Used	Unused	File Systen	n Ty	pe
Migrate OS to SSD/HD	) Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 MB	NTFS	5 🗖	Primary
🙆 Copy Partition Wizard		C:	30.00 GB	19.06 GB	10.94 GB	NTFS	5 🗖	Primary
Copy Disk Wizard		*:	469.46 GB	0 B	469.46 GB	Unalloca	ated 🔲	Logical
Convert Disk		🛶 Disk 2 (VMware, VMv	vare Virtual S SAS, (	GPT, 3.00 TB)				
Copy Disk		*.	3072.00 GB	0 B	3072.00 GB	Unalloca	ated 🗖	GPT
<ol> <li>Initialize to MBR Disk</li> </ol>		n and nich (inclusion						
은 Convert GPT Disk to M	IBR Disk	Dynamic Disk ("Disk						
Clean Disk		E:	128.08 GB	108.01 MB	127.97 GB	NTFS		Simple
🖉 Wipe Disk	Ŭ	*:	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Check Disk		•						•
Surface Test		Disk 1						
Partition Recovery		MBR System Res 500.00 GB 549 MB (Use		allocated) .5 GB				
Disk Properties			λλ					
🖂 Data Recovery		Disk 2 GPT (Unallocated	i)					
3 Operations Pending		3.00 TB 3072.0 GB	,					
<ol> <li>Delete All Partitions of</li> </ol>	n Disk 2	Disk 3						
		MBR E:(NTFS) 256.00 GB 128.1 GB,Si			(Ext2) ( 8 MB,Simple 1	Unallocated)		

# 42. Align All Partitions

### 42.1 About Align All Partitions

Unlike Align Partition which just aligns a single partition, **Align All Partitions** feature aligns all hard drive partitions on an SSD disk or advanced format HD in one step. If users take one of the following operations, it is very necessary to align all partitions:

- Copy an <u>advanced format</u> HD or SSD to another advanced format HD or SSD.
- Change size or move location of multiple partitions.

### 42.2 How to Align All Partitions

Step 1. Run MiniTool Partition Wizard to get the main interface.

Step 2. Select the disk which needs aligning and choose **Align All Partitions** feature from the left action panel or from the right-click menu.

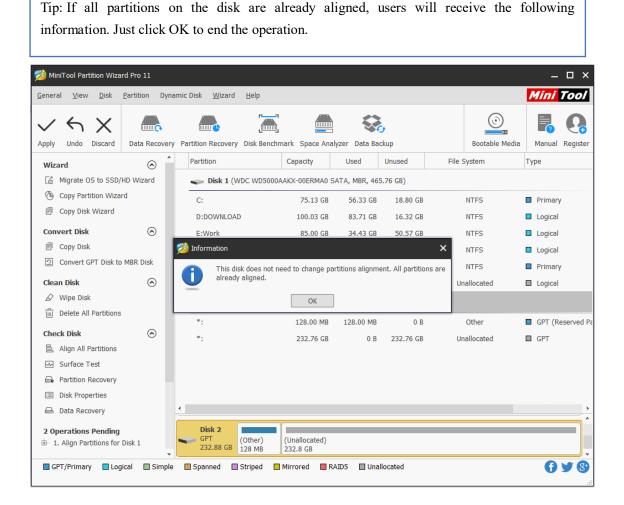
General View Disk	Partition Dy	namic Disk V	Vizard Help						Mini i	Tool
Apply Undo Discard	Data Recove	ry Partition Re	covery Disk Benchm	ark Space Anal	yzer Data Ba	ckup	Во	otable Media	Manual	Registe
Wizard	0	Partition		Capacity	Used	Unused	File Syster	m T	уре	
Migrate OS to SSD/     Copy Partition Wiza     Copy Disk Wizard	HD Wizard	C:	k 1 (WDC WD5000A) Align All Partitions	AKX-OOFRMAO S/	ATA, MBR, 46 56.33 GB 83.71 GB	5.76 GB) 18.80 GB 16.32 GB	NTF:		Primary	
Convert Disk Copy Disk Convert MBR Disk to	GPT Disk	E:V F:F H:N		5	34.43 GB 162.21 GB 3.74 MB	50.57 GB 41.72 GB 4.26 MB	NTE: NTE:	5 E	Logical Logical Primary	
Clean Disk	$\odot$		Data Recovery		0 B B, GPT, 232.8	1.65 GB 38 GB)	Unalloc	ated 🛛	Logical	
Delete All Partitions Check Disk 은 Align All Partitions ⓒ Rebuild MBR	©	*: 2	<ul> <li>Wipe Disk</li> <li>Convert MBR Disk t</li> <li>Properties</li> </ul>	o GPT Disk	128.00 MB 0 B	0 B 232.76 GB	Othe Unalloc		GPT (Re	served
Surface Test  A Partition Recovery  Disk Properties  Data Recovery  O Operations Pending		Disk     MBR     465.7	C:(NTFS) D	:DOWNLOAD(I 00.0 GB (Used		F:Files(NTFS) 203.9 GB (Used:	79%)	H:New Vol 8 MB (Used		catec

Step 3. If Partition Wizard detects misaligned partition(s), it will show how many partitions to align in total. Just confirm the operation by clicking **OK** button.

General View Disk	Partition Dy	namic Disk Wizard Help					191	ini Tool
$\checkmark$ $\checkmark$ $\times$			-					
Apply Undo Discard	Data Recove	ry Partition Recovery Disk Ben			·	Bootable Me		anual Registe
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/	HD Wizard	Disk 1 (WDC WD50	00AAKX-00ERMA0 SA	ATA, MBR, 465	5.76 GB)			
Copy Partition Wiza	rd	C:	75.13 GB	56.33 GB	18.80 GB	NTFS	P	rimary
Copy Disk Wizard		D:DOWNLOAD	100.03 GB	83.71 GB	16.32 GB	NTFS		ogical
Convert Disk	$\odot$	E:Work	85.00 GB	34.43 GB	50.57 GB	NTFS		ogical
Copy Disk		F 🯄 Information			×	NTFS	🗖 Lo	ogical
으 Convert MBR Disk to	GPT Disk		ool Partition Wizard	nanda ta alian	2 pertitions	NTFS	Pi	rimary
Clean Disk	$\odot$		OOI Partition Wizaru	needs to align	z parutions.	Unallocated		ogical
🖉 Wipe Disk		-	ОК					5
Delete All Partitions		1						
Check Disk	$\bigcirc$	*:	128.00 MB	128.00 MB	0 B	Other	G	PT (Reserved
Align All Partitions	0	*:	232.76 GB	0 B	232.76 GB	Unallocated	G	PT
ේ, Rebuild MBR								
Surface Test								
Partition Recovery								
Disk Properties		•						
Data Recovery		Disk 1						
1 Operations Pending		· · · · · · · · · · · · · · · · · · ·	D:DOWNLOAD(I 100.0 GB (Used				ew Volui ( 3 (Used: 1	Unallocatec
GPT/Primary Log		le 🔲 Spanned 🔲 Striped	Mirrored RA	ID5 🔲 Unal	llocated			6.46

Step 4. Click on **Apply** button on the top left corner to perform all operations.

<u>G</u> eneral <u>V</u> iew <u>D</u> isk	Partition Dyr	namic Disk <u>W</u> izard <u>H</u> elp					Mini Too
✓ ५ X					9		
Apply Undo Discard		ry Partition Recovery Disk Ben	· · ·	Used	Unused	Bootable Medi File System	
Wizard	$\odot$	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/	HD Wizard	Disk 1 (WDC WD50	00AAKX-00ERMA0 S	ATA, MBR, 465	5.76 GB)		
Copy Partition Wizar	ď	C:	75.13 GB	56.33 GB	18.80 GB	NTFS	Primary
Copy Disk Wizard		D:DOWNLOAD	100.03 GB	83.71 GB	16.32 GB	NTFS	Logical
Convert Disk	$\odot$	E:Work	85.00 GB	34.43 GB	50.57 GB	NTFS	Logical
Copy Disk		F:Files	203.93 GB	162.21 GB	41.72 GB	NTFS	Logical
Convert MBR Disk to	GPT Disk	H:New Volume	8.00 MB	3.74 MB	4.26 MB	NTFS	Primary
Clean Disk	۲	*:	1.65 GB	0 B	1.65 GB	Unallocated	Logical
		Disk 2 (Samsung S	SD 840 EVO 250G US	5B. GPT. 232.8	8 GB)		
Delete All Partitions		*.				016-11	
Check Disk	$\bigcirc$	· ·	128.00 MB	128.00 MB	0 B	Other	GPT (Reserved
昌 Align All Partitions	Ŭ	*:	232.76 GB	0 B	232.76 GB	Unallocated	GPT
C Rebuild MBR							
Surface Test							
Partition Recovery							
Disk Properties		•					
🗁 Data Recovery		Disk 1					
2 Operations Pending		MBR C:(NTFS) 465.76 GB 75.1 GB (	D:DOWNLOAD(I 100.0 GB (Used			79%) H:New 8 MB (1	Volui (Unallocatec Used: 1.6 GB



# 43. Wipe Disk

## 43.1 About Wipe Disk

Wipe Disk can destroy all information in selected disks safely and permanently. This function can ensure the security of users' privacy as well as unwanted data, and prevent someone from recovering those data.

Once the Wipe Disk operation is carried out by MiniTool Partition Wizard, the data will not be recovered by any <u>data recovery software</u>. If users employ the method of DoD 5220.28-STD, the data can't be recovered by any data recovery solutions.

## 43.2 How to Wipe Disk

Step 1. Launch the program to enter its main interface shown below. Then select the disk which needs to be wiped and choose **Wipe Disk** from the left action panel or from the right-click menu.

wizard       Wizard       Image: Copy Partitie       Image: Copy Disk W       Convert Disk	to SSD/HD Wizard	Partition Partition Partition Disk 2 (VMware, VMwa	-	alyzer			Bootable Media	<b></b>
Wizard I Migrate OS Copy Partition Copy Disk M	to SSD/HD Wizard	Partition					Rootable Modia	
Migrate OS     Copy Partitio     Copy Disk V	to SSD/HD Wizard on Wizard		Capacity	11			bootable Media	a Manua
<ul> <li>Copy Partition</li> <li>Copy Disk W</li> </ul>	on Wizard	车 Disk 2 (VMware, VMwa		Used	Unused	File Systen	m Ty	)e
Copy Disk W			are Virtual S SAS,	, GPT, 3.00 TB)				
,		F: Align All Partitions		97.62 MB	82.65 GB	NTFS	5 🗖	GPT (Data
Convert Dick	Vizard	H: Delete All Partition	s	221.40 MB	1453.16 GB	NTFS	6 🗖	GPT (Data
CONVERCISION	$\bigcirc$	G: 🗉 Copy		65.72 MB	32.69 GB	FAT32	2 🗖	GPT (Data
Copy Disk		*: 🐼 Surface Test		0 B	1503.12 GB	Unalloca	ated 🔲	GPT
② Convert GPT	F Disk to MBR Disk	👝 🔒 Data Recovery		e Virtual S SAS,	MBR, 256.00 GB	(")		
Clean Disk	$\bigcirc$	E: A Partition Recovery		108.01 MB	127.97 GB	NTFS		Simple
🖉 Wipe Disk		*. 🖉 Wipe Disk		263.00 KB	7.74 MB	Ext2		Simple
Delete All Pa	artitions	Convert GPT Disk t	o MBR Disk	203.00 Kb	7.74 100	LAIZ		Simple
Check Disk	$\bigcirc$	Properties						•
을 Align All Par	rtitions	Disk 1						
Surface Tes	st	MBR System Res 500.00 GB 549 MB (Use	C:(NTFS) (Ur 30.0 GB (Us) 469	nallocated) 9.5 GB				
Partition Re	covery		·		T	1		
Disk Property	ties	Disk 2 GPT F:(NTFS)	H:(NTFS)		G:(FAT3	2) (Unallocated	d)	
Data Recove	ery	3.00 TB 82.7 GB (Us	1453.4 GB (Used	1: 0%)	32.8 GB	(Ús 1503.1 GB		
0 Operations P	5	Disk 3 MBR 256.00 GB E:(NTFS) 128.1 GB,Sim	ple		(Ext2) ( 8 MB,Simple 1	(Unallocated) 127.9 GB		

Step 2. Choose one of the five wiping methods listed on the pop-out window and click **OK**. Different wiping methods cost different time and bring different security. To be specific, the more time it costs, the higher security you enjoy.

🖄 MiniTool Partition Wizard Pro 11		×
General View Disk Partition D	ynamic Disk Wizard Help	Mini Tool
Apply Undo Discard Data Rec	Divery Partition Recovery Disk Benchmark Space Analyzer	Bootable Media         Manual
Wizard (	Partition     Capacity     Used     Unused     File System	
<ul> <li>Migrate OS to SSD/HD Wizard</li> <li>Copy Partition Wizard</li> </ul>	Wiping Disk or Partition X	GPT (Data
Copy Disk Wizard	Wiping Disk will remove every sector of data on the disk. Data once wiped can not be recovered by any data recovery solutions.	G GPT (Data
Convert Disk	FAT32	2 GPT (Data
Copy Disk	Destination Device: (Disk 2) Unallocal	ated 🔲 GPT
Convert GPT Disk to MBR Disk	Descritation Device. (Disk 2)	
Clean Disk	Wiping Method:	
∠ Wipe Disk	Fill Sectors with Zero (Quick)	S Simple
Delete All Partitions	Fill Sectors with One (Quick) Ext2	Simple
m Delete All Partitions	O Fill Sectors with Zero & One ( Slow )	v
Check Disk	O DoD 5220.22-M (3 passes) ( Very Slow )	•
을 Align All Partitions	O DoD 5220.28-STD (7 passes) ( Very Slow )	
🕞 Partition Recovery	Wipe Partition Tutorial         OK         Cancel	)
Disk Properties	Disk 2 GPT E:(NTES) H:(NTES) G:(EAT32) (Unallocated	
🕞 Data Recovery	GPT         F:(NTFS)         H:(NTFS)         G:(FAT32)         (Unallocated)           3.00 TB         82.7 GB (Usi)         1453.4 GB (Used: 0%)         32.8 GB (Usi)         1503.1 GB	1)
0 Operations Pending	Disk 3 MBR 256.00 GB E:(NTFS) 128.1 GB,Simple (Ext2) 8 MB,Simple (Unallocated) 127.9 GB	
🔲 GPT/Primary 🔲 Logical 🔲 Sim	ole Spanned Striped Mirrored RAID5 Unallocated	1 9 8

Step 3. Now users can see the selected disk becomes unallocated, which means it will be wiped thoroughly. At this time, please click **Apply** button on the top to perform all changes.

# 44. Disk Surface Test

## 44.1 About Disk Surface Test

Sometimes, when performing some specific operations or open some files, the computer is significantly running slow or the disk is ticking. Such problems might occur when there are some <u>bad sectors</u> on the hard disk. Nevertheless, how to confirm whether there is bad sector?

MiniTool Partition Wizard can help users in this case since it provides **Disk Surface Test** function to scan each sector status by reading data from the sector. After scanning, disk block without reading error will be marked with green color, and disk block with reading error will be marked with red.

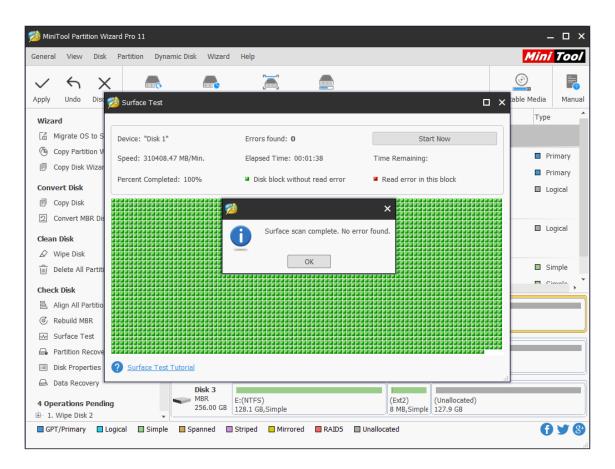
If there are some bad sectors, please first transfer all data on this disk out and then use specific software to shield bad tracks. After shielding, if there are still red disk blocks, users have to turn to professionals to repair the physical bad sectors.

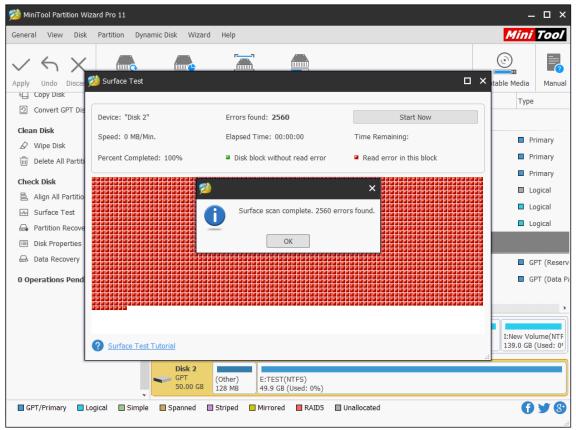
## 44.2 How to Make Disk Surface Test

Step 1. Click the target disk to select **Surface Test** from the left action panel, or right-click the target disk at first, and then select Surface Test from the drop-down menu.

eneral View Disk Pa	,	namic Disk Wizard	Help							ní Too
✓ < ×	í de la constante de la consta								©_	
Apply Undo Discard	Data Reco	very Partition Recove	ry Disk Benchm	nark Space Ar	alyzer				Bootable Med	ia Manu
Wizard	Ô	Partition		Capacity	Used		Unused	File Syster	n T	ype
Migrate OS to SSD/HD	) Wizard	🥌 Disk 1 (VI	Mware, VMware	virtual S SAS	, MBR, 500.0					
Copy Partition Wizard		*:System Res	을 Align All F	artitions		мв	149.68 MB	NTFS	5 🗖	Primary
Copy Disk Wizard		C:	💿 Rebuild M	IBR		GB	10.94 GB	NTES	5 🗖	Primary
Convert Disk	$\bigcirc$	*:	🗑 Delete All	Partitions	c	0 в	469.46 GB	Unalloca	ated	Logical
Copy Disk		Disk 2 (VI	🗊 Сору		-	ТВ)				
Convert MBR Disk to G	PT Disk	*:	🖂 Surface T	est	-	0 В	3072.00 GB	Unalloca	ated	Logical
Clean Disk	$\bigcirc$	Se Dynamic	📾 Data Reco	overy			MBR, 256.00 GE	ויינ		<b>3</b>
			🔒 Partition F	Recovery	ł					Circula
Delete All Partitions		E:	🖉 Wipe Disk	t.	ſ	MB	127.97 GB	NTFS		Simple
Check Disk	$\overline{\mathbf{O}}$		Convert N	1BR Disk to GPT						,
Align All Partitions		Disk 1 MBR	Properties	5	1					
Rebuild MBR Surface Test		500.00 GB	כן אפט) אויז פויל	0.0 GB (USI) 40	9.3 68					
Partition Recovery		Disk 2								
Disk Properties			(Unallocated) 3072.0 GB							
Data Recovery		Disk 2				1				
4 Operations Pending			E:(NTFS) 128.1 GB,Simpl	e			(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB		

Step 2. Click **Start Now** button in the new window to start disk surface test. Then, this software will automatically test the disk surface and show the result.





# 45. Disk Properties

### 45.1 About Disk Properties

Disk Properties reveals the physical information of the chosen disk. And MiniTool Partition Wizard shows these items in Disk Properties:

- Device Name
- Cylinder
- Heads
- Sectors Per Track
- Bytes Per Sector
- Physical Sectors
- Total Size
- MBR Signature (for MBR disk)/GPT GUID (for GPT disk)

## 45.2 How to View Disk Properties

Step 1. Select a disk, then click **Disk Properties** from the action panel or directly right-click the disk and choose **Properties** from the context menu.

MiniTool Partition Wiza		aria Diala Missard				
Seneral View Disk	Partition Dyna	mic Disk Wizard	Help			<u>Mini Too</u>
Apply Undo Discard	Data Recovery	Partition Recovery	Disk Benchmark Space Analyzer	Data Backun	Bootable Media	Manual Regist
Wizard		Partition		Used Unused	File System	Туре
Migrate OS to SSD/	HD Wizard	C:	을 Align All Partitions	65.76 GB)	NTFS	Primary
Copy Disk Wizard	۲	D:DOWNLOAD E:Work	<ul> <li>Rebuild MBR</li> <li>Delete All Partitions</li> </ul>	SB 16.38 GB	NTFS	Logical
Copy Disk Convert MBR Disk to		F:Files	In Copy In Surface Test	5B 41.65 GB	NTFS	<ul> <li>Logical</li> <li>Primary</li> </ul>
Clean Disk	$\odot$	*:	<ul> <li>Data Recovery</li> <li>Partition Recovery</li> </ul>	B 1.65 GB	Unallocated	Logical
Delete All Partitions	$\odot$	*:	Wipe Disk Convert MBR Disk to GPT Dis	4B 0 B	Other	GPT (Reserv
음 Align All Partitions ⓒ Rebuild MBR		·	Properties		on allocated	
Surface Test Partition Recovery Disk Properties	7		:(NTFS) 5.1 GB (Us 100.0 GB (Used: 85.	Vork(NTFS 0 GB (Usei 203.9 GB (Used		v Volui (Unallocat (Used: 1.6 GB
Data Recovery      O Operations Pending	-		Other) (Unallocated) 28 MB 232.8 GB			
GPT/Primary 🔲 Log	ical 🔲 Simple	Spanned Si	triped 🛄 Mirrored 🔲 RAID5	Unallocated		() ¥ (

Step 2. Then users are able to view the detailed properties of the selected disk.

