

# Exemplo de Particionamento dun disco duro

## Exemplo de Particionamento dun disco duro

A continuación imos ver un exemplo dun disco duro particionado e como se amosa en distintos programas de particionamento. O disco duro estará particionado do seguinte xeito:

- 8 particións.
- As particións 1, 2, 3 e 4 -como indican os seus números- a priori son primarias xa que pode existir 1 estendida.
- A partición 3 será estendida.
- As particións 5, 6, 7, e 8 -como indican os seus números- son lóxicas.

◊ Exemplo: Programa de particionamento fdisk(Gnu/Linux)

```
root@sysresccd /root % fdisk /dev/sda

Command (m for help): p

Disk /dev/sda: 2147 MB, 2147483648 bytes
255 heads, 63 sectors/track, 261 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
Disk identifier: 0x00000000

   Device Boot      Start         End      Blocks    Id  System
/dev/sda1  *           1           24      192748+    7  HPFS/NTFS
/dev/sda2             25           54       240975    7  HPFS/NTFS
/dev/sda3             55          176      979965    5  Extended
/dev/sda4          177          261      682762+    c  W95 FAT32 (LBA)
/dev/sda5             55           78      192748+   83  Linux
/dev/sda6             79          127      393561    83  Linux
/dev/sda7            128          139       96358+   82  Linux swap / Solaris
/dev/sda8            140          176      297171    83  Linux

Command (m for help): _
```

◊ Exemplo: Programa de particionamento cfdisk(Gnu/Linux)

cdisk (util-linux-ng 2.13.1.1)

Disk Drive: /dev/sda  
Size: 2147483648 bytes, 2147 MB  
Heads: 255 Sectors per Track: 63 Cylinders: 261

Name	Flags	Part Type	FS Type	[Label]	Size (MB)
sda1	Boot	Primary	NTFS		197.41
sda2		Primary	NTFS		246.76
sda5		Logical	Linux		197.41
sda6		Logical	Linux		403.04
sda7		Logical	Linux swap / Solaris		98.71
sda8		Logical	Linux		304.34
sda4		Primary	W95 FAT32 (LBA)		699.15

[Bootable] [ Delete ] [ Help ] [Maximize] [ Print ]  
[ Quit ] [ Type ] [ Units ] [ Write ]

Toggle bootable flag of the current partition\_

◇ Exemplo: Programa de particionamento parted(Gnu/Linux)

```
root@sysresccd /root % parted /dev/sda
GNU Parted 1.8.8
Using /dev/sda
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) print
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 2147MB
Sector size (logical/physical): 512B/512B
Partition Table: msdos

Number  Start   End     Size    Type     File system  Flags
  1      32.3kB  197MB   197MB   primary          boot
  2      197MB   444MB   247MB   primary
  3      444MB   1448MB  1003MB  extended
  5      444MB   642MB   197MB   logical
  6      642MB   1045MB  403MB   logical
  7      1045MB  1143MB  98.7MB  logical
  8      1143MB  1448MB  304MB   logical
  4      1448MB  2147MB  699MB   primary          lba

(parted) _
```

◊ Exemplo: Programa de particionamento gparted(Gnu/Linux) co disco duro sen sistemas de ficheiros formateados.

## Terminal

File Edit View Terminal Go Help



```
root@sysresccd /root % gparted /dev/sda
```

```
=====
libparted : 1.8.8
=====
```

## /dev/sda - GParted

GParted Edit View Device Partition Help



/dev/sda (2.00 TiB)

	/dev/sda2 235.33 MiB		/dev/sda6 384.34 MiB		/dev/sda8 290.21 MiB	/dev/sda4 666.76 MiB
--	-------------------------	--	-------------------------	--	-------------------------	-------------------------

Partition	Filesystem	Size	Used	Unused	Flags
/dev/sda1	unknown	188.23 MiB	---	---	boot
/dev/sda2	unknown	235.33 MiB	---	---	
▼ /dev/sda3	extended	957.00 MiB	---	---	
/dev/sda5	unknown	188.23 MiB	---	---	
/dev/sda6	unknown	384.34 MiB	---	---	
/dev/sda7	unknown	94.10 MiB	---	---	
/dev/sda8	unknown	290.21 MiB	---	---	
/dev/sda4	unknown	666.76 MiB	---	---	lba

0 operations pending

♦ Exemplo: Programa de particionamento gparted(Gnu/Linux) co disco duro con sistemas de ficheiros formateados.

Terminal

File Edit View Terminal Go Help

root@sysresccd /root % gparted /dev/sda  
=====

libparted : 1.8.8  
=====

/dev/sda - GParted

GParted Edit View Device Partition Help

/dev/sda (2.0

/dev/sda2  
235.33 MiB

/dev/sda6  
384.34 MiB

/dev/sda8  
290.21 MiB

/dev/sda4  
666.76 MiB

Partition	Filesystem	Size	Used	Unused	Flags
/dev/sda1	ntfs	188.23 MiB	2.45 MiB	185.78 MiB	boot
/dev/sda2	ntfs	235.33 MiB	1.62 MiB	233.70 MiB	
▼ /dev/sda3	extended	957.00 MiB	---	---	
/dev/sda5	reiserfs	188.23 MiB	32.13 MiB	156.11 MiB	
/dev/sda6	reiserfs	384.34 MiB	32.11 MiB	352.22 MiB	
/dev/sda7	linux-swap	94.10 MiB	---	---	
/dev/sda8	reiserfs	290.21 MiB	32.10 MiB	258.10 MiB	
/dev/sda4	fat32	666.76 MiB	1.32 MiB	665.44 MiB	lba

