How to Shrink a Partition on Your Hard Drive

> shunyi 2014/09/18



# How to Shrink a Partition on Your Hard Drive (Windows)

- Windows 8 / 7 / Vista user
  - Windows 內建工具
- □ Windows XP user
  - EaseUS Partition Master

### **ATTENTION:** backup your data first !

### 注意: 先備份您的重要資料!!!

## Windows 8 / 7 / Vista user (1/4)



## Windows 8 / 7 / Vista user (2/4)

#### □ 在你選擇的磁碟區,按右鍵,選擇"壓縮磁碟區"。

▲ 電腦管理			
檔案(F) 執行(A) 檢視(V) 說明(H)			
🗢 🔿 📶 🚺 🗊 🔂 🗙 📽 🕰 🍳	1		
	┃ 配置 ┃ 類型 ┃ 檔案系統 ┃ 狀態	<u>ل</u>	動作
	簡單 基本 NTFS 良好	子(啟動,分頁檔案,損毀傾印,主要磁碟分割) 7(主要磁碟分割)	磁碟管理 🔺
▶ 🕑 工作拼程器 🔲 (D:) ▶ 🛃 事件檢視器	簡単 基本 INTFS 民災 簡単 基本 RAW 良坂	ナ(主要磁碟分割) 子(主要磁碟分割)	其他動作 🕨
▶ 2	2010ProVLCHT (E:) 簡單 基本 UDF 良奶	· 子(主要磁碟分割)	
▶ 🦣 本機使用者和群組 ●小許的USB (C	) 簡單 基本 FAT32 良奶	子(使用中,主要磁碟分割) 2.3.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	
	間里 荃本 NIFS 民妇	ナ(永統, 12円平, 土安磁媒分割)	
☆ < 立 E 理貝 ▲ (型 左 前 裝 罟			
▷ 🔜 服務與應用程式			
□ 磁碟 0		^	
基本	条統保留 (C:)	(D:)	
1192.34 08	100 MB N   99.90 GB NTFS	(1092.33 GB NTFS) (良好 (主要磁碟分割 開啟(O)	
		瀏覽(E)	
	· · · · ·		ま田市(AA)
			史市十(IVI) 後厥(C)
8.00 GB	(F.) 8.00 GB RAW	愛史磁味(成し)派次) 換ず(上の)	昭1至(0)
連線	良好 (主要磁碟分割)	182016(1)	
		延伸磁碟區(X)	
●磁理 2		壓縮磁碟區(H)	
卸除式	小許的USB (G:)	新增鏡像(A)	
1.91 GB	1.91 GB FAT32	刪除磁碟區(D)	
未配置 ■ 王	そ輕燥分割	內容(P)	
		說明(日)	

## Windows 8 / 7 / Vista user (3/4)

設定想要切割的磁區大小,設定好後按下"壓縮"。 \_ D X 🜆 電腦管理 檔案(F) 執行(A) 檢視(V) 說明(H) 🔶 🧼 🖄 📰 🚺 🗔 🔂 🗙 📽 😂 🔍 😼 🌆 電腦管理 (本機) 磁碟區 配置 類型 檔案系統 狀態 動作 ⊿ 👔 系統工具 良好(啟動,分頁檔案,損毀傾印,主要磁碟分割) 👝 (C:) 簡單 基本 NTFS 磁碟管理 ▷ ○ 工作排程器 👝 (D:) 簡單 基本 NTFS 良好(主要磁碟分割) 其他動作 ٠ 良好 (主要磁碟分割) ▷ 🔝 事件檢視器 (F:) 簡單 基本 RAW 21 X16-76779VS2010ProVLCHT (E:) 簡單 基本 UDF ▷ 📷 共用資料夾 良好(主要磁碟分割) 小許的USB (G:) 良好 (使用中,主要磁碟分割) 簡單 基本 FAT32 ▷ 🌆 本機使用者和群組 □● 系統保留 簡單 基本 NTFS 良好(系統,使用中,主要磁碟分割) ▶ 🔊 效能 🚑 裝置管理員 X 壓縮 D: ⊿ 🖳 存放裝置 📄 磁碟管理 1118550 壓縮前 MB 總計: ▷ 🔜 服務與應用程式 780629 可用壓縮空間 MB 總計 輸入要壓縮的空間大小 (MB)(E) 30000 -1088550 壓縮後 MB 總計: ① 壓縮磁碟區不能超過任何無法移動檔案所在的位置。如需已完成操作的詳細 資訊,請參閱應用程式記錄檔中的 "defrag" 事件。 4 □磁碟 0 基本 如需詳細資訊,諸參閱「磁碟管理」說明中的壓縮基本磁碟區。 1192.34 G 連線 壓縮(S) 取消(C) □ 磁碟 1 基本 (F:) 8.00 GB 8.00 GB RAW 連線 良好(主要磁碟分割) ■磁碟 2 卸除式 小許的USB (G:) 1.91 GB 1.91 GB FAT32 ■ 未配置 ■ 主要磁碟分割