MiniTool Partition Wiza General View Disk		amic Disk Wizard	Help			_ □ ∶ Mini Too
Apply Undo Discard	Data Recovery	Partition Recovery	Disk Benchmark Space	e Analyzer Data Backup	Bootable Media	Manual Regist
Wizard		🯄 Properties		×	File System	Туре
Migrate OS to SSD/		Disk Properties	Device Name:	WDC WD5000AAKX-00ERMA0 SATA	NTFS	Primary
Copy Disk Wizard			Cylinders:	60801	NTFS	Logical
Convert Disk	$\odot$		Heads:	255	NTFS	Logical
Copy Disk		S	ectors Per Track:	63	NTFS	Logical
Convert MBR Disk to	GPT Disk		Bytes Per Sector:	512	NTFS	Primary
Clean Disk	۲		Physical Sectors: Total Size: MBR Signature:	976773168 465.76 GB 0xb4c33002	Unallocated	Logical
Delete All Partitions	$\odot$				Other	GPT (Reserv
음 Align All Partitions	Ŭ				Unallocated	GPT
© Rebuild MBR						
Surface Test  Partition Recovery  Disk Properties		465.76 GB 75	<u>O</u> I 5.1 GB (Us 100.0 GB (	K (Used: 85.0 GB (Use) 203.9 GB (Used: 7		v Volui (Unallocat (Used: 1.6 GB
Disk Properties     Data Recovery     O Operations Pending	Ţ		Other) 28 MB 232.8 GB	ted)		
GPT/Primary Log	ical 🔲 Simple	Spanned St	triped 🔲 Mirrored	RAID5 Unallocated		G Y (

# 46. Create Volume

### 46.1 About Create Volume

With the help of **Create Volume** feature offered by MiniTool Partition Wizard, users can create dynamic disk volumes including Simple Volume, Spanned Volume, Striped Volume (Raid 0), Mirrored Volume (Raid 1) and Raid-5 Volume. Different volumes need different preconditions.

- Simple Volume: A <u>simple volume</u> is a dynamic volume that is made up of disk space from a single dynamic disk.
- **Spanned Volume:** A <u>spanned volume</u> is a dynamic volume consisting of disk space on more than one physical disk. At least two dynamic disks are required in addition to the startup disk to create a spanned volume.
- Striped Volume (Raid 0): A <u>striped volume</u> is a dynamic volume that stores data in stripes on two or more physical disks. Striped volumes offer the best performance of all the volumes that are available in Windows, but they do not provide fault tolerance.
- Mirrored Volume (Raid 1): A <u>mirrored volume</u> provides an identical twin of the selected volume. All data written to the mirrored volume is written to both volumes, which results in disk capacity of only fifty percent.
- **Raid-5 Volume:** Three hard drives, which can be IDE, SCSI or mixed structure, are entailed. All disks relevant to RAID-5 volume must be dynamic disks and operating system boot files and system files must be stored on another volume.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View 0 to know more.

### 46.2 How to Create Volume

To create dynamic volume, view the MiniTool Partition Wizard tutorial below:

Step 1. Select the segment of free space in dynamic disk and click **Create Volume** from the left action panel or select **Create Volume** from right-click menu.

MiniTool Partition Wizard Pro 11           General         View         Disk         Partition         Dy	namic Disk Wizard Help					Mi	– – – ) ni Tool
<ul><li>く &lt; ×</li></ul>	y Partition Recovery Disk Benchr	mark Space Analyz	zer			Bootable Med	
Wizard 🔿	Partition	Capacity	Used	Unused	File System	п Ту	/pe
Migrate OS to SSD/HD Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 MB	NTFS		Primary
Copy Partition Wizard	C:	30.00 GB	16.36 GB	13.64 GB	NTFS		Primary
🛱 Copy Disk Wizard	*:	469.46 GB	0 B	469.46 GB	Unalloca	ted 🔲	Logical
Partition Recovery Wizard	🧼 Disk 2 (VMware, VMw	are Virtual S SAS,	GPT, 3.00 TB)				
Dynamic Disk Management 📀	*:	3072.00 GB	0 B	3072.00 GB	Unalloca	ted 🗖	GPT
Create Volume     Convert Dynamic Disk to Basic	<b>Dynamic Disk</b> ("Disk 3	, VMware, VMware	Virtual S SAS	, MBR, 256.00 GB	")		
0 Operations Pending	E:	128.08 GB	108.01 MB	127.97 GB	NTFS		Simple
o operations Pending	*:	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
	•						•
		C:(NTFS) 30.0 GB (Usi) 469	allocated) .5 GB				
	Disk 2 GPT 3.00 TB (Unallocated 3072.0 GB	)					
	Disk 3 MBR 256.00 GB E:(NTFS) 128.1 GB,Sin	nple			Unall( 27.9	• Volume	
GPT/Primary 🔲 Logical 🔲 Simpl	e 🔲 Spanned 🔲 Striped 🔲	Mirrored 🔲 RAI	D5 🔲 Unallo	cated	G Conve	rt Dynamic Disk	to Basic
reate a new volume on disk group.							

Step 2. Choose the type of volume to be created in the popup window. The powerful partition manager can list out all supported types according to the practical situation (those that do not meet the requirement will turn grey). Select the available one and click **Next** button to enter the following interface.

🟂 MiniTool Partition Wiz	ard Pro 11	_ 🗆 ×
General View Disk	Partition Dynamic Disk Wizard Help	Mini Tool
Apply Undo Discard	Create Volume Wizard     X       Select Volume Type Select the type of volume being created.	ootable Media
Wizard		Type
<ul> <li>Copy Partition Wiz</li> <li>Copy Disk Wizard</li> <li>Partition Recovery</li> </ul>	Simple     Mirrored       Spanned     RAID-5	<ul> <li>Primary</li> <li>Logical</li> </ul>
Dynamic Disk Manage	O Striped	GPT
<ul> <li>Convert Dynamic I</li> <li>Operations Pending</li> </ul>		Simple
	Create Volume Tutorial     < Back Next > Cancel	
	256.00 GB         128.1 GB,Simple         8 MB,Simple         127.9 GB	
GPT/Primary 🔲 Lo	gical 🔲 Simple 🛄 Spanned 🛄 Striped 🛄 Mirrored 📕 RAID5 🛄 Unallocated	<b>() Y ()</b>

Step 3. Select the destination disk where volume is to be created by only choosing the corresponding disk and then clicking **Add** option to add this disk to the right box. After that, click **Next** button to continue:

p MiniTool Partition Wizard Pro 11	_ 🗆 X
General View Disk Partition Dynamic Disk Wizard Help	Mini Tool
Apply Undo Discard Select Disks Select the destination disks to create the volume on.	ootable Media
Migrate OS to SSD Select the disks you want to use, and then click Add.	Primary
Copy Partition Wiz Available: Selected:	Primary
Copy Disk Wizard Disk 3 262144 MB Add >	Logical
Dynamic Disk Manage	GPT
O Operations Pending  Create Volume Tutorial  Create Volume Tutorial  Create Volume Tutorial  Sector Restance  (8 MB,Simple)  (8 MB,Simple)  (8 MB,Simple)  (8 MB,Simple)  (8 MB,Simple)  (9 MB,Simple) (9 MB,Simple) (	
GPT/Primary Logical Simple Spanned Striped Mirrored RAIDS Unallocated	( <b>) y</b> (9)

Step 4. Set relevant parameters including Volume Label, File System, Driver Letter, <u>Cluster</u> Size and Volume Size/Volume Location for the newly created volume and then click **Finish** button to return to the main interface of the software.

🚧 MiniTool Partition Wizard Pro 11		_ O ×
General View Disk Partition Dy	namic Disk Wizard Help	Mini Tool
Apply Updo Discard Volume Siz		vootable Media
Wizard Please spec	ify the size and the location for the new volume.	Type
Migrate OS to SSD     Prease spec     Copy Partition Wiz		Primary
Copy Disk Wizard Volume Li	abel:	Logical
Recovery File Syste		
Dynamic Disk Manage	ze: Default 👻	GPT
E Create Volume Size And	Location	
Convert Dynamic D	89 GB (Used:0.00 MB)	Simple
0 Operations Pending		Simple
	Unallocated Space Before: 0.00 🗘 GB v Volume Size: 112.89 🗘 GB v	, <b>*</b>
	Unallocated Space After: 15.02 🗘 GB 💌	
? <u>Create \</u>	Colume Tutorial         < Back         Finish         Cancel           256.00 GB         128.1 GB,Simple         8 MB,Simple         127.9 GB	
🔲 GPT/Primary 🔲 Logical 🔲 Simp	ale 🧧 Spanned 🔲 Striped 🧧 Mirrored 📑 RAID5 📄 Unallocated	098

Step 5. Then a new volume appears in the chosen dynamic disk. To validate this operation, please click **Apply** button in the upper left corner.

eneral View Disk Partition	Dynamic Disk Wizard	d Help					Mini	100
くち×								
pply Undo Discard Data Rec	overy Partition Recover	y Disk Benchn	nark Space Analyz	er			Bootable Media	Manu
Wizard 📀	Partition		Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to SSD/HD Wizard	C:		30.00 GB	16.36 GB	13.64 GB	NTFS	Pr	imary
Copy Partition Wizard	*:		469.46 GB	0 B	469.46 GB	Unallocat	ted 🔲 Lo	gical
Copy Disk Wizard	🥌 Disk 2 (	VMware, VMw	are Virtual S SAS, (	GPT, 3.00 TB)				
🔒 Partition Recovery Wizard	*:		3072.00 GB	0 B	3072.00 GB	Unallocat	ted 🔲 GF	т
Dynamic Disk Management 🔗							.eu 🖬 Gr	1
Create Volume	🥌 Dynam	ic Disk ("Disk 3	, VMware, VMware	Virtual S SAS	, MBR, 256.00 GE	5")		
Delete Volume	E:		128.08 GB	108.01 MB	127.97 GB	NTFS	🔲 Si	mple
Format Volume	*:		8.00 MB	263.00 KB	7.74 MB	Ext2	🗖 Si	mple
Move/Resize Volume	F:		112.89 GB	67.93 MB	112.82 GB	NTFS	🗖 Si	mple
Copy Volume								
∠ Wipe Volume	Disk 1							
Volume Properties	MBR	System Res		allocated)				
E] Change Volume Label	500.00 GB	549 MB (Use	30.0 GB (Usi 469	5 GB				
Pa Change Volume Letter	Disk 2							
Change Volume Cluster Size	GPT 3.00 TB	(Unallocated) 3072.0 GB	)					
Green Convert Dynamic Disk to Basic		5072.0 GB						
Data Recovery	Disk 3	E:(NTFS)			xt2) F:(N			nallocat
1 Operations Pending	256.00 GB	128.1 GB,Sin	nple	8	MB,Simple 112.9	9 GB,Simple	15	.0 GB

# 47. Delete Volume

## 47.1 About Delete Volume

If a dynamic volume is no longer in need, users can make use of **Delete Volume** feature to acquire more unallocated space by removing the volume. Users can follow the MiniTool Partition Wizard tutorial below to remove the target volume.

Warning: All data in the selected volume (including all volumes slices) will be deleted when deleting a volume. Thus, be sure it is necessary to perform volume deletion.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 47.2 How to Delete Volume

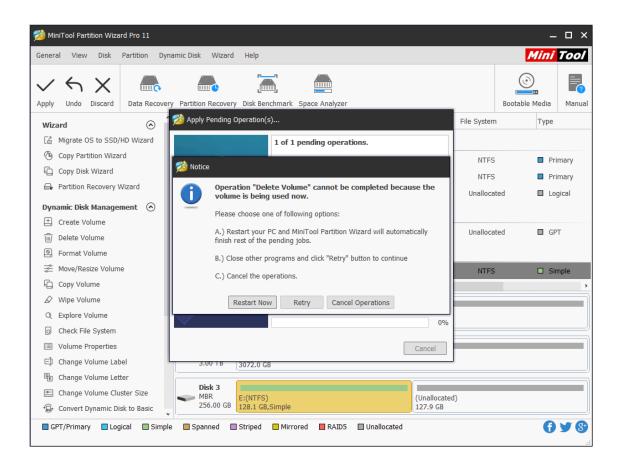
Step 1. Launch this software to enter the following main interface. Then select the volume which needs to be deleted and choose **Delete Volume** from the left action panel or right-click menu.

eneral View Disk Partition Dy	ynamic Disk Wizard Help					Mi	ni Tool
$\checkmark$ $\checkmark$ $\land$						٢	
pply Undo Discard Data Recover	ery Partition Recovery Disk Benchn	nark Space Analy	/zer			Bootable Me	dia Manu
Wizard 📀	Partition	Capacity	Used	Unused	File System	T	уре
Migrate OS to SSD/HD Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 M	IB NTFS		Primary
Topy Partition Wizard	C:	30.00 GB	16.36 GB	13.64 G	B NTFS		Primary
Copy Disk Wizard	*:	469.46 GB	0 B	469.46 G	B Unallocat	ted 🗖	Logical
Partition Recovery Wizard	🛶 Disk 2 (VMware, VMwa	are Virtual S SAS,	GPT, 3.00 TB)				
Dynamic Disk Management 🔗	*:	3072.00 GB	0 B	3072.00 G	B Unallocat	ted 🗖	GPT
Create Volume Delete Volume	<b>Dynamic Disk</b> ("Disk 3	, VMware, VMwar	re Virtual S SAS,				7
Format Volume	E:	128.08 GB	108.01 MB	127	Data Recovery		Simple
Copy Volume	*:	8.00 MB	263.00 KB	7.	Create Volume		Simple
∠ Wipe Volume	•			ŵ	Delete Volume		,
Volume Properties	Disk 1			0	Format Volume		
Change Volume Letter	MBR System Res		nallocated)	fa	Copy Volume		
Convert Dynamic Disk to Basic	500.00 GB 549 MB (USE	30.0 GB (Usi) 469	9.5 GB	Ø	Wipe Volume		-
🕀 Data Recovery	Disk 2				Volume Properties		
0 Operations Pending	GPT (Unallocated) 3.00 TB 3072.0 GB			G.	Change Volume Lett	er	
	Disk 3			9	Convert Dynamic Dis	sk to Basic	
	MBR 256.00 GB 128.1 GB,Sim	ple		(Ext2) 8 MB,Simple	(Unallocated)		

Step 2. Back to the main interface of the software, users can find that the selected volume has been removed from the dynamic disk. However, this is just a preview effect, users still need to click **Apply** button to finish the whole operation.

eneral View Disk Partition Dyna	amic Disk Wizard Help					Mini Too
pply Undo Discard Data Recovery	Partition Recovery Disk Benchr	mark Space Analyz	zer		Boota	ible Media Man
Wizard 📀 🔒	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	🛶 Disk 1 (VMware, VMw	are Virtual S SAS,	MBR, 500.00 GE	3)		
Copy Partition Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 MB	NTES	Primary
Copy Disk Wizard	C:	30.00 GB	16.36 GB	13.64 GB	NTES	Primary
Recovery Wizard	*.	469.46 GB	10.50 GB	469.46 GB	Unallocated	
Dynamic Disk Management (>) (	<ul> <li>Disk 2 (VMware, VMw</li> <li>*:</li> <li>Dynamic Disk ("Disk 3</li> </ul>	3072.00 GB	0 B	3072.00 GB MBR, 256.00 GB")	Unallocated	GPT
Move/Resize Volume	E:	128.08 GB	108.01 MB	127.97 GB	NTFS	Simple
Copy Volume	·					
Wipe Volume  Explore Volume		C:(NTFS) (Un 30.0 GB (Us/ 469	allocated) .5 GB			
Check File System						
<ul> <li>Volume Properties</li> <li>Change Volume Label</li> </ul>	Disk 2 GPT 3.00 TB 3072.0 GB	)				
🕒 Change Volume Letter						
Change Volume Cluster Size	Disk 3 MBR E:(NTFS)			(Unallocat	ed)	
Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Sin	nple		127.9 GB		

Please note that when managing dynamic disk and volume, MiniTool Partition Wizard always requires a reboot for data safety considerations. Please do as prompted.



# 48. Format Volume

## 48.1 About Format Volume

**Format Volume** feature helps format volumes with excessively redundant data or which are infected with rampant computer viruses. It can reset parameters including partition table, file system and <u>cluster</u> size for chosen volume. The following is the MiniTool Partition Wizard tutorial to format volume.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 48.2 How to Format Volume

Step 1. After running MiniTool Partition Wizard, users will get the following main interface. Then choose the volume which needs to be formatted and click **Format Volume** feature from the left action panel or the right-click menu.

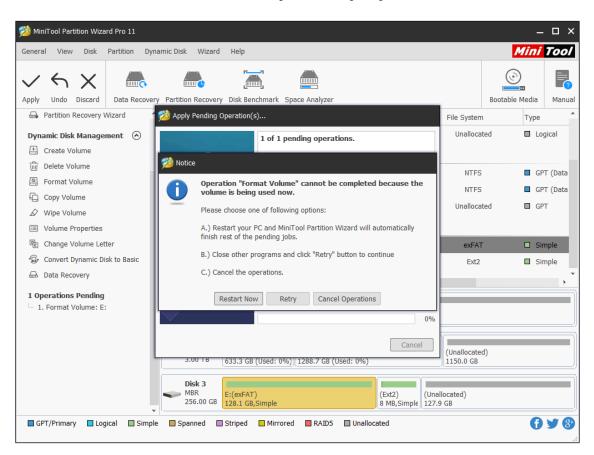
neral View Disk Partition Dyr	namic Disk Wizard F	telp				<u></u>	ni Tod
ply Undo Discard Data Recover	y Partition Recovery D	isk Benchmark Space Analyz	er			Bootable Me	dia Man
Recovery Wizard	Partition	Capacity	Used	Unused	File Syste	m T	уре
)ynamic Disk Management 📀	*:	469.46 GB	(	0 B 469.46 GB	Unalloc	ated	Logical
+ Create Volume	w Disk 2 (VMw	vare, VMware Virtual S SAS, (	SP 📾 Dat	a Recovery			
Delete Volume		633.32 GB	E Cre	ate Volume	NTE	s 🗖	GPT (Dat
S Format Volume	H:	1288.68 GB		ete Volume	NTE		GPT (Dat
😤 Move/Resize Volume	*.	1149.99 GB	_	mat Volume			I GPT
🗋 Copy Volume	· ·				1100	ateu	GFT
Wipe Volume	Synamic Dis	sk ("Disk 3, VMware, VMware	V ₹ Mo	ve/Resize Volume			
Q Explore Volume	E:	128.08 GB	Cop	py Volume	NTE	s 🗆	] Simple
Check File System	*:	8.00 MB	🖉 Wi	pe Volume	Ext	2	Simple
Volume Properties			Q Exp	olore Volume			
E] Change Volume Label	Disk 1		Q Che	eck File System			
Change Volume Letter	MBR Sy	stem Res C:(NTFS) (Una		ume Properties			
Change Volume Cluster Size	500.00 GB 54	9 MB (Use 30.0 GB (Use 469	5				
🕞 Convert Dynamic Disk to Basic	Disk 2			ange Volume Label			
Data Recovery		(NTFS) H:(NTFS)		ange Volume Letter	ocat		
Operations Pending	5.00 10 [63.	3.3 GB (Used: 0%) 1288.7 G	🖹 🖭 Cha	ange Volume Cluster	Size GB		
g		(NTFS) 8.1 GB,Simple	⊕ Cor	nvert Dynamic Disk to (کمند) 8 MB,Simple	Conanocacea,		

Step 2. Now set Volume Label, File System, and Cluster Size for the target volume, and then click **OK** to go back to the main interface.

p MiniTool Partition Wizard Pro 11			– 🗆 ×
General View Disk Partition Dyr	amic Disk Wizard Help		Mini Tool
$\checkmark$ $\checkmark$ $\land$			<u>o</u>
	y Partition Recovery Disk Benchmark Space Analyzer	Boota	able Media Manual
Partition Recovery Wizard	Partition Capacity Used	Unused File System	Туре
Dynamic Disk Management 📀	*: 469.46 GB 0 B	469.46 GB Unallocated	Logical
E Create Volume	Disk 2 (VMware, VMware Virtual S SAS, GPT, 3.00 TB)		
Delete Volume		× B NTES	GPT (Data
S Format Volume	🧏 Format Volume		
🚔 Move/Resize Volume		B NTFS	GPT (Data
Copy Volume	Formating the volume will destroy the data on t	e volume! B Unallocated	GPT
🖉 Wipe Volume	Volume Label:	GB")	
Q Explore Volume	File System: exFAT	B NTFS	Simple
Q Check File System	Cluster Size: Default	B Ext2	Simple
Volume Properties			
E] Change Volume Label	Format Volume Tutorial     OK	Cancel	,
🖭 Change Volume Letter	MBR System Res C:(NTFS) (Unallocated)		
Change Volume Cluster Size	500.00 GB 549 MB (Use 30.0 GB (Use 469.5 GB		
🕼 Convert Dynamic Disk to Basic	Disk 2		
📾 Data Recovery	GPT F:(NTFS) H:(NTFS)	(Unallocated)	
0 Operations Pending	3.00 TB 633.3 GB (Used: 0%) 1288.7 GB (Used: 0%)	1150.0 GB	
v operations remaining	Disk 3 MBR 256.00 GB 128.1 GB,Simple	(Ext2) 8 MB,Simple 127.9 GB	
GPT/Primary Logical Simple	e Spanned 🔲 Striped 🔲 Mirrored 📄 RAID5 📄 Unallo	cated	1 7 8

Step 3. Please click **Apply** button to execute the change.

<u>参</u> Mir	iTool Part	ition Wiza	ard Pro 11											– 🗆 ×
Genera	l View	Disk	Partition	Dyna	imic Disk	Wizard	Help					/	Tin	i Tool
$\checkmark$	4	$\times$			ânun	è						٢	3	
Apply	Undo	Discard	Data Rec	overy	Partition F	Recovery	Disk Benchr	mark Space Ana	lyzer			Bootable I	4edia	Manual
e.	Partition F	Recovery	Wizard	^	Partitio	n		Capacity	Used	Unused	File Syster	n	Тур	e
Dyna	amic Disk	Manage	ment 📀		*:			469.46 GB	0 B	469.46 GB	Unalloci	ated		Logical
±.	Create Vo	lume			<b>\$</b>	isk 2 (VI	Mware, VMw	are Virtual S SAS	5, GPT, 3.00 TB)					
ŵ	Delete Vo	lume						633.32 GB	281.03 MB	633.05 GB	NTES	5		GPT (Data
0	Format V	olume			H:			1288.68 GB		1288.47 GB				GPT (Data
6	Copy Volu	me			*:			1149.99 GB		1149.99 GB				
	Wipe Volu	ime										accu		
	Volume P	1.1			-	ynamic	Disk ("Disk 3	8, VMware, VMwa	are Virtual S SAS	6, MBR, 256.00 G	iB")			_
	Change V				E:			128.08 GB	0 B	128.08 GB	exFA	т		Simple
Ŭ			isk to Basic		*:			8.00 MB	263.00 KB	7.74 MB	Ext2	1		Simple
	Data Reco	very			•									• • •
	erations Format V				MBF 500	۲ ا	System Res 549 MB (Use	C:(NTFS) 30.0 GB (Usi 4	Jnallocated) 69.5 GB					
					Dis GPT 3.00		F:(NTFS) 633.3 GB (Us	sed: 0%) H:(NTF 1288.7			(Unallocate 1150.0 GB	ed)		
				v	MBF 256	2	E:(exFAT) 128.1 GB,Sin	nple		(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB			
GF	T/Primary	/ 🗖 Log	gical 🔲 Si	imple	🔲 Spanr	ied 🔲	Striped 📘	Mirrored 🛛 🔲 R	AID5 🔲 Unallo	ocated			6	) 7 😵



If MiniTool Partition Wizard asks for a restart, please do as prompted.

# 49. Wipe Volume

## 49.1 About Wipe Volume

If the data in a dynamic volume are not useful anymore, users can wipe it to get free space for new data. **Wipe Volume** function of MiniTool Partition Wizard helps to clear away data completely, so malicious recovery of privacy can be prevented.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 49.2 How to Wipe Volume

If you don't know how to wipe volume easily in MiniTool Partition Wizard, please keep on reading the following MiniTool Partition Wizard tutorial.

Step 1. Select the volume that needs to be wiped on the disk map area of the software

interface. And then, choose **Wipe Volume** function from left panel OR choose it from the drop-down list of **Dynamic Disk** menu.

eneral View Disk Partition	Dynamic Disk Wizard Help					Міт	ni Too
16 1	🗄 Create Volume					$\odot$	
	Delete Volume						
pply Undo Discard Data Re	Format Volume	rk Space Analy	/zer			Bootable Medi	ia Man
Wizard 📀	⇒ Move/Resize Volume	Capacity	Used	Unused	File System	Ту	pe
🕼 Migrate OS to SSD/HD Wizard	🖨 Data Recovery	469.46 GB	0 B	469.46 GB	Unallocat	ed 🗖	Logical
left Copy Partition Wizard		e Virtual S SAS,	GPT, 3.00 TB)				
Copy Disk Wizard	Copy Volume	633.32 GB	308.03 MB	633.02 GB	NTFS		GPT (Data
🔒 Partition Recovery Wizard		1288.68 GB	216.23 MB	1288.47 GB	NTES		GPT (Data
Dynamic Disk Management	Q Explore Volume	1149.99 GB	0 B	1149.99 GB	Unallocat		GPT
Create Volume	O Check File System	1				.cu 🖬	GIT
Delete Volume	E Change Volume Label	/Mware, VMwar	e Virtual S SAS	, MBR, 256.00 GB	")		
Format Volume	🐵 Change Volume Letter	128.08 GB	108.01 MB	127.97 GB	NTFS		Simple
🚔 Move/Resize Volume	Change Volume Cluster Size	8.00 MB	263.00 KB	7.74 MB	Ext2		Simple
Copy Volume	Volume Properties						,
🖉 Wipe Volume	•						
Q Explore Volume	Convert Dynamic Disk to Basic		nallocated)				
Q Check File System		50.0 GB (USI) 40	9.5 GD				
Volume Properties	Disk 2		->			D	
E] Change Volume Label	GPT F:(NTFS) 3.00 TB 633.3 GB (Use	H:(NTFS ed: 0%) 1288.7			(Unallocated 1150.0 GB	1)	
🖭 Change Volume Letter				<u>ار</u>			
Change Volume Cluster Size	Disk 3 MBR E:(NTFS)			(Ext2) (	Unallocated)		
Convert Dynamic Disk to Basic	256.00.60	ple		8 MB,Simple			

Step 2. Choose a wiping method according to actual needs (the slowest one brings the best wiping effect). Then, click **OK** to end this step.

- Fill Sectors with Zero Quick
- Fill Sectors with One Quick
- Fill Sectors with Zero & One (Fill sectors with 0 then fill sectors with 1) Slow
- DoD 5220.22-M (Fill sectors with DoD calculation for 3 times) Very Slow
- DoD 5220.28-STD (Fill sectors with DoD calculation for 7 times) Very Slow

eneral View Disk	Partition Dy	ynamic Disk Wizard Help					Min	ni Tool
pply Undo Discard	Data Recove	Partition Recovery Disk Bench	mark Space Ana	lvzer			Bootable Medi	ia Manu
		Partition	Capacity	Used	Unused	File Syster		
Wizard  Migrate OS to SSD/  Copy Partition Wiza		Wipe Volume		or of data on the	volume. Data on	× Unalloca		Logical
Copy Disk Wizard  Partition Recovery V		wiped can not be reco	vered by any dat			NTFS		GPT (Data GPT (Data
Dynamic Disk Manage Create Volume Delete Volume	ment ⊘	Destinati	on Device: (E:)			Unalloca	ated 🔲	GPT
Format Volume Move/Resize Volum Copy Volume	ie	<ul> <li>Fill Sectors with Z</li> <li>Fill Sectors with O</li> <li>Fill Sectors with Z</li> <li>DoD 5220.22-M (3</li> </ul>	ne (Qu ero & One (Slo	ick )		NTF5 Ext2		Simple Simple
Wipe Volume  Explore Volume  Check File System		O DoD 5220.28-STD	(7 passes) ( Ver	ny Slow ) OK	Cancel			
Volume Properties Change Volume Lab Change Volume Leb		Disk 2 GPT 3.00 TB F:(NTFS) 633.3 GB (U	H:(NT) sed: 0%) 1288.7			(Unallocate 1150.0 GB	ed)	
Change Volume Clu Change Volume Clu Convert Dynamic Di	ister Size	Disk 3 MBR 256.00 GB E:(NTFS) 128.1 GB,Sin	nple		(Ext2) 8 MB,Simple	(Unallocated) 127.9 GB		

Step 3. Click **Apply** in the toolbar to execute changes. Note that MiniTool Partition Wizard needs a restart to finish the operation for data security consideration.

	Recovery	Partition Recovery D	isk Benchmark Space Analy	zer			Mini Too
Wizard	$\odot$ $$	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wiz	ard	*:	469.46 GB	0 B	469.46 GB	Unallocated	d 🔲 Logical
Copy Partition Wizard		Disk 2 (VMv	vare, VMware Virtual S SAS,	GPT, 3.00 TB)			
🛱 Copy Disk Wizard			633.32 GB	308.03 MB	633.02 GB	NTES	🗖 GPT (Dat
🕞 Partition Recovery Wizard		н:	1288.68 GB	216.23 MB	1288.47 GB	NTES	GPT (Dat
) Dynamic Disk Management	$\odot$	*.	1268.08 GB	210.25 MB	1149.99 GB	Unallocated	
Create Volume     Delete Volume		Synamic Di	sk ("Disk 3, VMware, VMware	e Virtual S SAS, 0 B	, MBR, 256.00 GB' 128.08 GB	") Unformatte	d 🗆 Simple
Format Volume Copy Volume		*:	8.00 MB	263.00 KB	7.74 MB	Ext2	□ Simple
∠ Copy Volume ✓ Wipe Volume		4					
<ul> <li>Volume Properties</li> </ul>			- 1 1 -				
E Change Volume Letter				allocated)			
Convert Dynamic Disk to Ba	asic	500.00 GB 54	9 MB (Use 30.0 GB (Use 469	0.5 GB			
Data Recovery 1 Operations Pending			(NTFS) 3.3 GB (Used: 0%) 1288.7 G			(Unallocated) 1150.0 GB	
- 1. Wipe Volume: (E:)			(Unformatted) 8.1 GB,Simple		(Ext2) (I 8 MB,Simple 1	Unallocated)	

Step 4. Please wait patiently until MiniTool Partition Wizard finishes.

🏂 MiniTool Partition Wizard Pro 11		– 🗆 ×
General View Disk Partition Dynamic Disk Wizard Help		Mini Tool
Apply Undo Discard Data Recovery Partition Recovery Disk Benchmark Space Analyzer	D	ootable Media Manual
Annly Ponding Operation(c)		
Wizard     Apply Pending Operation(5)       Image: Copy Partition Wizard     Image: Copy Partition Wizard       Image: Copy Partition Wizard     Image: Copy Partition Wizard	File System Unallocated	Type
Copy Disk Wizard Partition Recovery Wizard	NTFS	GPT (Data
Dynamic Disk Management ⊘	Unallocated	GPT
Format Volume     Copy Volume     88%	Unformatted Ext2	Simple Simple
		•
Convert Dynamic Disk to Basic		
	(Unallocated) 1150.0 GB	
L. Wipe Volume: (E:) Disk 3 MBR 256.00 GB 128.1 GB,Simple (Unformatted) 128.1 GB,Simple (Ext2) 8 MB,Simple	allocated) .9 GB	
GPT/Primary Logical Simple Spanned Striped Mirrored RAIDS Unallocated		() ¥ ()

# 50. Move/Resize Volume

#### 50.1 About Move/Resize Volume

**Move/Resize Volume** feature in MiniTool Partition Wizard is much useful for you to change volume size on dynamic disk. With this function you can complete the following 3 operations:

- Shrink dynamic volumes including simple volume, <u>mirrored volume</u>, striped volume, spanned volume and RAID 5 volume to release unallocated space so as to create new volumes or extend another volume.
- Extend a mirrored volume, spanned volume, striped volume, or RAID 5 volume to unallocated space to enlarge volume size (note that Disk Management can only extend simple volume and spanned volume.)
- Move unallocated space to make it adjacent to the volume to be extended.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

#### 50.2 How to Move/Resize Dynamic Volume

Step 1. Run MiniTool Partition Wizard to get the main interface. Then, select the volume that needs to change location/volume size and choose **Move/Resize Volume** from the left action panel or from right-click menu.

neral View Disk Parti	tion Dyna	amic Disk Wizard	Help					Mil	ni Tod
$/ \leftrightarrow \times$			<b>.</b>					<u></u>	
ply Undo Discard Da	ta Recovery	Partition Recover	Disk Benchr	nark Space An	alyzer		A	Data Recovery	Mar
Vizard	Ô	Partition		Capacity	Used	Unuse		Create Volume	e
Migrate OS to SSD/HD W	/izard	*:System Re	served	549.00 M	IB 399.32	MB 149.			Primary
🕒 Copy Partition Wizard		C:		30.00 G	B 16.34	GB 13.	Ŵ	Delete Volume	Primary
Copy Disk Wizard		*:		469.46 G	в	0 B 469.	0	Format Volume	.ogical
Partition Recovery Wizar	d	🥌 Dynamie	: <b>Disk</b> ("Disk 2	, VMware, VMv	vare Virtual S	SAS, GPT, 3.0		Move/Resize Volume	SAS, M
) Ynamic Disk Management		*.						Copy Volume	<u> </u>
王 Create Volume				8.00 M				Wipe Volume	Simple
Delete Volume		E:New Volur	1e	25.60 G			Q	Explore Volume	Mirrored
Format Volume		H:		1288.68 G			Q	Check File System	Simple
Move/Resize Volume		F:New Volur	ie	17.58 G	B 55.34	MB 17.		Volume Properties	Simple
Copy Volume	-	•							
Wipe Volume		Disk 1						Change Volume Label	
Q Explore Volume		MBR 500.00 GB			(Unallocated)		먵	Change Volume Letter	
O Check File System		500.00 GB	549 MB (Use	30.0 GB (Usi)	469.5 GB			Change Volume Cluster Size	
Volume Properties		Disk 2					Ð	Convert Dynamic Disk to Basic	
E]) Change Volume Label		GPT 3.00 TB		F:New Volur 17.6 GB,Sim		1:(NTFS) .288.7 GB,Sim	ple	(Unallocated) 1149.9 GB	(Other) 127 MB
🗄 Change Volume Letter		[				Y	-	^~/	
Change Volume Cluster S	Size	Disk 3 MBR	(Unallocated			(Ext2)		E:New Volur (Unallocated)	
🕼 Convert Dynamic Disk to	Basic	256.00 GB	128.1 GB					25.6 GB,Mirr 102.3 GB	

Step 2. To shrink a volume, just drag the border of the rectangle bar leftwards. To enlarge a volume, drag the handle rightwards. Alternatively, users can type exact volume size in MB, GB, or TB to edit volume size.

neral View Disk Partition	Dynamic Disk Wizard Help				Mini Too
Ply Undo Discard Data Re	covery Partition Recovery Disk Benchm	nark Space Analyzer			Bootable Media Manu
Vizard 🤇	Partition	Capacity U	sed Unused	File System	Туре
Migrate OS to SSD/HD Wizard	🐞 Move/Resize Volume			× NTFS	Primary
Copy Partition Wizard				NTFS	Primary
Copy Disk Wizard	Enter the new partition s	ize and specify the locat	on of the selected volume	. Unallocate	d 🔲 Logical
Recovery Wizard	Using Enhanced Data	Protecting Mode		Murro M	Awara Virtual C.CAC. MI
	Size And Location			viviware, vi	Mware Virtual S SAS, ME
)ynamic Disk Management 📀	Shrink Vo	lume	Extend Volume	Ext2	Simple
+ Create Volume	1288.68 GB (U	sed:216.00 MB)	<b>—</b>	NTFS	Mirrored
Delete Volume	Unallocated Space Before	: 0.58	<b>ТВ</b> ▼	NTES	Simple
Format Volume	Volume Size:	1.26	≑ тв 👻	NTFS	Simple
Move/Resize Volume	Unallocated Space After:	1.35	≑ тв 👻		
Copy Volume			MB		1
Wipe Volume	🛕 It's recommended to backup you	ır data before moving or	resizing the GB		
Q Explore Volume					
Check File System	Resize/Move Volume Tutorial		OK Cano	cel	Ŷ.
Volume Properties	Disk 2 GPT E:New Volut	F:New Volur (Unalloca	ter H:(NTFS)	(Unallocated	i) (Other)
E] Change Volume Label	Linew voidi	17.6 GB,Sim 590.2 GB	1288.7 GB,Simple	1149.9 GB	1) (Other) 127 MB
Change Volume Letter					
Change Volume Cluster Size	Disk 3 MBR (Unallocated)		(Ext2) E:	New Volur (Unalloca	ated)
🗊 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB			.6 GB,Mirt 102.3 GB	

To move volume location, please drag the whole handle or manually define unallocated space in MB, GB, or TB before or after the volume. After getting needed volume size and location, users need to click **OK** to continue.

<u> </u> Mi	niTool Partition Wizar	rd Pro 11								– 🗆 ×
Gener	al View Disk	Partition	Dynamic Disk V	Nizard Help					Mi	ni Tool
Apply	Undo Discard	Data Reco		ecovery Disk Benchm	nark Space An	<u> </u>			Bootable Mer	dia Manual
Wiz	ard	$\bigcirc$	Partition	1	Capacity	Used	Unused	File Syste	em T	уре
6	Migrate OS to SSD/H	0	🯄 Move/Resiz	e Volume				× NTE	-s 🗖	Primary
Ġ	Copy Partition Wizar	ď						NTE	-s 🗖	Primary
Ð	Copy Disk Wizard		Ente	er the new partition s	ize and specify	the location of t	he selected volum	ne. Unallo	cated 🔲	Logical
e.	Partition Recovery W	/izard	- <u>→</u>	Using Enhanced Data	Protecting Mod	е		VMware	e, VMware Virtua	IS SAS MRF
Dur	amic Disk Manager	nent 🔿	Size And Loo	cation		-				
E Dyn	Create Volume	iient 💮	Move Volume		-		Move Volume	Ext		Simple
1 1	Delete Volume			1288.68 GB (U	sed:216.00 MB			NTE	S	Mirrored
0	Format Volume		Unall	located Space Before	: 0.58		茾 ТВ 🔻	NT	S 🗆	Simple
1	Move/Resize Volume		Volur	me Size:	1.26		茾 ТВ 🔻	NTE	S	Simple
- -	Copy Volume	-	Unall	located Space After:	1.35		≑ тв 👻			
	Wipe Volume		A This recomm	nended to backup you	ur data boforo r	noving or recizir	MB GB			)
Q	Explore Volume			lended to backup you		noving of resizi	TB			
Q	Check File System		Resize/Mo	ove Volume Tutorial			OK Car	ncel		
	Volume Properties		Disk	2						
Ē	Change Volume Lab	el	GPT 3.00		F:New Volur 17.6 GB,Sim		(NTFS)	(Unalloc 1149.9		(Other) 127 MB
PE	Change Volume Lett			25.0 GB,MIIT)	[17.0 GB,SIM][	590.2 GB 12	88.7 GB,Simple	1149.9	38	
	Change Volume Clus		Disk	-						
÷Q.	Convert Dynamic Dis		MBR 256.0	(Unallocated) 00 GB 128.1 GB				New Volur (Una 5.6 GB,Mirr 102.	llocated) 3 GB	
	PT/Primary 🔲 Logi		mple 🔲 Spanne	ed 🔲 Striped 🔲	Mirrored 🔲	RAID5 🔲 Una	llocated			() ¥ (8)

Step 3. Click **Apply** button at the top to perform changes.

eneral View Disk Partition Dyr	namic Disk Wizard Help					Mini Too
pply Undo Discard Data Recover	ry Partition Recovery Disk Ben		zer		Воо	table Media Man
Wizard 🔿	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	*:System Reserved	549.00 MB	399.32 MB	149.68 MB	NTFS	Primary
Copy Partition Wizard	C:	30.00 GB	16.34 GB	13.67 GB	NTFS	Primary
Copy Disk Wizard	*:	469.46 GB	0 B	469.46 GB	Unallocated	Logical
Partition Recovery Wizard	<b>Dynamic Disk</b> ("Dis	k 2, VMware, VMwar	e Virtual S SAS	, GPT, 3.00 TB", '	"Disk 3, VMware, VMwa	re Virtual S SAS, MI
Dynamic Disk Management 📀	*:	8.00 MB	263.00 KB	7.74 MB	Ext2	Simple
E Create Volume	E:New Volume	25.60 GB	67.88 MB	25.53 GB	NTFS	Mirrored
Delete Volume	H:	1288.68 GB	216.23 MB	1288.47 GB	NTFS	Simple
Format Volume	F:New Volume	17.58 GB	55.34 MB	17.52 GB	NTFS	Simple
E Move/Resize Volume						
Copy Volume	•					,
	Disk 1					
Volume Properties	MBR System Re 500.00 GB 549 MB (I	es C:(NTFS) (Un se 30.0 GB (Us 469	allocated)			
E]] Change Volume Label		<u>, , , , , , , , , , , , , , , , , , , </u>				
🖷 Change Volume Letter	Disk 2		- II d)		(usella	
Change Volume Cluster Size	Linch Vu	ur F:New Volur (Ur irr 17.6 GB,Sim 972	allocated) 2.5 GB	H:(NTFS) 1288.7 GB,Sir	mple (Unallo	
🕼 Convert Dynamic Disk to Basic			Y	)()()	) (	
📾 Data Recovery	Disk 3 MBR (Unallocat	ed)		(Ext2) E:N	lew Volur (Unallocated	)
1 Operations Pending	256.00 GB 128.1 GB				6 GB,Mirr 102.3 GB	

Tip: Most operations on dynamic disk will require a reboot, and users are expected to do as prompted. Then, MiniTool Partition Wizard will perform all changes in boot mode, which is much safer.

# 51. Copy Volume

## 51.1 About Copy Volume

Data saved in dynamic volumes are not absolutely safe. For example, it may get lost due to mistaken deletion/formatting, virus attack, and hardware damage. Thus, it is very necessary to make a backup for important files.

Nevertheless, copying files one by one will cost much time especially when there are so many files to backup. Fortunately, **Copy Volume** feature in MiniTool Partition Wizard can <u>clone</u> the entire dynamic volume effectively, saving a lot of time. And the copy can be used directly as the source.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

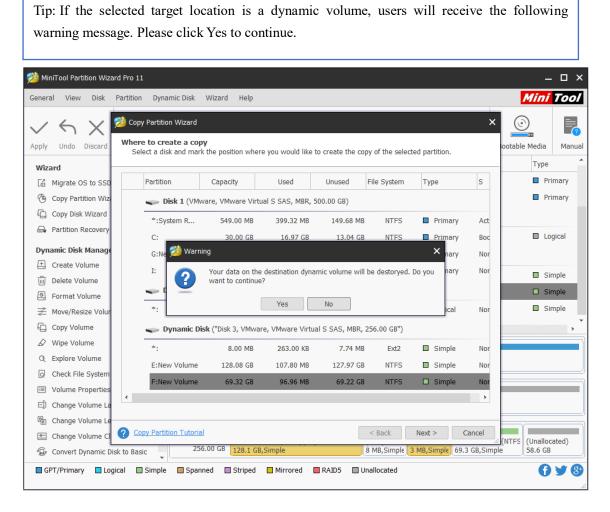
## 51.2 How to Copy Volume

Step 1. Launch MiniTool Partition Wizard to get its main interface. Then, select the volume which needs copying and click **Copy Volume** feature from the left pane or from right-click menu.

rneral View Disk Partition Dyr $\checkmark \leftarrow \checkmark \times$	namic Disk Wizard Help					Mini	
oply Undo Discard Data Recover	ry Partition Recovery Disk Bench	· · ·				Bootable Media	Man
Wizard 📀	Partition	Capacity	Used	Unused	File System	туре	
Migrate OS to SSD/HD Wizard	G:New Volume	100.00 GB	106.92 MB	99.90 GB	NTFS	Pr	imary
Copy Partition Wizard	I:	36	ita Recovery		NTFS	Pr	imary
Copy Disk Wizard	🛶 Disk 2 (VMware, VMw	are Virtua					
Partition Recovery Wizard	*:	207	eate Volume		Unalloca	ted 🔲 Lo	gical
Oynamic Disk Management 🔿		₩ De	elete Volume				9.000
+ Create Volume	<b>Dynamic Disk</b> ("Disk :	3, VMware 🚇 Fo	rmat Volume		")		
Delete Volume	*:	ł ≇ Mo	ove/Resize Volum	e	Ext2	Si	mple
S Format Volume	E:New Volume	12 🔓 Ca	py Volume		NTFS	🗆 Si	mple
Move/Resize Volume	F:New Volume	6 🖉 W	ipe Volume		NTFS	Si	mple
Copy Volume	•	Q Fx	plore Volume				
🖉 Wipe Volume	Disk 1		eck File System				
Q Explore Volume	MBR System Res	C:(NTF:			~		
Check File System	500.00 GB 549 MB (Use	<u></u>	lume Properties		%)		
Volume Properties	Disk 2		iange Volume Lab	pel			
E]) Change Volume Label	MBR (Unallocated 3.00 TB 3072.0 GB	l) 🖺 Ch	iange Volume Let	ter			
🗈 Change Volume Letter		e Ch	ange Volume Clu	ister Size			
Change Volume Cluster Size	Disk 3 MBR E:New Volum		invert Dynamic Di	sk to Basic	olur F:New Volu	ime(NTFS (Unalloo	(bote
🕞 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Sir		8 MB	,Simple <mark>  3 MB,</mark> S			

Step 2. Select a volume on dynamic disk or unallocated space on basic disk as the target location to save the copy of the source volume and click **Next**.