## Windows 8 / 7 / Vista user (4/4)

### 回到磁碟管理的視窗, 會在D磁區的後方, 看見已經切割 出來的磁區空間。



7

## XP user (1/5)

#### □ Install EaseUS Partition Master.

• http://www.partition-tool.com/landing/home-download.htm

**EaseUS**<sup>®</sup> Make your life easy! Store Products -Download Search Q Support Enjoy more features in advanced edition, Save 20% Cost-effective Bundle **Partition Master** Partition Master Partition Master **Features** Professional Free Server Partition Master Pro + Todo Backup Workstation Resize partition (Faster speed) (Faster speed) Merge partitions Par Todo Backup Resize dynamic volume WinPE 3.0 bootable disk **Business usage** Free tech support service \$47.37 \$78.95 Support Windows Server **Buy Now** 2003/2008/2012 \$31.96 \$39.95 \$127.20 \$159 Free Download

#### Awards and Review



"It is a full-featured disk partition manager, which can not only format and partition drives but repartition them"

#### **Customer Says**

"Thank You!!! It was so user friendly and I really appreciate your expertise.." --Stephen

"Good day. Thank you very much for an excellent program. The program is great and excellent."

#### **Our Clients**



## XP user (2/5)

#### □ Select D: drive

- Right click
- Select "Resize/Move partition".

🈻 EASEUS Partition Master Ho	me Edition - I	iree	For Home Users						
🥡 General 🔻 🔚 View 💌	🌖 Partitions	•	🧔 <u>W</u> izard 🔻 [ Adv	vanced 🔻 🔷 <u>H</u> elp	•			EA	SEUS
Undo Redo Apply Refresh	Esize/Move	× Dele	e Merge Format Copy			Join our newsletter	Bootable CD	Backup tool	🥩 Upgrade
Operations 🔗	Partition		File System	Capacity	Used	Unused	Status	Туре	
😫 Resize/Move partition	🖂 Disk 1 (M	BR)							*
Copy partition	C: WinXP		NTFS	31.86 GB	25.47 GB	6.39 GB	System	Primary	
🔀 Merge partition	*		Unallocated	10.31 MB	0 Bytes	10.31 MB	None	Logical	
🚔 Convert to logical	🖂 Disk 2 (M	BR)							^
Change label	D:新增磁		NTCC	232.88 GB	71.75 MB	232.81 GB	None	Primary	
🖄 Change drive letter		<u></u>	Resize/Move partition						
🔄 Defragment			Copy partition						
📇 Set active		×.	Merge partition						
Check partition		~							
Hide partition									
M Delete partition		@1	Change label						
Format partition		2	Change drive le <u>t</u> ter						
Wipe partition		Ð	Defragment						
Explore partition		4	Set <u>a</u> ctive						
View properties		X	Check partition						
			Hide partition						
Tools ~			Delete Partition						
Notable CD	Disk1	<u></u>							
	Basic MBR 31.87 GB	2	Format partition						
Pending Operations 🔗			Wipe partition						
	📑 Disk2	A	Explore partition						
	Basic MBR	<u> </u>	⊻iew properties						
	232.89 GB								
	🚺 Primary 📃	Una	located						
Resize/Move the selected partition.									