Sener	niTool Partition Wiza al View Disk	Partition		ic Disk	Wizard Help						<u>_</u>	- Iini	□ > Tool
Apply	← × Undo Discard	Where	y Partition e <b>to crea</b> lect a disk	te a co	<b>Py</b> 'k the position when	re you would like	to create the co	py of the select	ed partition.	×	c 💽	■ Media	Manua
Wiz	ard										_	Туре	
6 6	Migrate OS to SSD Copy Partition Wize		Disk 2 MBR 3.00 TB		llocated) 0 GB							<ul><li>Print</li><li>Print</li></ul>	1
Ð	Copy Disk Wizard		Partition		Capacity	Used	Unused	File System	Туре				
æ	Partition Recovery							File System	туре			🔲 Logi	ical
Dyn	amic Disk Manage		🥌 Dis	<b>k 1</b> (VM	ware, VMware Virt	ual S SAS, MBR,	500.00 GB)						
±.	Create Volume		*:Syste	em R	549.00 MB	399.32 MB	149.68 MB	NTFS	Primary	+			
ŵ	Delete Volume		C:		30.00 GB	16.97 GB	13.04 GB	NTFS	Primary	E		Sim	ple
0	Format Volume		G:New	Volu	100.00 GB	106.92 MB	99.90 GB	NTFS	Primary	1		🗆 Sim	ple
	Move/Resize Volur		I:		369.46 GB	133.50 MB	369.33 GB	NTFS	Primary	1		Sim	ple
Ð	Copy Volume		🥌 Dis	k 2 (VM	ware, VMware Virt	ual S SAS, MBR,	3.00 TB)						•
$\square$	Wipe Volume		*:		3072.00 GB	0 B	3072.00 GB	Unallocated	Logical	- H			
Q	Explore Volume												
Q	Check File System		S Dy	namic D	isk ("Disk 3, VMwa	ire, VMware Virt	ual S SAS, MBR,	256.00 GB")					
	Volume Properties		*:		8.00 MB	263.00 KB	7.74 MB	Ext2	Simple				
ED	Change Volume La	•								,			
(PE	Change Volume Le										-		
-0	Change Volume Cl	? 🖸	<u>py Partitio</u>	n Tutoria	al			< Back	Next >	Cancel	(NTFS (	'Unalloca	ted)
<b>D</b>	Convert Dynamic Di	sk to Bas	ic	25	6.00 GB 128.1 GE	3,Simple		8 MB,Simple	B MB,Simple 69	.3 GB,Sim		58.6 GB	-/
G	PT/Primary 🔲 Log	ical 🗖	] Simple	🔲 Spar	nned 🔲 Striped	Mirrored	🔲 RAID5 🔲 U	nallocated				6	<b>y</b> (



Step 3. Resize volume by changing the length of volume handle and move volume location by changing the position of the entire handle. Alternatively, users can type exact volume size in MB. Then, click **Finish** button.

MiniTool Partition V	Vizard Pro 11	– 🗆 ×
General View Dis	k Partition Dynamic Disk Wizard Help	Mini Tool
Apply Undo Discar	Copy Partition Wizard     X       Edit Partition     Please enter the new partition size and specify the location of the selected partition:	ootable Media
Wizard		Туре
🕼 Migrate OS to S	SD Size & Location: Copy the partition with resize	Primary
🕒 Copy Partition W	/iz () 128.06 ()	Primary
Copy Disk Wizar	d	
🔒 Partition Recove		Logical
Dynamic Disk Mana	Partition Size: 131153.00	Logical
E Create Volume	Unallocate Space After: 1965998.88	
Delete Volume	Create As: Logical	Simple
Format Volume		□ Simple
🚔 Move/Resize Vo	lur	Simple
Copy Volume		, <sup>*</sup>
🖉 Wipe Volume		
Q Explore Volume		
Q Check File Syste	m	)
Volume Properti	ies in the second s	
E]) Change Volume	La	
🖭 Change Volume		
Change Volume		(NTFS (Unallocated)
🕞 Convert Dynami	c Disk to Basic 256.00 GB 128.1 GB,Simple 8 MB,Simple 3 MB,Simple 69.3 GB,Simple	e 58.6 GB
GPT/Primary	Logical 🔲 Simple 🛄 Spanned 🛄 Striped 🛄 Mirrored 🥅 RAID5 🔲 Unallocated	<b>8 ¥ ()</b>

Step 4: Click **Apply** button to apply all changes.

yply Undo Discard Data Recover	y Partition Recovery Disk Benc		zer		Boo	table Media Ma
Wizard 📀 🕯	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	I:	369.46 GB	133.50 MB	369.33 GB	NTFS	Primary
🕙 Copy Partition Wizard	Disk 2 (VMware, VM	Iware Virtual S SAS,	MBR, 3.00 TB)			
Copy Disk Wizard	*:New Volume	128.08 GB	107.80 MB	127.97 GB	NTES	
🕞 Partition Recovery Wizard	*.	2943.92 GB	107.00 MB	2943.92 GB	Unallocated	
<ul> <li>Delete Volume</li> <li>Format Volume</li> <li>Copy Volume</li> </ul>	*: E:New Volume F:New Volume	8.00 MB 128.08 GB 69.32 GB	263.00 KB 107.80 MB 96.96 MB	7.74 MB 127.97 GB 69.22 GB	Ext2 NTFS NTFS	<ul><li>Simple</li><li>Simple</li><li>Simple</li></ul>
Wipe Volume Volume Properties	Disk 1		)(			
Change Volume Letter     Convert Dynamic Disk to Basic	MBR System Re	s C:(NTFS) S 30.0 GB (Us) 100		:(NTFS) 869.5 GB (Used: 0%	)	
Data Recovery		ne (Unallocated) 2943.9 GB				
- 1. Copy Volume: (New Volume	Disk 3 MBR E:New Vol 256.00 GB 128.1 GB,S	ume(NTFS)(#2)	(Ext2		lur F:New Volume(N ple 69.3 GB,Simple	TFS (Unallocated) 58.6 GB

## 52. Change Volume Cluster Size

## 52.1 About Change Volume Cluster Size

As is known to all, <u>cluster</u> is the smallest unit to save and manage files on disk in Windows operating systems.

One cluster can only hold 1 file even if it is only 1 byte. The volume used for saving small files should be configured with small clusters, which can improve disk space use ratio. The volume used for saving large files should be appointed with large clusters, which can optimize data read-write speed largely.

Well then, how to change cluster size of a certain volume reasonably? **Change Volume Cluster Size** feature of MiniTool Partition Wizard can help complete this operation in simple operations and without data loss.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 52.2 How to Change Volume Cluster Size

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. Select or right-click the volume whose cluster size needs changing and choose **Change Volume Cluster Size** from the left panel or from right-click menu.

neral	l View Disk Pa	artition Dynar	nic Disk Wizard	Help					МП	ni Too
/	Υ		inne						<u></u>	
oply	Undo Discard	Data Recover	y Partition Recov	ery Disk Benc	hmark Space	Analyzer			Bootable Media	a Man
Wizaı	rd		Partition		Capacity	Used	Unused	File System	Туре	
6	Migrate OS to SSD/HD	Wizard	🥌 Disk 1 (\	/Mware, VMwa	are Virtual S S	AS, MBR, 500.00	GB)			
0	Copy Partition Wizard		*:System Re	served	549.00 M	B 374.37 MB	174.63 MB	NTFS	P	rimary
P (	Copy Disk Wizard		C:		59.46 G	B 21.92 GB	37.54 GB	NTFS	Pr	rimary
)yna	mic Disk Manageme	ent 🔿	F:		108.43 G	B 107.35 MB	108.33 GB	NTFS	Pr	rimary
±. (	Create Volume		E:		134.35 G	B 108.23 MB	134.25 GB	NTFS	🗖 Lo	ogical
<u>î</u> (	Delete Volume		J:		58.85 G	B 96.84 MB	58.75 GB	NTFS		ogical
©, F	Format Volume		I:		138.36 G	B 108.28 MB	138.25 GB	NTFS	🗖 Le	ogical
÷ N	Move/Resize Volume		- Dynamie	: <b>Disk</b> ("Disk 2	. VMware, VM	ware Virtual S SA	AS, MBR, 256.00	GB")		
-	Copy Volume									
Ø 1	Wipe Volume		G:		112.83 G			NTFS	□ S	
QE	Explore Volume		К:		68.53 G	B 97.12 MB	68.44 GB	NTFS	□ s	imple
ର (	Check File System		H:		74.48 G	B 97.34 MB	74.39 GB	NTFS	S S	imple
Ξ ۱	Volume Properties		(							
=) (	Change Volume Label		Disk 1							
• •	Change Volume Letter	·	MBR 500.00 GB	System Res		F:(NTFS)	E:(NTFS) 0 134.4 GB (Use	J:(NTFS)	I:(NTFS)	lood: 0%
• (	Change Volume Cluste	er Size		[J49 MB (USt)	[ <u>39.3 GB (USI)</u> ]	100.4 GB (USEU.	U_134.4 GB (05	eu. 0%) <u>1</u> 38.8 GB (	<u>,051)</u> 130.4 GB (C	JSeu. 076
<u>,</u>	Convert Dynamic Disk	to Basic	Disk 2						i i i i i i i i i i i i i i i i i i i	
₽ 0	Data Recovery		MBR 256.00 GB	G:(NTFS) 112.8 GB,Sim	ple		:(NTFS) 8.5 GB,Simple	H:(NTFS) 74.5 GB,Sim		(Unalloca 156 MB

Step 3.Choose a reasonable cluster size from the drop-down list and click **Yes** to confirm the operation.

麶 MiniTo	ool Partition Wizard	Pro 11										– 🗆 ×
General	View Disk Pa	rtition Dyna	amic Disk Wizard	Help							Mi	ni Tool
Apply	G X Undo Discard	Data Recove	ery Partition Recovery	Disk Bend	hmark Space	Analyzer				В	ootable Med	lia Manual
Wizard	1		Partition		Capacity	Used		Unused	Fil	e System	Тур	e
🔓 Mig	grate OS to SSD/HD	Wizard	🛶 Disk 1 (VM	ware, VMwa	are Virtual S S	AS, MBR, 500	.00 GE	B)				
@ Co	py Partition Wizard		*:System Rese	rved	549.00 M	3 374.37	MB	174.63 MB		NTFS		Primary
E Co	opy Disk Wizard		C:		59.46 G	3 21.92	GB	37.54 GB	_	NTFS		Primary
Dynam	ic Disk Manageme	nt 🔿 🚺	🟄 Change Cluster Si:	ze					×	NTFS		Primary
🕂 Cre	eate Volume	_ F								NTFS		Logical
🔟 De	elete Volume				-			r volume "(K:)		NTFS		Logical
Sec. Fo	rmat Volume	- 1			8 sectors, 4 ective usage of		/tes).	Smaller cluster	rs	NTFS		Logical
≓ Mo	ove/Resize Volume						-					
E Co	opy Volume		Please ent	er new clus	ter size in sect	ors:	8	•	.  -			
🖉 Wi	ipe Volume		Change Cluster S	Size Tutoria	<u>l</u>		2			NTFS		Simple
Q Exp	plore Volume	L					8			NTFS		Simple
Q Ch	neck File System		H:		74.48 G	97.34	32			NTFS		Simple
💷 Vo	olume Properties		•				64 128					•
E]] Ch	nange Volume Label		Disk 1						,			
또 Ch	nange Volume Letter				C:(NTFS) 59.5 GB (Us)	F:(NTFS) 108.4 GB (Us	od• 0	E:(NTFS) 134.4 GB (Use	d• 0%)	J:(NTFS) 58.8 GB (Us	I:(NTFS)	(Used: 0%)
Ch	ange Volume Cluste	r Size		19 110 (030)	[ <b>33.3 GD</b> ( <b>0</b> 3-)]	100.4 00 (03	eu. c	134.4 00 (036	u. 070)	<u></u>	<u>д</u> 150.4 GD	(03ed. 070)
🕀 Co	onvert Dynamic Disk	to Basic	Disk 2									
📾 Da	ata Recovery			:(NTFS) 12.8 GB,Sim	ple			NTFS) 5 GB,Simple		:(NTFS) 4.5 GB,Simple		(Unallocated 156 MB
GPT/I	'Primary 🔲 Logica	I 🔲 Simple	Spanned S	triped 🔲	Mirrored 🔲	RAID5 🔲 (	Unallo	cated				() ¥ ()

Step 4. Click **Apply** button on the toolbar to apply this change.

nera	al View Disk Partition [	Dynamic	Disk Wizard H	Help						ini Tod
/	5 X -	•							٢	
oply	Undo Discard Data Re	covery	Partition Recovery	Disk Benc	- hmark Space	Analyzer			Bootable Me	edia Man
E1	Copy Disk wizaru		Partition		Capacity	Used	Unused	File System	Ту	/pe
<u> </u>	amic Disk Management		🛶 Disk 1 (VMw	vare, VMwa	are Virtual S S	AS, MBR, 500.00	) GB)			
<u></u> 一	Delete Volume		*:System Reser	ved	549.00 M	B 374.37 MI	B 174.63 MB	NTFS		Primary
0	Format Volume		C:		59.46 G	B 21.92 G	B 37.54 GB	NTFS		Primary
2	Move/Resize Volume		F:		108.43 G	B 107.35 MI	B 108.33 GB	NTFS		Primary
Ð	Copy Volume		E:		134.35 G	B 108.23 MI	B 134.25 GB	NTFS		Logical
D	Wipe Volume		J:		58.85 G	B 96.84 MI	B 58.75 GB	NTFS		Logical
Q	Explore Volume		I:		138.36 G	B 108.28 MI	B 138.25 GB	NTFS		Logical
Q	Check File System		Service Dynamic Dis	<b>sk</b> ("Disk 2	, VMware, VM	ware Virtual S S	AS, MBR, 256.00	GB")		
	Volume Properties		G:		112.83 G			NTFS		Simple
E])	Change Volume Label									
Ē	Change Volume Letter		к:		68.53 G			NTFS		Simple
-0	Change Volume Cluster Size		H:		74.48 G	B 97.34 MI	B 74.39 GB	NTFS		Simple
9	Convert Dynamic Disk to Basic	•								
L Op	Data Recovery				C:(NTFS) 59.5 GB (Usi	F:(NTFS) 108.4 GB (Used	E:(NTFS) : 0 134.4 GB (Us	ied: 0%) 58.8 GB	) (Usi 138.4 GE	
1.	. Change Volume Cluster Siz			(NTFS) 2.8 GB,Sim	ple		K:(NTFS) 68.5 GB,Simple	H:(NTFS) 74.5 GB,Sim	nple	(Unalloca 156 MB

# 53. Change Volume Letter

# 53.1 About Change Volume Letter

Volume letter is the symbol of disk storage device. It is identified by one of the 26 English letters plus a colon. Due to historical reason, early PC usually has two floppy drivers. Therefore, the two volume letters A: and B: are used to stand for floppy disk drivers while hard disk volume letters start from C: to Z:

Dynamic disk also has volume letters and each volume has only one letter. Users can change volume letter as they want.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

### 53.2 How to Change Volume Letter

Warning: Be careful when changing system volume letter for doing this on system partition may cause the computer unbootable.

Step 1. Launch MiniTool Partition Wizard to get its main interface.

Step 2. Click the target volume, and select the **Change Volume Letter** from the action panel OR select this feature from the context menu.

< < <	ynamic Disk Wizard Help		/zer		Bc	Mini Too
Vizard 📀	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	I:	369.46 GB	133.50 MB	369.33 GB	NTFS	Primary
Copy Partition Wizard	Disk 2 (VMware, VMv	vare Virtual S SA	Data Recove	ry		
Copy Disk Wizard	*:New Volume	128.08 G	Create Volur	ne	NTFS	Logical
Partition Recovery Wizard	*.		Delete Volun	ne	Unallocated	
) Dynamic Disk Management 🔿		f	의 Format Volu	me	Unanocated	
크 Create Volume	<b>Dynamic Disk</b> ("Disk		≧ Move/Resize	Volume		
Delete Volume	*:	8.00 M	Copy Volume		Ext2	Simple
Server Format Volume	E:New Volume	128.08 G			NTFS	Simple
Move/Resize Volume	F:New Volume	69.32 G	Wipe Volume		NTFS	Simple
Copy Volume	•		Q Explore Volu	me		
Wipe Volume	Disk 1		Check File S	ystem		
Q Explore Volume	MBR System Res		Volume Prop	oerties		
Check File System	500.00 GB 549 MB (Us	: 30.0 GB (Us)	🖞 Change Volu	ime Label		
Volume Properties	Disk 2		🖥 Change Volu	ime Letter		
E]] Change Volume Label		(Unallocated)	🗉 Change Volu	ime Cluster Size		
🗄 Change Volume Letter			Convert Dyna	amic Disk to Basic		NC
Change Volume Cluster Size	Disk 3 MBR E:New Volu	me(NTFS)(#2)	(Ext2		ur F:New Volume(	NTFS (Unallocated)
🕼 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Si			3,Simple 3 MB,Simp		58.6 GB

Step 3. Select a new drive letter and click **OK** button to go back to the main interface. It is worth mentioning that if **None** is selected, the target partition will disappear from File Explorer.

🚧 MiniTool Partition Wizard Pro 11						– 🗆 ×
General View Disk Partition Dyn	amic Disk Wizard Help					Mini Tool
					0	table Media
Apply Undo Discard Data Recover	y Partition Recovery Disk Benchr					
Wizard 📀	Partition	Capacity	Used	Unused	File System	Туре
📓 Migrate OS to SSD/HD Wizard	I:	369.46 GB	133.50 MB	369.33 GB	NTFS	Primary
Copy Partition Wizard	Disk 2 (VMware, VMw	are Virtual S SAS,	MBR, 3.00 TB)			
Copy Disk Wizard	*:New Volume	128.08 GB	107.82 MB	127.97 GB	NTFS	Logical
🔒 Partition Recovery Wizard	*: o Change Drive Lette	or.		X 2 GB	Unallocated	Logical
Dynamic Disk Management 🔗						
E Create Volume	Change Letter			.00 GE	B")	
Delete Volume	*: Current Driv	e Letter: E:		4 MB	Ext2	Simple
Format Volume	E: New Driv	e Letter: None		→ 98 GB	NTFS	Simple
⇒ Move/Resize Volume	F:I 2 Change Letter T	None H:		22 GB	NTFS	Simple
Copy Volume	Change Letter 1	K:				• •
	Disk 1	L: M:				
Q Explore Volume	MBR System Res	C:(NTFS N:		FS)		
Q Check File System	500.00 GB 549 MB (Use	30.0 GB O: P:		5 GB (Used: )	0%)	
Volume Properties	Disk 2	Q:		v		
E]) Change Volume Label	MBR New Volume 3.00 TB 128.1 GB (U	(Unallocated) 2943.9 GB				
🖷 Change Volume Letter		n				
Change Volume Cluster Size	Disk 3	ne(NTFS)(#2)	(Ext)	2) E:New	Volur F:New Volume(NT	TFS (Unallocated)
🕼 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Sir				imple 69.3 GB,Simple	58.6 GB
GPT/Primary Cogical Simple	e 🔲 Spanned 🔲 Striped 📃	Mirrored 🔲 RA	D5 🔲 Unallo	cated		() ¥ ()

Step 4. Finally, click **Apply** to bring this change into effect.

pply Undo Disca	rd Data Recover	y Partition Recov	ery Disk Benchr	mark Space Analy	zer		Bi	ootable Media	Mar
Wizard	Ô	Partition		Capacity	Used	Unused	File System	Туре	
🕼 Migrate OS to S	SD/HD Wizard	I:		369.46 GB	133.50 MB	369.33 GB	NTFS	Prima	ary
Copy Partition V	Vizard	🥌 Disk 2	(VMware, VMw	are Virtual S SAS,	MBR, 3.00 TB)				
Copy Disk Wizar	rd	*:New Vo		128.08 GB	107.82 MB	127.97 GB	NTFS	Logic	al
Partition Recove	ery Wizard	*.	iunie	2943.92 GB	107.82 MB	2943.92 GB	Unallocated		
Delete Volume Format Volume Move/Resize Vo Copy Volume		K:New Vo		<b>128.08 GB</b> 69.32 GB	105.86 MB 96.96 MB	127.98 GB 69.22 GB	NTFS	□ Simp □ Simp	
Wipe Volume C Explore Volume C Check File System		Disk 1 MBR 500.00 G	System Res 549 MB (Use	C:(NTFS) 30.0 GB (Us) 100		:(NTFS) 69.5 GB (Used: 0%	6)		
<ul> <li>Volume Propert</li> <li>Change Volume</li> </ul>	ies	Disk 2 MBR 3.00 TB	New Volume 128.1 GB (U	(Unallocated) 2943.9 GB					
Change Volume		Disk 3 MBR 256.00 G		ne(NTFS)(#2)	(Ext2		F:New Volume		ed)

# 54. Change Volume Label

### 54.1 About Change Volume Label

By default, <u>disk partitions</u> are displayed as Local Disk C: Local Disk D: etc. At this moment, disk partitions have no label. But users can label every partition to make them easy to distinguish, such as labeling partition C: as System C:

The function **Change Volume Label** of MiniTool Partition Wizard gives each volume a unique label to facilitate management and memorizing.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 54.2 How to Change Volume Label

Step 1. Select the target volume and click **Change Volume Labe**l from the action panel OR right click the target volume to select this feature.

🖄 MiniTool Partition Wiza	rd Pro 11									- 🗆 ×
General View Disk	Partition Dyn	namic Disk Wizar	d Help						Min	Tool
Apply Undo Discard	Data Recovery	y Partition Recover	ry Disk Benchr		Anal	yzer			Bootable Media	Manual
Wizard	Ô	Partition		Capacity		Used	Unused	File Syster	n Typ	•
🕼 Migrate OS to SSD/	HD Wizard	I:		369.4		Data Recovery		NTFS	5 🗖 I	Primary
🙆 Copy Partition Wiza	rd	🥌 Disk 2	(VMware, VMw	are Virtual S		,				
Copy Disk Wizard		*:New Vol	ime	128.0	_	Create Volume		NTES	s 🗖 I	ogical
🔒 Partition Recovery \	Nizard	*.		2943.9		Delete Volume		Unalloca		.ogical
Dynamic Disk Manage	ment 📀		In pink (lipink a		_	Format Volume				- g. e al
+ Create Volume		🥌 Dynan	iic Disk ("Disk 3	, VMware, V	ţ\$	Move/Resize Vo	olume			
Delete Volume		*:		8.0	Ð	Copy Volume		Ext2		Simple
Format Volume		K:New Vol	ime	128.0	D	Wipe Volume		NTES	5 🗆 5	Simple
ጅ Move/Resize Volum	e	F:New Vol	ıme	69.3	Q	Explore Volume		NTES	5 🔳 9	Simple
Copy Volume		•			Q	Check File Syste	em			• •
🖉 Wipe Volume		Disk 1				Volume Propert				
Q Explore Volume		MBR 500.00 GE	System Res 549 MB (Use							
Q Check File System			- 249 MB (USE)	30.0 GB (0		Change Volume				
Volume Properties		Disk 2			Ц.	Change Volume	e Letter			
E) Change Volume Lab	pel	MBR 3.00 TB	New Volume 128.1 GB (U		- <b>Q</b> 	Change Volume	Cluster Size			
🖷 Change Volume Let	ter			-	¢	Convert Dynami	ic Disk to Basic	N	)(	
📰 Change Volume Clu	ister Size	Disk 3 MBR	K:New Volun	ne(NTFS)(#2	)	(Ext)	2) K:New	Volur F:New Vol	ume(NTFS (Unall	ocated)
🐵 Convert Dynamic Di	sk to Basic	256.00 GE			<i>.</i>			Simple 69.3 GB,Si		· · · ·
GPT/Primary 🔲 Log	jical 🔲 Simple	e 🔲 Spanned	🔲 Striped 🛛 🗖	Mirrored	R	AID5 🔲 Unallo	ocated		(	) <b>y</b> 😵
Change volume label.										

ener	al View Disk F	Partition Dy	mamic Dis	k Wizard	Help						M	lini Tod
<b>_</b> pply	Undo Discard	Data Recove	ery Partit	ion Recovery	Disk Benchm	nark Space An	Ĭ				Bootable M	ledia Mar
Wiza	ard	$\bigcirc$	^ Pa	rtition		Capacity	Used	Unuse	ł	File System		Туре
Cá	Migrate OS to SSD/H	0		[:		369.46 G	B 133.50 I	MB 369.	33 GB	NTFS		Primary
A.	Copy Partition Wizard			Dick 2 (V	Murano VMura	are Virtual S SA	C MDD 2.001	<b>TD</b> )				
ß	Copy Disk Wizard		-		-							
		izard		*:New Volum	ie	128.08 G	B 107.82 I	MB 127.	97 GB	NTFS		Logical
	,		<u>ൽ</u> c	hange Volum	e Label				×	Unallocat	ed	Logical
-	amic Disk Managem	ient ⊘										
出	Create Volume		ΕĒ	Changir	ig the label fo	r the selected v	olume:			Ext2		Simple
W	Delete Volume			<b>T</b> -						NTFS		Simple
0	Format Volume		Volur	me Label: F	ilms				_	NTES		Simple
÷.	Move/Resize Volume			Change Vol	ume Label Tut	orial	OF	( Ca	ncel	NIFS		□ Simple
Ð	Copy Volume		-									,
Ø	Wipe Volume			Disk 1								
Q	Explore Volume			MBR 500.00 GB		C:(NTFS) 0 30.0 GB (Usi 1	G:New Volume 100.0 GB (Used		Used: 0%)			
Q	Check File System		` <u> </u>			^						
:=	Volume Properties			Disk 2 MBR	New Volume	(Unallocated)						
ED	Change Volume Labe	el 🛛		3.00 TB	128.1 GB (U							
Ē	Change Volume Lette	er								(C	1	
-0	Change Volume Clus	ter Size	~	Disk 3 MBR	K:New Volum	e(NTFS)(#2)		Ext2)	(:New Volur	F:New Volu	me(NTFS (L	Jnallocated)
Đ,	Convert Dynamic Dis	k to Basic		256.00 GB	128.1 GB,Sim				B MB,Simple	69.3 GB,Sim	ple 58	8.6 GB

Step 2. Next, input new volume label and click **OK** button to go back to the main interface.

Step 3. Finally, click **Apply** to execute the change to computer.

eneral View Disk Partition	Dynamic Disk Wizar	d Help				Mini Too
pply Undo Discard Data Re		y Disk Benchmark Space	e Analyzer		Boot	table Media Manu
Wizard (A	Partition	Capacity	/ Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	I:	369.	46 GB 133.50 MB	369.33 GB	NTFS	Primary
line Copy Partition Wizard	Source Disk 2 (	VMware, VMware Virtual	5 SAS, MBR, 3.00 TB)	)		
Copy Disk Wizard	*:New Volu	me 128 i	08 GB 107.82 MB	127.97 GB	NTFS	Logical
🕞 Partition Recovery Wizard	*:	2943.			Unallocated	
Create Volume     Delete Volume     Format Volume	*: K:Films F:New Volu	128.	VMware Virtual S SA 00 MB 263.00 KB 08 GB 105.86 MB 32 GB 96.96 MB	7.74 MB 127.98 GB	) Ext2 NTFS NTFS	<ul> <li>Simple</li> <li>Simple</li> <li>Simple</li> </ul>
➢ Move/Resize Volume ☐ Copy Volume	•	()	32 GB 90.90 MB	09.22 GB	MIF5	Simple
Q Explore Volume Q Check File System	Disk 1 MBR 500.00 GB	System Res 549 MB (Use 30.0 GB (U	G:New Volume( Jsc 100.0 GB (Used)		%)	
<ul> <li>Volume Properties</li> <li>Change Volume Label</li> </ul>	Disk 2 MBR 3.00 TB	New Volume 128.1 GB (U: 2943.9 GB	ed)			
<ul> <li>Change Volume Letter</li> <li>Change Volume Cluster Size</li> <li>Convert Dynamic Disk to Basic</li> </ul>	Disk 3 MBR 256.00 GB	K:Films(NTFS)(#2) 128.1 GB,Simple	(Ext 8 M		NTF F:New Volume(NT nple 69.3 GB,Simple	(Unallocated) 58.6 GB

# 55. Check Volume File System

# 55.1 About Check Volume File System

**Check Volume File System** feature in MiniTool Partition Wizard is used to verify the logical integrity of the volume file system. To know the details of a volume, users can use this function to check and fix detected errors when there is a need.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

# 55.2 How to Check Volume File System

Step 1. Run MiniTool Partition Wizard, right-click the target volume (for NTFS volume only) and then select **Check File System** feature from the pop-up menu.

neral View Disk Partition Dyr	namic Disk Wizard Help					Mini To
ply Undo Discard Data Recover	ry Partition Recovery Disk Benchr	nark Space Analyz	zer			Bootable Media Ma
Vizard 🔿	Partition	Capacity	Used	Unused	File System	Туре
Migrate OS to SSD/HD Wizard	I:	369.46 GB	133.50 MB	369.33 GB	NTFS	Primary
Copy Partition Wizard	w Disk 2 (VMware, VMw	are Virtual S SA 🖨	Data Recovery			
Copy Disk Wizard	*.		Create Volume		FAT32	Logical
🔒 Partition Recovery Wizard	*.	2943.92 G	Delete Volume		Unallocate	-
Dynamic Disk Management 🔿					onanocate	
+ Create Volume	Dynamic Disk ("Disk 3					
Delete Volume	*:	8.00 M	Move/Resize V	olume	Ext2	Simple
Format Volume	K:Films	128.08 G	Copy Volume		NTFS	Simple
Move/Resize Volume	F:New Volume	69.32 G	Wipe Volume		NTFS	Simple
Copy Volume	•	d	Explore Volum	e		
	Disk 1		Check File Syst			
Q Explore Volume		C:(NTFS) 30.0 GB (Us	Volume Proper	ties		
Q Check File System		۸ <u> </u>	Change Volum	e Label		
Volume Properties	Disk 2	(Usedla sets d) G	Change Volum	e Letter		
E]] Change Volume Label	MBR (FAT32) 3.00 TB 128.1 GB (U	(Unallocated) -	Change Volum			
Change Volume Letter	,					
Change Volume Cluster Size	Disk 3 MBR K:Films(NTF:		Convert Dynam	IC DISK TO BASIC	:New Volum	
🕞 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Sin	nple	8 MB,S	Simple 3 MB, Simple	69.3 GB,Simp	ble 58.6 GB

Step 2. You can select a mode Check only or Check & fix detected errors, and then click Start.

neral View Disk Partition	Dynamic Disk Wizard Help			Mil	ni Too
$< \leq \times$				<u></u>	
ply Undo Discard Data Re	🯄 Check File System		×	Bootable Med	ia Man
Vizard 📀			e Syster	m Ty	pe
🚡 Migrate OS to SSD/HD Wizard	Options: Check only. (Do not fix detected errors.)		NTFS	5 🗖	Primary
🕒 Copy Partition Wizard	Check & fix detected errors.				
Copy Disk Wizard	288 file records processed.		▲ FAT3		Logical
Recovery Wizard	File verification completed.				-
	0 large file records processed. 0 bad file records processed.		Unalloca	ated	Logical
ynamic Disk Management 📀	Stage 2: Examining file name linkage				
~	310 index entries processed.		Ext2		Simple
Delete Volume	Index verification completed. 0 unindexed files scanned.		NTES	s 🗖	Simple
Format Volume	0 unindexed files recovered to lost and found. 0 reparse records processed.		NTES		Simple
Move/Resize Volume	0 reparse records processed.		Nin s	, .	Simple
Copy Volume	Stage 3: Examining security descriptors				
Wipe Volume	Security descriptor verification completed. 11 data files processed.				
Q Explore Volume					
Q Check File System	Windows has scanned the file system and found no problems. No further action is required.				
Volume Properties			•		
Ξ])Change Volume Label	? Check File System Tutorial	Start Cancel			
Change Volume Letter					
Change Volume Cluster Size	Disk 3 MBR K:Films(NTFS)(#2)	(Ext2) K:Films(NT	F F:New Vol	ume(NTES (Unz	llocated)
🕞 Convert Dynamic Disk to Basic	256.00 GB 128.1 GB,Simple		69.3 GB,Si		

Step 3. After finishing the check, click Cancel to go back to the main interface.

# 55. Explore Volume

## 56.1 About Explore Volume

**Explore Volume** is a simple function that enables users to view the content of a volume. With MiniTool Partition Wizard, it is easy to know the file name, file size, file creation time and modified time in the volume even in Windows PE.

Note: This function is only available with the paid edition (view <u>Edition Comparison</u>) and only supports the exploration of FAT and NTFS file systems.

## 56.2 How to Explore Volume

Step 1. Right-click the target volume, and choose the **Explore Volume** from the context menu OR from the left action panel.

neral View Disk Partition Dyn	namic Disk Wizard Help				Mini Too
ply Undo Discard Data Recover	ry Partition Recovery Disk Benchm	ark Space Analyz	er		Bootable Media Mar
Wizard 📀	Partition	Capacity	Used Unused	File System	Туре
Migrate OS to SSD/HD Wizard	I:	369.46 GB	133.50 MB 369.33 GB	NTFS	Primary
Copy Partition Wizard	🛶 Disk 2 (VMware, VMwa	re Virtual S S/ 🔒	Data Recovery		
Copy Disk Wizard	*:	128.08 0 🖽	Create Volume	EAT32	Logical
Partition Recovery Wizard	*.	_	Delete Volume	Unallocate	-
Dynamic Disk Management 🔗	Dynamic Disk ("Disk 3,		Format Volume		
+ Create Volume					
Delete Volume	*:	01001	Move/Resize Volume	Ext2	Simple Simple
Format Volume	K:Films	128.08 🤇 🗐	Copy Volume	NTFS	Simple
Move/Resize Volume	F:New Volume	69.32 0 🖉	Wipe Volume	NTFS	Simple
Copy Volume	•	Q	Explore Volume		
🖉 Wipe Volume	Disk 1		Check File System		
Q Explore Volume	MBR System Res 500.00 GB 549 MB (Use	C:(NTFS) 30.0 GB (Usi	Volume Properties		
Check File System		<u> </u>	Change Volume Label		
Volume Properties	Disk 2 MBR (FAT32)	(Unallocated)	Change Volume Letter		
E] Change Volume Label		2943.9 GB	Change Volume Cluster Size		
哈 Change Volume Letter	Disk 3				
Change Volume Cluster Size Convert Dynamic Disk to Basic	MBR K:Films(NTFS 256.00 GB 128.1 GB,Sim	)(#2)	Convert Dynamic Disk to Basi	F:New Volum	
Usk to Basic	/	pic	Lo motomple Lo moto	simple [ 05.5 Gb/5imp	лс <u>Д</u> зого ав

Step 2. Volume explorer will display the file name, file size, creation time and modified time as a

#### tree view.

/	🯄 Partiti	on Explorer	<u> </u>			οx	
ply Und	do ob						edia Manu
	Name		Creation Time	Modified Time	Size		
Nizard		ly Computer					Туре
🖾 Migra		Films (K:)					Primary
🖾 Migra		🛛 🦲 System Volume Informatio		2018-11-27 18:10:31			
🕒 Сору	Par	eauty	2018-11-28 14:8:46	2018-11-28 14:8:52	05.05 KD		
0 17		001.jpeg	2018-11-28 14:8:52	2018-10-18 11:17:43	25.06 KB		
Copy	Dis	0019b91ec8ef15de5f5		2015-12-17 15:59:11	160.43 KB		Logical
···		002.jpg	2018-11-28 14:8:52	2018-10-18 11:17:49	54.50 KB		Logical
🔒 Partit	ion	003.jpg	2018-11-28 14:8:52	2018-10-18 11:17:58	495.46 KB		Logical
		004.jpg	2018-11-28 14:8:52	2018-10-18 13:4:36	325.42 KB		Logical
ynamic	Dis	023b5bb5c9ea15ce2e		2015-2-28 13:57:54	102.07 KB		
		0d338744ebf81a4cfe2		2015-2-28 13:58:56	186.14 KB		
+ Creat	ie V	1-130603050159.jpg	2018-11-28 14:8:52	2016-9-23 9:44:17	351.96 KB		
Delet	0.14	1.jpg	2018-11-28 14:8:52	2018-7-24 17:39:22	935.91 KB		Simple
J Delet		12345.jpg	2018-11-28 14:8:52	2018-1-29 17:27:15	6.37 KB		
Form	at V	152428ihzbbya73m2q		2016-1-28 8:57:56	1.00 MB		Simple
		181025.jpg	2018-11-28 14:8:52	2018-6-12 16:0:33	380.52 KB		Simple
😤 Move	/Re	183-7-1920x1080.jpg	2018-11-28 14:8:52	2016-9-9 15:38:28	134.11 KB		Simple
		23247351_137361199		2014-12-2 14:4:6	534.10 KB		
Сору	Vol	23247351_137361199		2014-12-2 14:3:38	408.35 KB		•
🖉 Wipe	Va	2560-1600.jpg	2018-11-28 14:8:52	2018-3-21 9:21:49	911.55 KB		
∠ wipe	VU	37714788-desktop-wal.		2018-6-13 8:19:27	904.65 KB		
Q Explo	rel	540eb90503ad2.jpg	2018-11-28 14:8:52	2018-3-21 9:17:37	147.04 KB		
~ Lipio	.~	54a416e9078a3.jpg	2018-11-28 14:8:52	2018-6-29 19:24:56	814.64 KB		
Q Check	k Fi	5f0f1f78fc2be67fbade		2018-6-1 13:27:14	239.08 KB		
		6979301-free-online-d.		2018-6-13 8:19:9	713.21 KB		
Volun		— 📄 78310a55b319ebc43f3.		2015-2-28 13:58:38	32.01 KB		
E) Chan	ge '	Mecycle.BIN	2018-11-28 14:8:46	2018-11-28 14:8:46			
Chan	ge 🕜 Expl	ore Partition Tutorial				Close	
	ae Louine cia	MBR	K:Films(NTFS)(#2)	(Ext2)	to make the second	New Volume(NTFS	(Unallocated)
🖭 Chan							

# 56. Volume Properties

# 57.1 About Volume Properties

**Volume Properties** feature of MiniTool Partition Wizard makes it easy to check detailed information of dynamic volumes. Specifically, this feature shows users the followings:

#### Usage

- Used Space
- Unused Space
- Total Space

#### **File System Information**

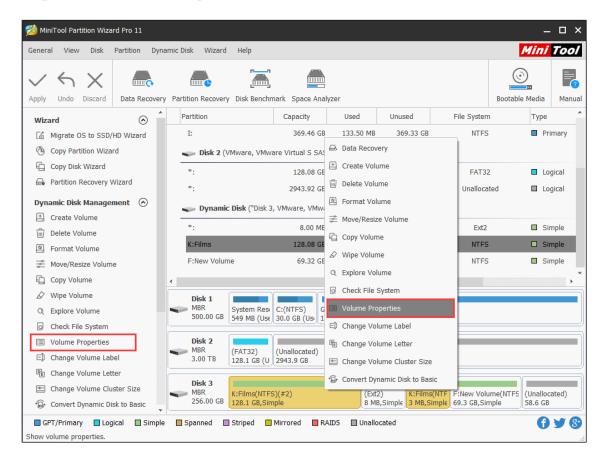
- Sectors per Cluster
- Sectors per File Record
- Sectors per Index Record

- Logical Cluster Number of the \$MFT
- Logical Cluster Number of \$MFTMirr

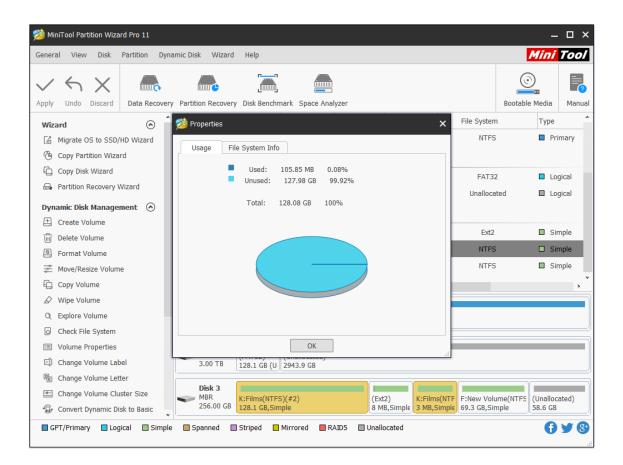
Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 57.2 How to View Volume Properties

Step 1. To use this function, users need to select the target volume at first, and click **Volume Properties** from the left action panel.



Step 2. After that, users will see the following interface which shows the volume information.



# 57. Convert Dynamic Disk to Basic

# 58.1 About Convert Dynamic Disk to Basic Disk

Basic disk and <u>dynamic disk</u> are two basic hard disk configuration types in Windows System. The former one is more popular than the latter one and it can be found in most PCs. The **management of basic disk is indeed much easier** than that of dynamic disk, so basic disk is often more suitable for ordinary computer users.

But for advanced users and IT administrators, if they would like to improve the performance of computer with more than one hard disk, they'd better choose dynamic disk.

Dynamic disk is very different from basic disk. Several independent dynamic disks can join together to form a <u>Spanned Volume</u> in some versions of Windows. Data can be saved to different hard disks to form <u>Striped Volume</u>. Simple volume, mirrored volume, and RAID-5 volume can also be seen in a dynamic disk.

In this way, the performance of computer will be greatly improved. However, to **simplify the management of disk**, ordinary users hope to convert dynamic disk to basic disk safely sometimes.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

## 58.2 How to Convert Dynamic Disk to Basic Disk

The steps to convert a dynamic disk to basic disk are very easy in MiniTool Partition Wizard. Before starting to convert, users need to know two things.

- This dynamic disk convert function is available in all editions except for the free edition.
- This software can only help to convert the dynamic disk containing simple volume and mirrored volume.

The following MiniTool Partition Wizard tutorial will tell users **how to convert dynamic disk to basic disk**. Please read it carefully.

Step 1. Choose the dynamic disk or partition which needs to be converted to basic from the Disk Map or Disk/Partition/Volume List area.