## XP user (3/5)

#### $\Box \quad \text{Click "OK".}$

🤣 Resize/Move partition				X
🚔 Please specify the size an	d the locatio	on for the nev	v partition.	
Decide size and position				
				]
238472MB				J
Unallocated	Space B <u>e</u> fore:	0.0	* MB	
Partition <u>S</u> ize	е:	1β8472.7	* MB	
Unallocated	Space <u>A</u> fter:	0.0	* MB	
Cluster Size	:	4K	Ŧ	
Disk2 Basic MBR 232.89 GB D: 新增磁碟區 (NTF 232.88 GB	S)			
AWe recommend you back	up the data wit	h <u>EASEUS Todo B</u>	<u>ackup</u> before ope	ration.
Help			<u>o</u> ĸ	⊆ancel

## XP user (4/5)

#### □ Click "Apply".

🧐 EASEUS Partition Master Ho	ome Edition - Free For Home	Users					_	
🜠 General 🔻 🔚 <u>V</u> iew 🔻	🌖 Partitions 🔻 🏹 <u>W</u> iza	rd 🔻 [] <u>A</u> dvand	ced 🔻 🔷 <u>H</u> elp	•			EA	SEUS
Undo Redo Apply Refresh	Resize/Move Delete Merge	Format Copy			Join our newsletter	GG Bootable CD	Backup tool	🥩 Upgrade
Operations 🛛 🕆	Partition	File System	Capacity	Used	Unused	Status	Туре	
😫 Resize/Move partition	금 Disk 1 (MBR) ———							*
Copy partition	C: WinXP	NTFS	31.86 GB	25.52 GB	6.34 GB	System	Primary	
Merge partition	*	Unallocated	10.31 MB	0 Bytes	10.31 MB	None	Logical	
Convert to logical	🖂 Disk 2 (MBR) ———							^
Change label	F:新增磁碟區	NTFS	135.23 GB	71.74 MB	135.16 GB	None	Primary	
Change drive letter	*	Unallocated	97.66 GB	0 Bytes	97.66 GB	None	Logical	
		Apply Changes		$\mathbf{X}$				
Eormat partition			aration is surrantly pan	dina				
Wipe partition			ly the change now?	ioing.				
A View properties		Shut down the com	puter after changes are	applied.				
Tools		Yes	No					
😙 Bootable CD		<u> </u>	_					
Pending Operations								
Resize/Move partition (F:) on Disk2	Disk1 Basic MBR 31.87 GB	(NTFS)						
	<b>Disk2</b> Basic MBR 232.89 GB	業區 (NTFS)			Unallocated 97.66 GB			
We recommend closing all other appli	Primary Unallocated     cations while running EASEUS Day	tition Master						

## XP user (5/5)

🈻 EASEUS Partition Master Ho	ome Edition - Free For Home	Users						
🚺 General 🔻 🔚 <u>V</u> iew 💌	🍓 <u>P</u> artitions 🔻 🧔 <u>W</u> iza	ard 🔻 [ 🔓 <u>A</u> dvan	ced 🔻 🔷 <u>H</u> elp	•			EA	SEUS
Undo Redo Apply Refresh	Esize/Move Delete Merge	Format Copy			Join our newsletter	Go Bootable CD	A Backup tool	🥩 Upgrade
Operations 🔗	Partition	File System	Capacity	Used	Unused	Status	Туре	
<ul> <li>Resize/Move partition</li> <li>Copy partition</li> <li>Merge partition</li> </ul>	Disk 1 (MBR) C: WinXP	NTFS	31.86 GB	25.47 GB	6.39 GB	System	Primary	
Convert to logical	♪ Disk 2 (MBR)	Unallocated	10.31 MB	U Bytes	10.31 MB	None	Drimory	≈
<ul> <li>Change drive letter</li> <li>Set active</li> <li>Hide partition</li> <li>Delete partition</li> <li>Format partition</li> <li>Wipe partition</li> <li>View properties</li> </ul>	*	Unallocated	97.66 GB	0 Bytes	97.66 GB	None	Logical	
Pending Operations Resize/Move partition (D:) on Disk2	Disk1 Basic MBR 31.87 GB	(NTFS)				_		
We recommend closing all other appli	Disk2 Basic MBR 232.89 GB Primary Unallocated ications while running EASEUS Par	揲匾 (NTFS) } tition Master.			Unallocated 97.66 GB			