Apply       Undo       Discard       Data Recovery       Partition Recovery       Disk Benchmark       Space Analyzer       Bootable Media       Mage         Wizard	MiniTool Partition Wizard Pro 11 General View Disk Partition Dyna	amic Disk Wizard Help					Mi	ni Too
Wizard       Partition       Capacity       Used       Unused       File System       Type         If Migrate OS to SSD/HD Wizard       Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)       Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)       Primary         If Copy Partition Wizard       Disk 1 (VMware, VMware Virtual S SAS, MBR, 500.00 GB)       Primary       Primary         If Copy Disk Wizard       C:       59.46 GB       21.92 GB       37.54 GB       NTFS       Primary         If Convert Dynamic Disk to Basic       F:       108.43 GB       107.35 MB       108.33 GB       NTFS       Primary         If Convert Dynamic Disk to Basic       F:       108.43 GB       107.35 MB       108.33 GB       NTFS       Logical         If Surface Test       J:       58.85 GB       96.84 MB       58.75 GB       NTFS       Logical         If Disk Properties       Operations Pending       I:       138.36 GB       107.51 MB       112.72 GB       NTFS       Simple         K:       68.53 GB       97.12 MB       68.44 GB       NTFS       Simple         H:       74.48 GB       97.34 MB       74.39 GB       NTFS       Simple         MBR       System Res       C: (NTFS)       Simple       Simple       Simple		-	-	lvzer			Bootable Med	lia Manu
					Unused	File System	Тур	e
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Step 2. Choose Convert Dynamic Disk to Basic function from the left action panel.

Step 3. Click Apply in the upper left to confirm executing pending operations.

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Wizard		Partition		Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD Wiz	ard	C:		59.46 GB	21.92 GB	37.54 GB	NTFS	Pr	imary
Copy Partition Wizard		F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Pr	imar <b>y</b>
Copy Disk Wizard		E:		134.35 GB	108.23 MB	134.25 GB	NTFS	Lo	gical
Convert Disk	$\bigcirc$	J:		58.85 GB	96.84 MB	58.75 GB	NTFS	Lo	gical
Copy Disk	Ŭ	I:		138.36 GB	108.28 MB	138.25 GB	NTFS	Lo	gical
Convert MBR Disk to GPT D	isk	<sub> </sub>	Mware, VMw	are Virtual S SAS	, MBR, 256.00	GB)			
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🖉 Wipe Disk		к:		68.53 GB	97.12 MB	68.44 GB	NTFS	Pr	imary
Delete All Partitions		H:		74.48 GB	97.33 MB	74.39 GB	NTFS	Pr	imary
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昌 Align All Partitions		🥌 Dynamic	Disk ("Disk 2	, VMware, VMwa	are Virtual S SA	S, MBR, 256.00	GB")		
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Step 4. Tap Yes to carry out dynamic disk conversion pending operations.

🯄 Apply	Changes?	×
8	Apply pending changes?	
	<b>NOTE:</b> We strongly recommend you <b>close all other applications</b> before you apply the pending changes.	
	Yes No	

Step 5. Click **OK** when the disk conversion is completed automatically by software or click **Restart Now** sometimes when the dynamic disk users want to convert is in use.

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pply Undo Discard	Data Recove	ry Partition Recovery Disk B	enchmark Space An	alyzer			Bootable Media	Mani
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# 58. Convert MBR Disk to GPT Disk

# 59.1 About Convert MBR Disk to GPT Disk

<u>Master Boot Record (MBR)</u> and <u>GUID Partitioning Table (GPT)</u> are two partition styles. Even though they achieve the mutual goal of separating the information for the operating system, they are very different from one another.

These are 2 main differences between MBR disk and GPT disk:

- Number of partitions: an MBR disk supports at most four primary partitions or three primary partitions and one extended partition while a GPT disk can support up to 128 partitions in Windows.
- Size of partition: the size of a single partition in MBR disk can only reach 2 TB while the largest partition supported by GPT disk is 18 EB.

Note: Many other outstanding features can be found in GPT disk. For more information, please read this post <u>MBR VS GPT (Focus on Difference and How to Convert Safely)</u>.

But these aren't the only reasons why so many users wish to convert from MBR disk to GPT disk.

One of the other amazing features the GPT disk also offers is the **ability to store multiple copies** of the data within the operating system.

If the data is overwritten or corrupted, the GPT disk can recover the data, so the OS will function again. In contrast, the MBR disk does not have this feature and thus unable to easily recover corrupt or overwritten data.

This explains why a growing number of users would like to convert MBR disk to GPT disk as soon as possible. But how to **convert MBR disk to GPT disk without data loss**? We suggest using MiniTool Partition Wizard Free Edition.

Note: The Free Edition can only convert a data disk to GPT. If users want to convert a system disk to GPT, they need to upgrade to an advanced edition.

## 59.2 How to Convert MBR Disk to GPT Disk

#### Importance:

If users are dealing with the system disk, do the followings in advance in case of any accidents after the conversion.

- 1. Create a bootable media of MiniTool Partition Wizard.
- 2. Create a system image or back up the whole system disk.

If there are multiple operating systems, please confirm which operating system needs booting from GPT disk, and then boot from it to do the conversion. MiniTool Partition Wizard is not responsible for the rest operating systems not booting after the conversion. Do it at your own risk.

The downloading and installation process of MiniTool Partition Wizard is easy to finish, even for inexperienced users. Now, let's see how to do:

Note: MiniTool Partition Wizard can help users convert an MBR disk containing Windows to GPT. But if users want to boot from the GPT disk successfully, UEFI mode should be supported and enabled.

Step 1. Choose the MBR disk that users want to convert.

Step 2. Select Convert MBR Disk to GPT Disk function through following three ways.

- Click it under the **Convert Disk** list.
- Choose it from the drop-down list of **Disk** menu at the top.
- Right-click the target disk and choose it from the pop-up list.

🥸 MiniTool Partition Wizard Seneral View Disk Pa		ynamic Disk Wizard Help						-
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Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	nary
line Copy Partition Wizard		C:	59.46 GB	22.05 GB	37.41 GB	NTFS	Prin	nary
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Step 3. Click on **Apply** button in order to carry out pending operations.

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Wizard		Partition	Capacity	Used	Unused	File System	Туре	
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Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prima	iry
Convert Disk	0	E:	134.35 GB	108.23 MB	134.25 GB	NTFS	Logic	al
Copy Disk		J:	58.85 GB	96.84 MB	58.75 GB	NTFS	Logic	al
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Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Primary
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<ul> <li>Disk Properties</li> <li>Data Recovery</li> </ul>		Disk 1 MBR 500.00 GB System Re 549 MB (Us	SI C:(NTFS) SE 59.5 GB (USI 108	NTFS) .4 GB (Used: (	E:(NTFS) 134.4 GB (Used:	J:(NTFS) 0%) 58.8 GB (Us	I:(NTFS) 138.4 GB (Used: 0%
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Step 4. Choose Yes in the pop-up prompt window to start converting a disk from MBR to GPT.

Step 5. Click **OK** button at the end of conversion to end the process.

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oply Undo Discard	Data Recove	ery Partition Recovery Disk Be	nchmark Space Ana	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prim	ary
Copy Partition Wizard		C:	59.46 GB	22.05 GB	37.41 GB	NTFS	Prim	ary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prim	ary
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# 59. Convert GPT Disk to MBR Disk

#### 60.1 About Convert GPT Disk to MBR Disk

<u>GPT</u>, short for GUID Partition Table, is actually a standard BIOS partition table on a physical hard disk. Believe it or not, GPT is much better than <u>MBR</u> in many aspects. For instance, GPT disk supports at most 128 partitions in Windows while MBR disk supports only 4 primary partitions (or 3 primary partitions and 1 extended partition).

No wonder so many users become fans of GPT disk. But why there are still some users who want to **convert GPT disk to MBR Disk**?

Though GPT disk is more advanced when compared to MBR disk, users still need an MBR disk sometimes.

For instance, if users are using a very old operating system like Windows 2000 Server, a GPT disk is not suitable. Even if users employ a GPT disk in Windows 2000 Server, they can't install the operating system to it because the booting from GPT disk is forbidden in such system. All in all, there are still some situations where users need to convert GPT disk to MBR disk.

### 60.2 How to Convert GPT Disk to MBR Disk

#### Important:

It is not recommended to convert system disk from GPT to MBR using MiniTool Partition Wizard. Proceed at your own risk! For the data drive, do the followings in advance in case of any accidents after the conversion.

1. Create a bootable media of MiniTool Partition Wizard.

2. Create a system image or back up the whole system disk.

For the vast majority of computer users, how to convert GPT disk to MBR disk is a tough task since they are inexperienced in managing the disk. Because of that, we'd like to introduce **an amazing tool – MiniTool Partition Wizard** here; it allows users to finish GPT to MBR conversion without damaging data.

Step 1. Run MiniTool Partition Wizard and choose the GPT disk on which conversion needs to be performed.

Step 2. Choose Convert GPT Disk to MBR Disk function through the following 3 ways.

- Click Convert GPT Disk to MBR Disk under the Convert Disk list on the left side.
- Right click on target GPT disk and choose **Convert GPT Disk to MBR Disk** from the pop-up menu.
- Click Disk in the menu bar and choose Convert GPT Disk to MBR Disk.

General View Disk Partition Dyr	namic Disk Wizard Help					Mini	Tool
Apply Undo Discard Data Recov	very Partition Recovery Disk Bench		nalyzer			Bootable Media	Manua
Wizard 🔿	Partition	Capacity	Used	Unused	File System	Туре	
<ul> <li>Migrate OS to SSD/HD Wizard</li> <li>Copy Partition Wizard</li> </ul>	*:System Reserved C:	549.00 MB 59.46 GB	374.37 MB 22.05 GB	174.63 MB 37.41 GB	NTFS	<ul><li>Prim</li><li>Prim</li></ul>	·
Copy Disk Wizard Convert Disk	F: E:	108.43 GB 134.35 GB	107.35 MB 108.23 MB	108.33 GB 134.25 GB	NTFS	<ul><li>Prim</li><li>Logi</li></ul>	
Copy Disk Convert GPT Disk to MBR Disk	J: I:	58.85 GB 138.36 GB	96.84 MB 108.28 MB	58.75 GB 138.25 GB	NTFS NTFS	🗖 Logi 🗖 Logi	
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Check Disk	H: Copy H: Surface Test Data Recovery		97.33 MB 0 B	74.39 GB 155.98 MB	NTFS Unallocate		(Data Pa
Partition Recovery  Disk Properties  Data Recovery  O Operations Pending	Partition Recovery     Partition Recovery     Vipe Disk     Convert GPT Disk to     Properties	MBR Disk	(NTFS) 8.4 GB (Used:	E:(NTFS) () 134.4 GB (Use	J:(NTFS 58.8 GB	) (Us) 138.4 GB (Use	ed: 0%)
GPT/Primary Logical Simpl	G	ed: 0%) Mirrored 🔲 R/	68	(NTFS) .5 GB (Used: 0%)	H:(NTFS) ) 74.5 GB (Us		nallocate 6 MB

Step 3. Click on **Apply** button in the toolbar (at this time, users can see pending operations at the bottom of the left action panel).

eneral View Disk Pa	rtition Dy	namic Disk Wizard Help					Mini	100
✓ < ×				3			©	
pply Undo Discard	Data Reco	overy Partition Recovery Disk Ber	chmark Space An	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Print	ary
🙆 Copy Partition Wizard		C:	59.46 GB	22.05 GB	37.41 GB	NTFS	Print	ary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Print	ary
Convert Disk		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Copy Disk	Ŭ	J:	58.85 GB	96.84 MB	58.75 GB	NTFS	🗖 Logi	cal
Convert MBR Disk to G	PT Disk	I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	cal
Clean Disk	$\bigcirc$	👞 Disk 2 (VMware, VMv	vare Virtual S SAS,	GPT, 256.00 G	iB)			
🖉 Wipe Disk		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	🗖 Prim	ary
Delete All Partitions		К:	68.53 GB	97.12 MB	68.44 GB	NTFS	Print	ary
Check Disk	$\diamond$	H:	74.48 GB	97.33 MB	74.39 GB	NTFS	Print	ary
Align All Partitions		*:	156.00 MB	0 B	156.00 MB	Unallocate	d 🗖 Logi	cal
🙆 Rebuild MBR								
			VV		20	V	v	•
Recovery		Disk 1 MBR System Res	C:(NTFS) F:(	NTFS)	E:(NTFS)	J:(NTFS	) I:(NTFS)	
Disk Properties			59.5 GB (Us) 108				(Us) 138.4 GB (Use	ed: 0%)
🕞 Data Recovery		Disk 2		1				
5 Operations Pending 1. Convert Disk 2 to MBR	,	MBR G:(NTFS) 256.00 GB 112.8 GB (U	sed: 0%)		(NTFS) .5 GB (Used: 0%)	H:(NTFS) 74.5 GB (Us		nallocat 6 MB

Step 4. Tap **Yes** button to confirm conversion.

neral View Disk Pai	rtition Dyna	amic Disk Wizard Help					Mini	100
/		<b></b>					<u></u>	
oply Undo Discard	Data Recov	ery Partition Recovery Disk Be	enchmark Space An	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	nary
🕒 Copy Partition Wizard		C:	59.46 GB	22.05 GB	37.41 GB	NTFS	Prin	nary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
Convert Disk		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Copy Disk	Ŭ	Apply Changes?			:	× NTFS	🗖 Logi	cal
2 Convert MBR Disk to GP	PT Disk	Apply pending cha	199952			NTFS	🗖 Logi	cal
C <b>lean Disk</b> Wipe Disk Wip Delete All Partitions	٢		y recommend you clothe pending changes.		applications	NTFS	Prin Prin	1
 Check Disk		Н:	74.48 GB	97.33 MB	74.39 GB	NTES	Prin	
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Rebuild MBR			100100 110	0.5	100100 110	onanocate	.u <b>1</b> 209.	
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eneral View Disk Pa	rtition Dyna	amic Disk Wizard	Help					Mini	100
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pply Undo Discard	Data Recove	ery Partition Recove	ry Disk Benc	hmark Space	Analyzer			Bootable Media	Man
Wizard		Partition		Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Re	served	549.00 M	3 374.37 MB	174.63 MB	NTFS	Prin	nary
Copy Partition Wizard		C:		59.46 G	22.06 GB	37.41 GB	NTFS	Prin	nary
Copy Disk Wizard		F:		108.43 G	3 107.35 MB	108.33 GB	NTFS	Prin	nary
Partition Management		E:		134.35 G	3 108.23 MB	134.25 GB	NTFS	🗖 Log	ical
Create Partition	Ŭ	J:		50.0E CI	00.04 MD	58.75 GB	NTFS	🗖 Log	ical
✓ Wipe Partition		I: 🎽 S	luccessful			× 3.25 GB	NTFS	🗖 Log	ical
Check Partition		🥪 Dis 🧲	Applie	d all the pendin	g changes succes	ssfully.			
	0	G:			_	2.72 GB	NTFS	Prin	nary
Partition Properties		к:		ОК			NTES	Prin	
🕞 Data Recovery		н:		74.48 G	3 97.33 MB	74.39 GB	NTES	Prin	
) Operations Pending		*:		156.00 M		156.00 MB	Unallocate		
, ,									
		•							
		Disk 1 MBR 500.00 GB			F:(NTFS) 108.4 GB (Used:	E:(NTFS) 134.4 GB (Use	d: 0%) J:(NTFS)	) (Usi 138.4 GB (Us	ed: 0%
		Disk 2 MBR 256.00 GB	G:(NTFS) 112.8 GB (Us	ed: 0%)		:(NTFS) 8.5 GB (Used: 0%	H:(NTFS) ) 74.5 GB (Us	(L	inallocai

Step 5. Wait for the completion of disk conversion. Then click OK button finally.

# 60. Convert FAT to NTFS

#### 61.1 About Convert FAT to NTFS

It is obvious that NTFS beats FAT in many aspects. If users' flash drive, external hard disk partition or internal hard disk partition is formatted with FAT <u>file system</u>, they may want to **convert FAT to NTFS** to achieve the following purposes:

- Handle large files (over 4GB).
- Get better stability, higher security and lesser defragmentation time.

But it is a pity that most of the users don't have a clear idea of how to convert FAT to NTFS. In view of this, we decide to provide users with an excellent tool – MiniTool Partition Wizard. The corresponding MiniTool Partition Wizard tutorial will be given below.

#### 61.2 How to Convert FAT to NTFS

The MiniTool Partition Wizard is equipped with high security, so users can carry out all operations

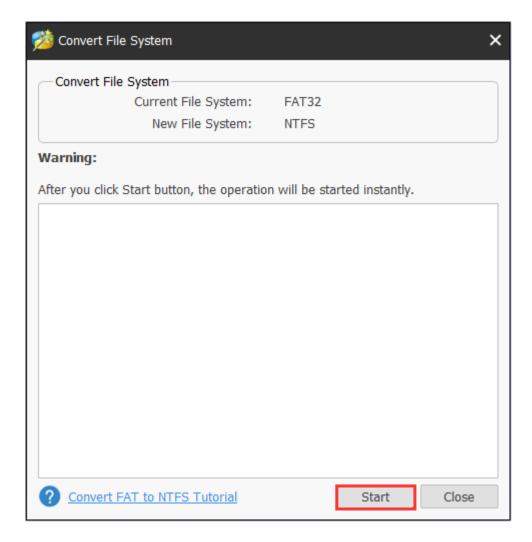
in this tool safely. That is to say, it can help users **convert FAT to NTFS without causing any data loss**.

Follow this MiniTool Partition Wizard tutorial to execute FAT conversion.

Step 1. Choose the FAT partition and select **Convert FAT to NTFS** from left **Change Partition** list or from right-click menu (which will emerge after right clicking on target FAT partition).

eneral View Disk Pa	rtition Dyn	amic Disk Wizard	Help					Mini	100
✓ < ×								0	
pply Undo Discard	Data Recov	ery Partition Recover	y Disk Benc	hmark Space A	nalyzer			Bootable Media	Manu
Wizard		Partition		Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Res	erved	549.00 MB	374.37 ME	3 174.63 MB	NTFS	Prir	nary
left Copy Partition Wizard		C:		59.46 GB	22.06 GE	3 37.41 GB	NTFS	Prir	nary
Copy Disk Wizard		F:		108.43 GB	107.35 ME	3 108.33 GB	NTFS	Prir	nary
Change Partition		E:		134.35 GB	108.23 ME	3 134.25 GB	NTFS	🗖 Log	ical
Move/Resize Partition	Ŭ	J:		58.85 GB	96.84 ME	58.75 GB	NTFS	🗖 Log	ical
Extend Partition		I:		138.36 GB	108.28 ME	3 138.25 GB	NTFS	🗖 Log	ical
C Merge Partition		Disk 2 (VN	Iware, VMwa	are Virtual S SA	S, MBR, 256.00	) GB)			
]⊂ Split Partition		G:		112.83 GB	107.50 M	3 112.72 GB	NTFS	Prir	narv
Change Cluster Size		к:		68.53 GB	97.12 M		NTES	Prir	
🗘 Convert FAT to NTFS		н:		74.48 GB	97.33 M		NTFS	Prir	
品 Set Partition as Logical		L:		156.00 MB	2.45 M		FAT32	Prir	
Partition Management	$\bigcirc$	-		100100 110	2110 111	100100 110			,
Delete Partition		•							1
Format Partition		Disk 1			(				
Copy Partition					(NTFS) 08.4 GB (Used	E:(NTFS) : 0 134.4 GB (Us	I:(NTFS ed: 0%) 58.8 GB	) I:(NTFS) (Usi 138.4 GB (Us	ed: 0%)
음 Align Partition									
Wipe Partition		Disk 2 MBR	G:(NTFS)			(:(NTFS)	H:(NTFS)		(FAT32
E] Set Label			L12.8 GB (Us	ed: 0%)		58.5 GB (Used: 0%			56 MB (I

Step 2. Click **Start** button at the bottom of the pop-up window to get FAT to NTFS conversion started automatically and instantly.



Step 3. Click **Close** button when the conversion is completed.

🯄 Convert File System		×
Convert File System		
Current File System: FAT32		
New File System: NTFS		
Warning:		
After you click Start button, the operation will be sta	arted instantly.	
No further action is required.		*
161,004,544 bytes total disk space. 512 bytes in 1 folders. 1,024 bytes in 2 files. 161,002,496 bytes available on disk. 512 bytes in each allocation unit.		
314,462 total allocation units on disk. 314,458 allocation units available on disk.		
Determining disk space required for file system con Total disk space: 159743 KB Free space on volume: 157229 KB Space required for conversion: 2409 KB Converting file system Conversion complete	version	v
Convert FAT to NTFS Tutorial	Start	Close

# 61. Convert NTFS to FAT

#### 62.1 About Convert NTFS to FAT

NTFS is now used by more and more people since it is a relatively better <u>file system</u> than FAT. But in some cases, users still need to **convert NTFS to FAT**. For example, when the target disk or program only supports FAT, users have to do such work. Well then, how to convert NTFS to FAT safely?

In fact, the operations are quite simple as long as users employ MiniTool Partition Wizard. By using the **Convert NTFS to FAT** function, users can **finish file system conversion without any data damage**.

Note: Since the Convert NTFS to FAT function owns the capacity of automatic recognition, the software will convert an NTFS partition to a FAT 12 partition, a FAT 16 partition or a FAT 32 partition according to the actual partition size in the process of converting.

#### 62.2 How to Convert NTFS to FAT

Please follow the MiniTool Partition Wizard tutorial below to convert file system from NTFS to FAT, without bringing any damage to data.

Note: MiniTool Partition Wizard Free Edition does not support this function. To use this function, users need to buy a professional edition or more advanced edition. View Edition Comparison to know more.

Step 1. Select the NTFS partition whose file system needs to be converted in Disk Map or Disk/Partition/Volume List area. Then choose **Convert NTFS to FAT** function form the left action panel.

eneral View Disk Pa	rtition Dy	namic Disk Wizard Help					Mini	100
< 5 X		inne					0	
pply Undo Discard	Data Reco	overy Partition Recovery Disk	Benchmark Space Ar	nalyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	ary
Copy Partition Wizard		C:	59.46 GB	22.06 GB	37.41 GB	NTFS	Print	ary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Print	ary
Change Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Move/Resize Partition	Ŭ	J:	58.85 GB	96.84 MB	58.75 GB	NTFS	🗖 Logi	cal
Extend Partition		I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	cal
C Merge Partition		Disk 2 (VMware,	VMware Virtual S SAS	, MBR, 256.00 (	GB)			
]C Split Partition		G:	112.83 GB	107.50 MB	112.72 GB	NTFS	Print	any
Change Cluster Size	_	к:	68.53 GB	97.12 MB	68.44 GB	NTES	Prim	1
Convert NTFS to FAT		H:	74.48 GB	97.33 MB	74.39 GB	NTFS	Prim	<i>'</i>
Partition Management	$\bigcirc$	n. L:	156.00 MB	9.86 MB	146.14 MB	NTFS	Prin	
Delete Partition		L:	150.00 MB	9.00 MB	140.14 MB	NIFS		iary >
Format Partition					ЭС			,
Copy Partition		Disk 1 MBR System	Res C:(NTFS) F:	(NTFS)	E:(NTFS)	J:(NTFS	) I:(NTFS)	
昌 Align Partition		500.00 GB 549 MB	(Use 59.5 GB (Use 10	)8.4 GB (Used: )	0 134.4 GB (Used	1: 0%) 58.8 GB	(Us) 138.4 GB (Use	d: 0%)
Wipe Partition		Disk 2		) (		- Y		
E]] Set Label		MBR G:(NTFS 256.00 GB 112.8 G	5) B (Used: 0%)		(NTFS)	H:(NTFS)		NTFS)
🕒 Change Drive Letter			b (Useu: 0%)		.5 GB (Used: 0%)	74.5 GB (Us	eu. 0%) [15	6 MB (U

Step 2. Click the Apply button in the upper left corner to apply changes.

					_	_			-	
$\checkmark$	ΥΥ				5 🖕				O	
pply	Undo Discard	Data Reco	overy Partition Recove	ry Disk Bend	chmark Space A	nalyzer			Bootable Media	Manu
Wizard	d		Partition		Capacity	Used	Unused	File System	Туре	
[å M	ligrate OS to SSD/HD	Wizard	*:System Res	served	549.00 MB	374.37 MB	174.63 MB	NTFS	Pr	imary
@ Co	opy Partition Wizard		C:		59.46 GB	22.06 GB	37.41 GB	NTFS	Pr	imary
E Co	opy Disk Wizard		F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Pr	imary
Chang	e Partition		E:		134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 La	gical
≓ M	love/Resize Partition	Ŭ	J:		58.85 GB	109.46 MB	58.74 GB	FAT32	🗆 La	gical
ØВ	xtend Partition		I:		138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Lo	gical
ω	lerge Partition		<b>— Disk 2</b> (V	Mware, VMw	are Virtual S SAS	6, MBR, 256.00	GB)			
⊐l⊂ Sp	plit Partition				112.83 GB	107.50 MB	112.72 GB	NTES	Pr	imary
Ch	hange Cluster Size		K:		68.53 GB	97.12 MB	68.44 GB	NTFS		imary
Partiti	ion Management	$\odot$	H:		74.48 GB	97.33 MB		NTES		imary
<u>ا</u> آل	elete Partition		L:		156.00 MB	9.86 MB	146.14 MB	NTFS	Pr	
🖲 Fo	ormat Partition		4		100100110	5100 110				•••••
@ Co	opy Partition		Disk 1				1			
읍 Al	lign Partition		MBR	System Res		(NTFS)	E:(NTFS)	J:(FAT3		
ØW	/ipe Partition		500.00 GB	549 MB (Use	59.5 GB (Usi 1	08.4 GB (Used:	0 134.4 GB (Use	ed: 0%) 58.8 GB	(Usi) 138.4 GB (U	lsed: 0%)
E] Se	et Label		Disk 2						Ĩ	
�� Cł	hange Drive Letter			G:(NTFS) 112.8 GB (Us	ed: 0%)		:(NTFS) 8.5 GB (Used: 0%	H:(NTFS) 6) 74.5 GB (Us		L:(NTFS) 156 MB (U
© Cł	hange Partition Type I		• I	112.0 00 (03		l	0.0 00 (0000. 07	- <sub>μ</sub> , πο συ (θε		

Step 3. Click on Yes button in the pop-up window to confirm pending changes on partition.

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$\checkmark$ $\checkmark$ $\times$	ínn <mark>o</mark>	. ind					©	
pply Undo Discard	Data Reco	overy Partition Recovery Disk Be	nchmark Space Ana	lyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prir	nary
Copy Partition Wizard		C:	59.46 GB	22.06 GB	37.41 GB	NTFS	Prir	nary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prir	mary
Change Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	ical
Move/Resize Partition		Apply Changes?				× FAT32	🗖 Log	ical
Extend Partition						NTFS	🗖 Log	ical
S Merge Partition		Apply pending cha						
□ C Split Partition			recommend you <b>clo</b> ne pending changes.	se all other	applications	NTFS	Prir	
Change Cluster Size		l r	Yes No			NTES		1
Partition Management	$\bigcirc$	н:	74.48 GB	97.33 MB	74.39 GB	NTFS	Prir	· ·
Delete Partition	Ŭ						Prir	
Format Partition		L:	156.00 MB	9.86 MB	146.14 MB	NTFS	Prir	•
Copy Partition			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		V.			,
Align Partition		Disk 1 MBR System Re	C:(NTFS) F:()	NTFS)	E:(NTFS)	J:(FAT3	2) I:(NTFS)	
			æ 59.5 GB (Usi 108					ed: 0%)
E]] Set Label		Disk 2						
Change Drive Letter		MBR G:(NTFS)			(NTFS)	H:(NTFS)		(NTFS)
Change Partition Type	ID	256.00 GB 112.8 GB (	Jsed: 0%)	68	.5 GB (Used: 0%)	74.5 GB (U	sed: 0%)1	56 MB (l

Step 4. Wait for all pending operations to complete. Click on **OK** button to end NTFS to FAT conversion when **Applied all the pending changes successfully prompt window shows up**.

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pply Undo Discard	Data Recove	ery Partition Recovery Disk Be	nchmark Space An	alyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	<u> </u>	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prim	ary
Copy Partition Wizard		C:	59.46 GB	22.06 GB	37.41 GB	NTFS	Prim	ary
Copy Disk Wizard		F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prim	ary
Change Partition		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Move/Resize Partition	<u> </u>	J:	E0.05.CD	041 76 MD	57.93 GB	FAT32	🗖 Logi	cal
Extend Partition		I: Successful			× 3.25 GB	NTFS	🗖 Logi	cal
Merge Partition		🥪 Dis 👔 App	ied all the pending c	hanges succes	sfully.			
⊐ Split Partition		G:			2.72 GB	NTFS	Prim	201
Change Cluster Size		к:	ОК		3.44 GB	NTES	Prim	1
💭 Convert NTFS to FAT		н:	74.48 GB	97.33 MB	74.39 GB	NTES	Prim	<i>.</i>
品 Set Partition as Logical		L:	156.00 MB	9.86 MB	146.14 MB	NTFS	Prim	
Partition Management	$\bigcirc$	4	130.00 MB	3.00 100	140.14	NT S		ury ,
Delete Partition		Disk 1			Υ	Υ	)(	
Format Partition		MBR System Re	S C:(NTFS) F:(	NTFS)	E:(NTFS)	J:(FAT3)	2) I:(NTFS)	
Copy Partition		500.00 GB 549 MB (U	st 59.5 GB (Us) 10	8.4 GB (Used: (	134.4 GB (Use	d: 0%) 58.8 GB	(Us) 138.4 GB (Use	d: 0%)
昌 Align Partition		Disk 2						
Wipe Partition		MBR G:(NTFS) 256.00 GB 112.8 GB (			(NTFS)	H:(NTFS)		NTFS)
E] Set Label		256.00 GB 112.8 GB (	Usea: 0%)		.5 GB (Used: 0%	) 74.5 GB (Us	sed: 0%)	5 MB (L

## 62. Set Partition as Primary

#### 63.1 About Set Partition as Primary

As we all know, partitions on an MBR disk can be divided into two types: <u>primary</u> <u>partition</u> and <u>extended partition</u> and the latter can be subdivided into several <u>logical partitions</u>. What users actually see in disk is logical partition and primary partition. Well, in which situation do users need to **set partition as primary**? How to set a logical partition as primary?

First of all, we'd like to explain the reason for setting partition as primary.

If users want to install a second operating system to computer but have no more primary partitions, they have to set a logical partition as primary. That is because all the system files and boot files of an operating system must be saved to a primary partition and this partition should be different from the one that saves files of the original operating system.

In this article, we are going to give users a MiniTool Partition Wizard tutorial to show how to set partition as primary.

#### 63.2 How to Set Partition as Primary

2 main limitations in setting partition as primary on MBR disk:

1. Users can't finish this task if there are already 3 primary partitions and more than one logical partition on the disk (since an MBR disk can support at most 4 primary partitions or 3 primary partitions and 1 extended partition).

2. Even though there are only 1 or 2 primary partitions, users still can't set a logical partition as primary if the adjacent partitions of this logical partition are both logical partitions (since MBR disk can support at most one extended partition; if this task could be made, there would be 2 extended partitions on the disk).

Now, please follow the MiniTool Partition Wizard tutorial given below:

Step 1. Choose the logical partition that needs to be set as primary partition. Then choose **Set Partition as Primary** directly from left action panel.

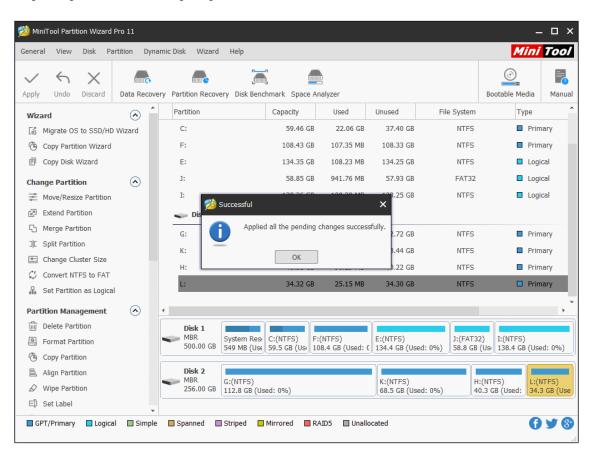
eneral View Disk Pa	rtition Dyr	namic Disk Wizard	Help					Mini	100
< 5 X	ímilo,	í inte	<u>(</u>					٢	
pply Undo Discard	Data Reco	very Partition Recov	ery Disk Ben	chmark Space A	Analyzer			Bootable Media	Manu
Wizard		Partition		Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	C:		59.46 GB	22.06 GB	37.40 GB	NTFS	Prin	nary
Copy Partition Wizard		F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
Copy Disk Wizard		E:		134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Logi	ical
Change Partition		J:		58.85 GB	941.76 MB	57.93 GB	FAT32	🗖 Logi	ical
Move/Resize Partition	Ŭ	I:		138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Logi	ical
Extend Partition		🥌 Disk 2 (	/Mware, VMv	vare Virtual S SA	S, MBR, 256.00 G	iB)			
Merge Partition		G;		112.83 GB	107.50 MB	112.72 GB	NTES	Prin	any
⊐⊂ Split Partition		к:		68.53 GB	97.12 MB	68.44 GB	NTFS	Prin	
Change Cluster Size		н:		40.31 GB	96.29 MB	40.22 GB	NTFS	Prin	
💭 Convert NTFS to FAT	_	L:		40.31 GB	25.15 MB	34.30 GB	NTES		
品 Set Partition as Primary	у	6		34.32 GD	23.13 MB	54.50 GB	NIFS		ical
Partition Management	$\bigcirc$	•							•
Delete Partition		Disk 1							
Format Partition		MBR 500.00 GB	System Res		:(NTFS) 08.4 GB (Used: 0	E:(NTFS) 134.4 GB (Use	d: 0%) 58.8 GB		ed: 0%)
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E]] Set Label		·							

Step 2. Click Apply to all the pending operation.

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/	Υ Υ	í								©	
oply	Undo Discard	Data Rec	overy Pa	rtition Recov	ery Disk Benc	hmark Space	Analyzer			Bootable Media	Manu
Nizar	ď		^ Pa	artition		Capacity	Used	Unused	File System	Туре	
Cá N	- ligrate OS to SSD/HD	<u> </u>		C:		59.46 GE	22.06 GB	37.40 GB	NTFS	Pri	mary
<b>B C</b>	Copy Partition Wizard			F:		108.43 GE	107.35 MB	108.33 GB	NTFS	Prin	mary
P	Copy Disk Wizard			E:		134.35 GE	108.23 MB	134.25 GB	NTFS	🗖 Log	jical
Chano	ge Partition			):		58.85 GE	941.76 MB	57.93 GB	FAT32	🗖 Log	jical
	ove/Resize Partition	Ŭ		I:		138.36 GE	108.28 MB	138.25 GB	NTFS	🗖 Log	jical
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<b>℃</b> №	lerge Partition		-	G:		112.83 GE	3 107.50 MB	112.72 GB	NTFS	Pri	mary
jc s	plit Partition			к:		68.53 G		68.44 GB	NTES	Prin	· ·
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Ç, C	Convert NTFS to FAT										
抺 S	et Partition as Logica	il		L:		34.32 GE	25.15 MB	34.30 GB	NTFS	🗖 Prii	mary
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ش D	elete Partition			Disk 1							
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E) s	et Label										

Step 3. Tap Yes button to confirm changes on the selected logical partition.

eneral View Disk Pa	rtition Dyr	namic Disk Wizard	Help				Mini	100
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pply Undo Discard	Data Reco	very Partition Recovery	Disk Benchmark Sp	ace Analyzer			Bootable Media	Manu
Wizard		Partition	Capacity	Used	Unused	File System	Туре	
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Copy Disk Wizard		E:	134.3	5 GB 108.23 MB	134.25 GB	NTFS	🗖 Logi	cal
Change Partition		J:	58.8	941.76 MB	57.93 GB	FAT32	🗖 Logi	cal
Move/Resize Partition		Apply Changes?				X NTFS	🗖 Logi	cal
Extend Partition								
Merge Partition			nding changes?			NTFS	Prim	any
]C Split Partition			e strongly recommend ou apply the pending c		applications	NTFS	Prim	1
Change Cluster Size			Yes	No		NTFS	Prim	1
Convert NTFS to FAT		L			24.20 CB			·
品 Set Partition as Logical		L:	34.3	2 GB 25.15 MB	34.30 GB	NTFS	🗖 Prim	ary
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Step 4. Tap **OK** button in the prompt window at the end of the task.

# 63. Set Partition as Logical

#### 64.1 About Set Partition as Logical

One of the biggest limitations of MBR disk is that it can **support up to 4 primary partitions** (or 3 <u>primary partitions</u> plus 1 <u>extended partition</u>). Imagine this, users already have 4 primary partitions but still need to create more partitions with free space on this disk, users will receive this prompt when trying to create new partitions in Disk Management.

What are users supposed to do to work this out?

Certainly, the best way to solve this problem is to **set partition as logical**. After that, users can get as many <u>logical partitions</u> as they want by adjusting the size of existing partitions.

Now, the only obstacle is how to set partition as logical. Considering that users are not familiar with such task at all, we feel glad to offer a wonderful tool named MiniTool Partition Wizard.

Detailed tips can be found in each interface of this tool, so users got nothing to worry about.

#### 64.2 How to Set Partition as Logical

Here's the MiniTool Partition Wizard tutorial for setting a primary partition as logical; it only consists of three steps.

Step 1. Choose any one primary partition that users want to set as logical from the main interface of the software (except for the one that includes system files). Then choose **Set Partition as Logical** function directly from **Change Partition** list in left action panel.

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ply Undo Discard	Data Reco	overy Partition Recov	ery Disk Benchmar	k Space An	alyzer			Bootable Media	Manu
Vizard		Partition	Ca	pacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	<u> </u>	C:		59.46 GB	22.06 GB	37.40 GB	NTFS	Prin	nary
🕒 Copy Partition Wizard		F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
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hange Partition		J:		58.85 GB	941.76 MB	57.93 GB	FAT32	🗖 Logi	ical
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品 Set Partition as Logical		L:		34.32 GB	25.15 MB	34.30 GB	NTFS	🗖 Prin	nary
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Ξ]) Set Label		L							

Of course, users can also activate Set Partition as Logical function through following ways.

1. right click the target partition -> choose **Set Partition as Logical**;

2. select Partition in menu bar -> choose **Modify** -> choose **Set Partition as Logical**.

Step 2. Tap Apply button in the toolbar to execute pending operation immediately.

neral	View Disk P	artition D	ynamic D	isk Wizard	Help					мт	<i>i Too</i>
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ply	Undo Discard	Data Rec	overy Pa	artition Recov	ery Disk Benc	hmark Space	Analyzer			Bootable Media	Manu
Nizar	d		^ F	artition		Capacity	Used	Unused	File System	Туре	
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e c	opy Disk Wizard			E:		134.35 G	B 108.23 MB	134.25 GB	NTFS	🗖 Lo	gical
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E) s	et Label										

Step 3. Click Yes in the prompt window to allow changes.

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pply	Undo Di	iscard	Data Reo	overy Partiti	on Recove	ry Disk Benc	- hmark Space	Analyzer			Bootable Medi	a Manu
Wiza	ard			* Partit	ion		Capacity	Used	Unused	File System	Туре	•
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Wizard 🤄	Partition	I	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD Wizar	d C:		59.46 GB	22.06 GB	37.40 GB	NTFS	Prir	nary
Copy Partition Wizard	F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Prir	nary
Copy Disk Wizard	E:		134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	ical
Change Partition	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	🗖 Log	ical
Move/Resize Partition	I:	-	100.00 00	100.00 MD	108.25 GB	NTFS	🗖 Log	ical
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E]) Set Label	L							

Step 4. Tap **OK** button in successful prompt window to end the whole task.

# 64. Set Active/Inactive

#### 65.1 About Set Active/Inactive

When users install system on a hard drive, there will be a system partition. If system partition is not set active, Windows will be unbootable, as only setting the system partition active can MBR visit the very partition to find Windows boot programs BOOTMGR and Boot Configuration Database.

Normally, if users have added a new disk to computer and finished migrating OS from the original disk to the new one, user need to **set boot partition on the new disk as active** and then set it to be

Note: If users use Migrate OS to SSD/HD function of MiniTool Partition Wizard to transfer OS to another drive, the software will set the new drive as active automatically at the end of OS migration.

the first boot device in order to make computer boot from it successfully.

Now, the question comes – how to set active/inactive manually when necessary? We'll introduce Copyright © 2019 MiniTool® Software Limited, All Rights Reserved. the method of using Set Active/Inactive in MiniTool Partition Wizard.

Here is the step-by-step MiniTool Partition Wizard tutorial.

#### 65.2 How to Set Active

Note: The following operations are competed with MiniTool Partition Wizard Bootable Edition. users can use MiniTool Partition Wizard's **Bootable Media Builder** feature to create bootable CD/DVD/USB flash drive or build an ISO image of a bootable disc. After that, use the bootable disk to start computer to get the main interface of MiniTool Partition Wizard Bootable Edition.

Step 1. Select the partition users would like to set as active and choose **Set Active** from the left action panel.

#### **Kindly Remind:**

- If users are running an MBR disk, only the primary partitions on it can be set active. But if the disk is GPT, there's no such limit.
- One disk can hold at most 1 active partition.
- If users set the wrong partition as active and change the original active partition into inactive, they will be blocked out from Windows system.

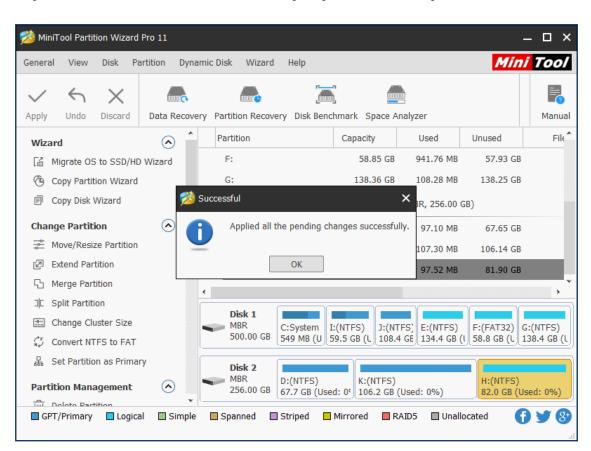
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Partition Management		Partition	(	Capacity	Used	Unused	File
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合 Align Partition		E:		134.35 GB	108.83 MB	134.25 GB	
		F:		58.85 GB	941.76 MB	57.93 GB	
⊏]) Set Label		G:		138.36 GB	108.28 MB	138.25 GB	
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సాగ Hide Partition				5 GB (U 108.4			
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GPT/Primary Logical	Simple	Spanned S	triped 📃 Mii	rrored 🔲 RA	ID5 🔲 Unal	located	<b>8 V (</b>

General View Disk Partition Dyn	amic Disk Wizard	Help		Min	Τοοί
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Check File System	J:	108.43 GB	107.35 MB	108.33 GB	
Q Explore Partition	E:	134.35 GB	108.83 MB	134.25 GB	
	F:	58.85 GB	941.76 MB	57.93 GB	
Partition Properties	G:	138.36 GB	108.28 MB	138.25 GB	
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<b>1 Operations Pending</b> — 1. Set Active: (C: ( Disk 1 Parti		C:System 549 MB (U 59.5 GB (L 108.	TFS) E:(NTFS) 4 GE 134.4 GB (	F:(FAT32) 58.8 GB (U 1	· ·
		D:(NTFS) 67.7 GB (Used: 0 <sup>4</sup> ) 106.2 GB	(Used: 0%)	H:(NTFS) 82.0 GB (U	sed: 0%)

Step 2. Click on Apply button to perform pending operations.