## GParted Live USB

# How to Shrink a Partition on Your Hard Drive (GParted Live USB)

- GUI
  - GParted

**ATTENTION:** backup your data first !

### 注意: 先備份您的重要資料!!!

## GParted Live USB (1/4)

- $\Box \quad How to install?$ 
  - Download gparted-live-0.19.1-4-i486.iso
    - http://downloads.sourceforge.net/gparted/gpartedlive-0.19.1-4-i486.iso
  - For GNU/Linux & Mac User
    - Open Terminal
    - \$ sudo dd if=/path-to-gparted-live-0.19.1-4-i486. iso of=/dev/sdx bs=4M; sync
  - For Windows User
    - □ Choose one to create bootable Live USB
      - Tuxboot
      - Unetbootin
      - □ LinuxLive USB Creator

## GParted Live USB (2/4)

# Open GParted Click the disk you want to shrink and click Resize/Move

ResizeMove	Copy Paster Undo Appty			/dev/hda (76.33 Gi8
		/dev.ħda1 74.26 GiB		
Filesystem	Size	Used	Unused	Flags
ext3	74.26 GiB	3.50 GiB	70.76 GiB	boot
extended	2.07 G/B	-	9	
linux-swap	2.07 Gib	-	1	
	Pilesystem ext3 extended how-swap	Resize How Cop Passe Undo Apply Plesystem Suze ex3 74.26 GiB extended 2.07 GiB Insue-swap 2.07 GiB	Resized tive Copy Paster Undo Apply /dev/bda1 74.26 G/B Pilesystem Suze Used Used ext3 74.26 G/B 150 G/B extended 2.07 G/B Innx-swap 2.07 G/B	Resize Alive         Corv         Paste         Undo         Accev           Idex/hds1 74.25 G/B         74.25 G/B         Used         Usesed           ext3         74.26 G/B         3.50 G/B         70.76 G/B           extended         2.07 G/B         —         —           bears-swap         2.07 G/B         —         —

## GParted Live USB (3/4)

Drag the black arrow to shrink then click Resize/Move button

New Delete	Resize/Move	Copy Paster Unida Activy			🗿 /dev/bda (76.33 Gil
		*****	/dev.6da1 74.26 GiB	*****	
wrb/bion	Filesystem	Size	Used	Unused	Flags
Mey/fida3	estl	74.26 G/B	159 G-B	70 76 G	di hout
/dev/hda2	extended	2.07 GiB	14		-
/dev/hda5	linux-swap		Re	size.Move /dev/hda1 🚐 🗙	50 E
		New 5 Free 5	Nee (MdB): [76042] Space Following (MiB): 0	3 3 ment 1 abit concentrated	
spectations pend	ing		<u></u>		
servitions pend	ing	AlexAda - GParted			

## GParted Live USB (4/4)

#### □ Then you will see a new & unallocated space

					and the second se
GPaned Edn	yew Device (	Bartsion Help			
New Delet	Resize Move	Copy Paster Undo Apply			dev/hda (76.33 G/8)
/dev/hd 11.74 G	al 6		unaflocated 62.52 GiB		
Partition	Filesystem	Size	Used	Unused	Flags
/dev/hda3	ext3	11.74 G/B	3.50 G/B	8.23 GiB b	of.
anabogated.	analise and	62.52 GiB	-	-	
/dev/hda2	extended	2.07 Gi8		-	
/dev/hda5	Inux-swap	2.07 GiB	14 C	-	
<b>1</b> Move (dev)bd	al to the left and sh	brink it from 74 26 GiB to 11.74 GiB	.0000		
Move /dev/bd	al to the left and sh	brink it from 74 26 GiB to 11.74 GiB	.0000		

## Appendix

Commands for <u>Disk Partitioning</u>

- □ gpart (recommend on FreeBSD)
- □ parted
- gdisk
- □ cgdisk
- sgdisk
- fdisk
- □ cfdisk
- sfdisk

## References

- □ How to Shrink a Partition on Your Hard Drive
  - <u>http://tips4pc.com/format%20your%</u> <u>20computer/how to shrink a partition on you.htm</u>
- EaseUS
  - □ <u>http://www.easeus.com/</u>
- □ 如何調整Windows 8的磁碟分割區?
  - 7club.ithome.com.tw/index.php/article/10036527/1
- GParted Live on USB
  - <u>http://gparted.org/liveusb.php</u>
- Modify Your Partitions With GParted Without Losing Data
  - <u>http://www.howtoforge.</u>
    <u>com/partitioning\_with\_gparted</u>