Step 3. Choose Yes from Apply Changes prompt window to confirm.

🟂 MiniTool Partition Wizard Pr	ro 11				_ O ×
General View Disk Part	ition Dynamic Disk Wizard	Help		Min	i Tool
✓ < < ×					
Apply Undo Discard	Data Recovery Partition Recover	y Disk Benchmark	Space Analyzer		Manual
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			K:(NTFS) 106.2 GB (Used: 0%)	H:(NTFS) 82.0 GB (U	sed: 0%)
GPT/Primary Logical	Simple Spanned	Striped 🔲 Mirrore	ed 🔲 RAID5 🔲 Un	allocated	<b>y 8</b>



Step 4. Click on **OK** button when the **Successful** prompt window shows up so as to end this task.

#### 65.3 How to Set Inactive

The process to set inactive is very similar to set active.

Step 1. Select the partition users would like to set as inactive and choose Set Inactive.

🐞 MiniTool Partition Wizard Pro	o 11						_
General View Disk Parti	tion Dynami	ic Disk Wizard	НеІр			Min	i Tool
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Partition Management		Partition		Capacity	Used	Unused	File
Delete Partition	•	C:System Res	erved	549.00 MB	374.37 MB	174.63 MB	
Format Partition		I:		59.46 GB	21.98 GB	37.48 GB	
Copy Partition		J:		108.43 GB	107.35 MB	108.33 GB	
邑 Align Partition		E:		134.35 GB	108.83 MB	134.25 GB	
		F:		58.85 GB	941.76 MB	57.93 GB	
티) Set Label		G:		138.36 GB	108.28 MB	138.25 GB	
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Change Partition Type ID		Disk 1		γ			)
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Step 3. Click on Yes button in Warning window to continue.

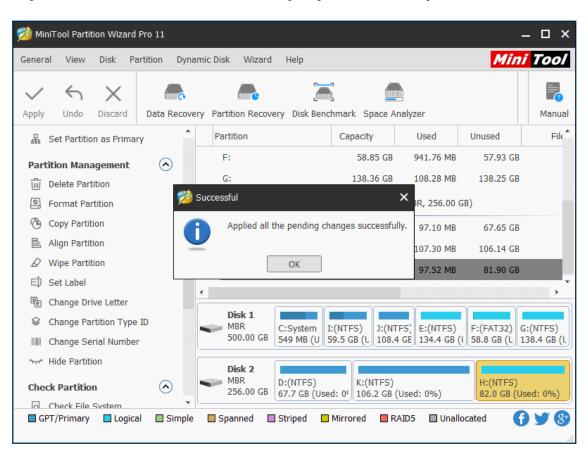
🚧 MiniTool Partition Wizard	Pro 11						– 🗆 ×
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昌 Align Partition		k contains system p mputer to be unboo		ging active part	ition may cause	134.25 GB	
	Are you	sure you want to c	ontinue?			57.93 GB	
티) Set Label	Are you	Yes	No			138.25 GB	
🕒 Change Drive Let							, <b>*</b>
Change Partition Type							·
IIII Change Serial Numbe	er 🔤	Disk 1	:System I:(	NTFS) J:(NT	FS) E:(NTFS)	F:(FAT32)	C·(NTES)
~~ Hide Partition					4 GE 134.4 GB		
🕸 Set Inactive	ſ	Disk 2					
Check Partition	<u>ه</u>	MBR D	):(NTFS) 67.7 GB (Used	K:(NTFS) 0 106.2 GB	(Used: 0%)	H:(NTFS) 82.0 GB (U	sed: 0%)
Check File System	• L_				. ,		
GPT/Primary Logic	al 🔲 Simple	Spanned 🔲 S	Striped 🔲 N	1irrored 🔲 R	AID5 🔲 Unal	located	<b>8 V (</b>

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Dartiti	ion Man:	agement	$\bigcirc$	^	Partition		Capacity		Used	Unused	File
-	elete Parl	2	0		C:System Re	served	549.00	МВ	374.37 MB	174.63 MB	
	ormat Pai				I:		59.46	GB	21.98 GB	37.48 GB	
_	opy Partit				J:		108.43	GB	107.35 MB	108.33 GB	
_	lign Partit				E:		134.35	GB	108.83 MB	134.25 GB	
_	/ipe Partit				F:		58.85	GB	941.76 MB	57.93 GB	
E) s	et Label				G:		138.36	GB	108.28 MB	138.25 GB	
₽ C	hange Dri	ive Letter			Disk 2 ()	///////////////////////////////////////	ore Virtual C	CAC M	DD DE6 00 (	<b>CD</b> )	
₿ C	hange Pa	rtition Type	ID	Ē					۱ <u>۲</u>		
C	hange Se	rial Number			Disk 1 MBR	C:System	I:(NTFS) J	:(NTFS)	E:(NTFS)	F:(FAT32) (	G:(NTFS)
ትተ ዘ	ide Partiti	on			500.00 GB		59.5 GB (U 1				· ·
s∕r S	et Active				Disk 2						
Check	Partitio	n	$\bigcirc$		MBR 256.00 GB	D:(NTFS) 67.7 GB (Use	K:(NT ed: 0' 106.2	FS) GB (Use	d: 0%)	H:(NTFS) 82.0 GB (U	sed: 0%)

Step 4. Click on **Apply** button to perform pending operations.

Step 5. Choose Yes from Apply Changes prompt window to confirm.

DiniTool Partition Wizard Pro 11					- 🗆 ×
General View Disk Partition Dynam	nic Disk Wizard Help			Min	Τοοί
✓ < X 📠		im			
Apply Undo Discard Data Recovery	Partition Recovery Disk Bench	mark Space A	nalyzer		Manual
Partition Management	Partition	Capacity	Used	Unused	File
Delete Partition	C:System Reserved	549.00 MB	374.37 MB	174.63 MB	
Eormat Partition	<b>*</b>	50.45.00	21 00 00	37.48 GB	
Copy Partition     Copy Partition			,	< 108.33 GB	
<u> </u>	ending changes?			134.25 GB	
	We strongly recommend you <b>clos</b> you apply the pending changes.	e all other ap	plications	57.93 GB	
⊑]) Set Label —	Yes No			138.25 GB	
🕸 Change Drive Let					• •
Change Partition Type ID				V. V.	
Change Serial Number	Disk 1 C:System I:	(NTFS) J:(NT	FS) E:(NTFS)	F:(FAT32) (	G:(NTFS)
ንተኛ Hide Partition				1 58.8 GB (U	
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🗖 GPT/Primary 🔲 Logical 🔲 Simple	Spanned 🔲 Striped 🔲 N	Airrored 🔲 R	AID5 🔲 Unall	ocated 🕤	<b>9 9</b>



Step 6. Click on **OK** button when the Successful prompt window shows up so as to end this task.

# 65. Initialize to MBR Disk

#### 66.1 About Initialize to MBR Disk

We found an increasing number of users now would like to initialize their disk to MBR, due to the following reasons:

- No UEFI option is offered in BIOS, operating system has to be installed on MBR disk.
- Operating systems like Windows 7 32-bit and Windows Vista 32-bit do not support GPT disk.
- Some programs do not support GPT disk.

However, if users need to mount a second operating system to the GPT disk, they may be disappointed. The reason is simple – common BIOS system doesn't support booting from GPT disk. In this case, users may need to **initialize to MBR disk** sometimes so as to keep both operating systems.

Here, we are going to introduce a good tool - MiniTool Partition Wizard to help with this.

#### 66.2 How to Initialize to MBR Disk

If users don't know how to initialize to MBR disk and never have such experience. Just follow the MiniTool Partition Wizard tutorial we give here to complete disk initialization easily:

Step 1. Enter MiniTool Partition Wizard main interface. And then select Initialize to MBR Disk by

- a. clicking on it under Convert Disk.
- b. choosing it from right-click menu of target disk.
- c. clicking on it from the drop-down menu of **Disk** option in the menu bar.

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pply Undo Discard	Data Reco	very Partition	Recovery Disk Bend	chmark Space Ar	nalyzer			Bootable Media	Manu
Wizard	<ul> <li></li></ul>	Partition	1	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HE     Copy Partition Wizard	) Wizard	🥌 Di	<b>sk 1</b> (VMware, VMw	are Virtual S SAS	, MBR, 500.00 (	GB)			
Copy Disk Wizard		*:Sys	tem Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	hary
		C:		59.46 GB	21.97 GB	37.49 GB	NTFS	Prin	nary
Convert Disk	$\bigcirc$	F:		108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
<ul> <li>Copy Disk</li> <li>Initialize to MBR Disk</li> </ul>	n	E:		134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	ical
Convert GPT Disk to M	IPP Dick	J:		58.85 GB	941.76 MB	57.93 GB	FAT32	🗖 Log	ical
		I:		138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Log	ical
Clean Disk	$\bigcirc$	- c	2 Initialize to MBR	Disk	PT, 256.00 G	6B)			
🖉 Wipe Disk		*.	Copy		0 8	256.00 GB	Unallocate	d 🔲 GPT	-
Check Disk	$\bigcirc$					230.00 GB	onanocate		
Surface Test			M Surface Test						
Partition Recovery		•	Data Recovery						
Disk Properties		0.0	Partition Recove	ry					
🕞 Data Recovery		MBF 500	🖉 Wipe Disk		TFS) 4 GB (Used: (	E:(NTFS) 134.4 GB (Use	J:(FAT32 d: 0%) 58.8 GB (	2) I:(NTFS) (Usi 138.4 GB (Usi	ed: 0%)
0 Operations Pending			Convert GPT Dis	k to MBR Disk					
			Properties						

Step 2. Tap Apply button in the upper left corner to execute pending operations.

eneral	View Disk	Partition Dy	namic Disk Wizard Help					Mini	Τοοι
✓ Apply	← X Undo Discard	d Data Reco	very Partition Recovery Disk Be	nchmark Space A	nalyzer			Bootable Media	Manua
Wizar	rd		Partition	Capacity	Used	Unused	File System	Туре	
	ligrate OS to SSD, Copy Partition Wiza		🛶 Disk 1 (VMware, VM	ware Virtual S SAS	5, MBR, 500.00 (	GB)			
0	Copy Partition wize	aru -	*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prin	nary
_	.,		C:	59.46 GB	21.97 GB	37.49 GB	NTFS	Prin	nary
	ert Disk	٢	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prin	nary
	Copy Disk		E:	134.35 GB	108.23 MB	134.25 GB	NTFS	🗖 Log	ical
_	nitialize to GPT Dis Convert MBR Disk t		J:	58.85 GB	941.76 MB	57.93 GB	FAT32	🗖 Log	ical
			I:	138.36 GB	108.28 MB	138.25 GB	NTFS	🗖 Log	ical
Clean		$\odot$	<b>Disk 2</b> (VMware, VM	ware Virtual S SAS	5, GPT, 256.00 G	B)			
& V	Vipe Disk		*.	256.00 GB	0 B	256.00 GB	Unallocate	d 🗖 Log	ical
Check	Disk	$\odot$		250.00 05	00	230.00 05	ondirocated	. <b>1</b> Cog	icui
6 R	lebuild MBR								
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🔒 P	artition Recovery		Disk 1 MBR System Re		(1977)				
	isk Properties		o o com rec	5 C:(NTFS) F 59.5 GB (Usi 1	:(NTFS) 08.4 GB (Used: (	E:(NTFS) 134.4 GB (Use	d: 0%) J:(FAT32 58.8 GB (	2) I:(NTFS) (Usi 138.4 GB (Usi	ed: 0%)
	ata Recovery								
	<b>erations Pending</b> Initiate Disk 2 to M		MBR 256.00 GB (Unallocate 256.0 GB	d)					
			•						

Step 3. Confirm pending changes by clicking on Yes button in the prompt window.

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oply Undo Discard	Data Recove	ery Partition Recovery Disk Bend	chmark Space An	alyzer			Bootable Media	Manu
Wizard	<ul> <li>^</li> </ul>	Partition	Capacity	Used	Unused	File System	Туре	
Migrate OS to SSD/HD	Wizard	Disk 1 (VMware, VMw	are Virtual S SAS,	, MBR, 500.00 (	GB)			
Copy Partition Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prir	nary
Copy Disk Wizard		C:	59.46 GB	21.97 GB	37.49 GB	NTFS	Prir	nary
Convert Disk	$\odot$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prir	nary
Copy Disk		🟂 Apply Changes?				× NTFS	🗖 Log	ical
Initialize to GPT Disk	INT D: 1	Apply pending chang	jes?			FAT32	🗖 Log	ical
Convert MBR Disk to G		NOTE: We strongly i	recommend vou <b>c</b>	lose all other	applications	NTFS	🗖 Log	ical
Clean Disk	$\odot$	before you apply the						
🖉 Wipe Disk			Yes N	0				
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Rebuild MBR								
Surface Test		•						
Partition Recovery		Disk 1						
Disk Properties		MBR System Res 500.00 GB 549 MB (Use	C:(NTFS) F: 59.5 GB (Us 10	(NTFS) 18.4 GB (Used: 1	E:(NTFS) 134.4 GB (Use	d: 0%) 58.8 GB	2) I:(NTFS) (Usi 138.4 GB (Usi	ed: 0%)
Data Recovery			<u>доого со (со д</u> _с		- <u></u>	<u>, "_</u>	<u>(00)</u> <u>1</u>	
L Operations Pending 		Disk 2 MBR 256.00 GB (Unallocated 256.0 GB	)					

Step 4. Click on **OK** button in the prompt window that will appear automatically at the end of disk initialization.

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oply Undo Discard		Partition Recovery Disk Bend	hmark Space An	alyzer			Bootable Media Ma
Wizard	○ ^ _	Partition	Capacity	Used	Unused	File System	Туре
<ul> <li>Migrate OS to SSD/HD V</li> <li>Copy Partition Wizard</li> </ul>	Vizard	🛶 Disk 1 (VMware, VMw	are Virtual S SAS,	, MBR, 500.00 0	SB)		
Copy Disk Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Primary
,		C:	59.46 GB	21.96 GB	37.50 GB	NTFS	Primary
Partition Management	$\odot$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Primary
Create Partition		E: % Successful			× <sup>4.25 GB</sup>	NTFS	Logical
Wipe Partition		]:			7.93 GB	FAT32	Logical
Check Partition	$\odot$	I: Applie	d all the pending o	changes succes	sfully. 3.25 GB	NTFS	Logical
Surface Test		Dis Dis	ОК				
Partition Properties		*.	256.00 GB	0 B	256.00 GB	Unallocated	Logical
🖴 Data Recovery			200.00 GB	0.0	230.00 GB	Unanocateu	
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		Disk 2 MBR 256.00 GB 256.0 GB	)				

# 66. Initialize to GPT Disk

### 67.1 About Initialize to GPT Disk

Adding new hard disk is regarded as a good way to extend the capacity of the computer. With the fast development of hardware technology, large-capacity hard disks are becoming increasingly common. After a new hard disk with a large capacity is connected to Windows computer, users must initialize it to GPT/MBR in order to use it for data storage.

However, how to finish the disk initialization task easily draws people's attention. What if users would like to initialize it to GPT? Compared to MBR, GPT has some advantages:

- <u>GPT</u> supports at most 128 partitions in Windows, while <u>MBR</u> only supports 4 primary partitions or 3 primary partitions plus 1 extended partition.
- The largest disk capacity that can be managed by GPT mounts to 18EB, while the capacity limit of an MBR disk is only 2TB.

Hot article: MBR VS GPT ( Focus on Difference and How to Convert Safely)

Thus, many users would like to initialize their disk to GPT. As for how to **initialize to GPT disk**, we recommend using MiniTool Partition Wizard. To make the operating process clear, we will give a MiniTool Partition Wizard tutorial. Now, please free download the software and then start to initialize to GPT disk.

#### 67.2 How to Initialize to GPT Disk

Step 1. Choose the disk that users would like to initialize to GPT and then select **Initialize to GPT Disk** by

a. clicking on it under **Convert Disk** from the left action panel.

b. choosing it from right-click menu of target disk.

c. clicking on it from the drop-down menu of **Disk** option in the menu bar.

MiniTool Partition Wizard		namic Disk Wizard Help						□ × Tool
Apply Undo Discard	Data Recov	very Partition Recovery Disk Bench	-	nalyzer			Bootable Media	Manual
Wizard	• • • • • • • • • • • • • • • • • • •	Partition Disk 1 (VMware, VMware)	Capacity are Virtual S SAS	Used 5, MBR, 500.00 (	Unused GB)	File System	Туре	
Copy Partition Wizard Copy Disk Wizard Convert Disk Copy Disk	$\overline{\mathbf{O}}$	*:System Reserved C: F:	549.00 MB 59.46 GB 108.43 GB	374.37 MB 21.97 GB 107.35 MB	174.63 MB 37.49 GB 108.33 GB	NTFS NTFS NTFS	<ul><li>Prima</li><li>Prima</li><li>Prima</li></ul>	ry
Copy Disk     Initialize to GPT Disk     Convert MBR Disk to G     Clean Disk	PT Disk	E: J: <u>I:</u>	134.35 GB 58.85 GB	108.23 MB 941.76 MB 108.28 MB	134.25 GB 57.93 GB 138.25 GB	NTFS FAT32 NTFS	<ul><li>Logica</li><li>Logica</li><li>Logica</li></ul>	al l
Wipe Disk Check Disk	©	*: Copy	Disk	)R, 256.00 ( 0 B	GB) 256.00 GB	Unallocated	Logica	ıl
Surface Test Partition Recovery Disk Properties			,	FS) GB (Used: (	E:(NTFS) 134.4 GB (Use	d: 0%) J:(FAT32) 58.8 GB (U	I:(NTFS) 138.4 GB (Used	; 0%)
<ul> <li>Data Recovery</li> <li>Operations Pending</li> </ul>		Convert MBR Di Disk Properties MBR 256.00 GB 256.0 GB	SK TO GPT DISK					
GPT/Primary 🔲 Logica	al 🔲 Simple		Mirrored 🔲 R	AID5 🔲 Unalle	ocated		•	98

Step 2. Tap Apply in the upper left corner to perform pending operations.

eneral	View	Disk Pa	ntition Dy	namic Dis	k Wizard	Help					Mini	Τοοί
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pply	Undo	Discard	Data Reco	very Par	tition Recov	ery Disk Benc	hmark Space	Analyzer			Bootable Media	Manua
Wizard	ł		$\odot$	Pa	rtition		Capacity	Used	Unused	File System	Туре	
	grate OS t opy Partitio		Wizard	-	Disk 1 (	/Mware, VMw	are Virtual S S.	AS, MBR, 500.00	GB)			
<u> </u>	py Disk W				System Re	eserved	549.00 M	B 374.37 MB	174.63 MB	NTFS	Prir	nary
_				C	:		59.46 G	B 21.97 GB	37.49 GB	NTFS	Prir	nary
Conve			$\odot$	F	-		108.43 G	B 107.35 MB	108.33 GB	NTFS	Prir	nary
	opy Disk itialize to N	ADD Diek		E	8		134.35 G	B 108.23 MB	134.25 GB	NTFS	🗖 Log	ical
	onvert GPT		PR Dick	J	:		58.85 G	B 941.76 MB	57.93 GB	FAT32	🗖 Log	ical
		DISK LO M		I	:		138.36 G	B 108.28 MB	138.25 GB	NTFS	🗖 Log	ical
Clean I			$\odot$		<b>Disk 2</b> ()	/Mware, VMw	are Virtual S S.	AS, MBR, 256.00	GB)			
Ø Wi	ipe Disk						256.00 G		256.00 GB	Unallocate	d 🛛 GP1	
Check	Disk		$\bigcirc$		•		230.00 G	в UВ	200.00 GB	Unanocate	u 🖬 GPI	
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💷 Dis	sk Properti	ies			Disk 1							
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	<b>ations Pe</b> nitiate Disk			-	<b>Disk 2</b> GPT 256.00 GB	(Unallocated) 256.0 GB	)			~		

Step 3. Click **Yes** in the prompt window to allow changes. Users would better close all other applications as suggested.

鰺 MiniTool Partition Wizard	d Pro 11						- 0	ı x
General View Disk P	artition Dyna	amic Disk Wizard Help					Mini To	00/
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Migrate OS to SSD/H		Partition	Capacity	Used	Unused	File System	Туре	
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		C:	59.46 GB	21.97 GB	37.49 GB	NTFS	Primary	
Convert Disk	$\odot$	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Primary	
Copy Disk		🟂 Apply Changes?				× NTFS	Logical	
☑ Initialize to MBR Disk		Apply pending chang	ies?			FAT32	Logical	
○ Convert GPT Disk to N	MBR Disk	NOTE: We strongly r		oso all other	applications	NTFS	Logical	
Clean Disk		before you apply the			applications			
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🔒 Partition Recovery		•						•
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i 1. Initiate Disk 2 to GPT		Disk 2 GPT (Unallocated)	)					
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🔲 GPT/Primary 📃 Logic	al 🔲 Simple	Spanned 🔲 Striped 📃	Mirrored 🔲 RA	ID5 🔲 Unalle	ocated		() y	1 <b>89</b> .::

Step 4. Click on **OK** button at the end of disk initialization.

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ply Undo Discard	Data Recove	ry Partition Recovery Disk Ben	hmark Space An	alyzer			Bootable Media	Man
Vizard	○ ^	Partition	Capacity	Used	Unused	File System	Туре	
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Copy Disk Wizard		*:System Reserved	549.00 MB	374.37 MB	174.63 MB	NTFS	Prim	ary
,		C:	59.46 GB	21.97 GB	37.49 GB	NTFS	Prim	ary
Create Partition	٢	F:	108.43 GB	107.35 MB	108.33 GB	NTFS	Prim	ary
✓ Wipe Partition		E: 💋 Successful			× <sup>1.25 GB</sup>	NTFS	🗖 Logi	cal
		J:	d all the anadian a		7.93 GB	FAT32	🗖 Logi	cal
Check Partition	$\diamond$	I: Transforme	d all the pending c	nanges succes	B.25 GB	NTFS	🗖 Logi	cal
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