0 operations pending



◊ Ejemplo: Programa de particionamento qtparted(Gnu/Linux) co disco duro con sistemas de ficheiros formateados.

root@1[knoppix]# qtparted /dev/sda

qtparted v0.4.5-cvs

Fichero Operaciones Discos Dispositivo Opciones Ayuda

Se han detectado los siguientes discos:

Dispositivo: /dev/hda

Discos: /dev/hda

**Información del disco**

Dispositivo: /dev/hda  
 Modelo: VBOX HARDDISK  
 Capacidad (Mb): 2048  
 Longitud en sectores: 4194304  
 Estado: ocupado.

Número	Partición	Tipo	Estado	Tamaño	Espacio usado
01	/dev/hda1	ntfs	Activa	188.23MB	10.45
02	/dev/hda2	ntfs		235.33MB	9.62
03	/dev/hda3	extended		957.00MB	No disponib
04	/dev/hda5	reiserfs		188.23MB	32.07
05	/dev/hda6	reiserfs		384.34MB	32.07
06	/dev/hda7	linux-swap		94.10MB	0.00
07	/dev/hda8	reiserfs		290.21MB	32.07
08	/dev/hda4	fat32		666.76MB	32.15

QTParted :) | (C) 2002-2003 by Zanic / (C) 2005 Ark Linux |

◊ Ejemplo: Programa de particionamento ranish partition manager.

Ranish Partition Manager Version 2.44 (beta) by Muthu June 09, 2002

Hard Disk 1 2,048 Mbytes 520 cylinders x 128 heads x 63 sectors 1  
 Using LBA

#	Type	Row	File System Type	Starting Cyl	Starting Head	Starting Sect	Ending Cyl	Ending Head	Ending Sect	Partition Size [KB]	Problems ↓
0	MBR		Master Boot Record	0	0	1	0	0	1	0	
1	Pri		Unused	0	0	2	0	0	63	31	
2	*Pri	1	Windows NT NTFS	0	1	1	47	103	63	192,748	
3	Pri	2	Windows NT NTFS	47	104	1	107	73	63	240,975	
4	Pri	3	Extended	107	74	1	350	79	63	979,965	
5	Log		Linux ext2fs	107	75	1	155	49	63	192,748	
6	Ext		Extended	155	50	1	253	0	63	393,592	
7	Log		Linux ext2fs	155	51	1	253	0	63	393,561	

ENTER - Edit options S - Save MBR to file L - Load MBR from file

MBR

#	Partition	Size	MBR Executable code:
1	*NTFS	188	Unknown IPL
2	NTFS	235	Boot interface type: Compact
3	Extended	956	Check for viruses: Yes
4	FAT-32	666	Boot prompt timeout: 6
			Default boot choice: Not set

F1 Help F2 Save = F3 Undo = F4 Mode = F5 Disk ESC Quit

Free FDISK Version 1.2.1  
Fixed Disk Setup Program  
GNU GPL Copyright Brian E. Reifsnyder 1998 - 2003

FDISK Options

Current fixed disk drive: 1

Choose one of the following:

1. Create DOS partition or Logical DOS Drive
2. Set Active partition
3. Delete partition or Logical DOS Drive
4. Display partition information

Enter choice: [1]

Press Esc to exit FDISK

Display Partition Information

Current fixed disk drive: 1

Partition	Status	Type	Volume Label	Mbytes	System	Usage
1	A	Non-DOS		185	NTFS	9%
2		Non-DOS		236	NTFS	12%
3		EXT DOS		957	Extended	47%
C: 4		PRI DOS		665	FAT32 L	32%

Total disk space is 2051 Mbytes (1 Mbyte = 1048576 bytes)

Press Esc to continue

**Acronis Disk Director Suite**

Disk View Operations Wizards Help

**Wizards**

- Create Partition
- Increase Free Space
- Copy Partition
- Recover Partitions

**Operations**

**Advanced**

**Details**

**NTFS (C:)**

NTFS

File System: NTFS

- Used Space: 2.4 MB
- Free Space: 185.8 MB
- Total Size: 188.2 MB

Partition	Flags	Capacity	Free Space	Type
<b>Disk 1</b>				
NTFS (C:)	Pri,Act	188.2 MB	185.8 MB	NTFS
NTFS (D:)	Pri	235.3 MB	233.7 MB	NTFS
ReiserFS		188.2 MB	156.1 MB	ReiserFS
ReiserFS		384.3 MB	352.2 MB	ReiserFS
Linux Swap		94.1 MB		Linux Swap
ReiserFS		290.2 MB	258.1 MB	ReiserFS
FAT32 (E:)	Pri	666.8 MB	665.4 MB	FAT32 (LBA)
Unallocated		157.5 KB		Unallocated

2 GB
 C: 188....
 D: 235....
 188....
 384.3 M...
 9...
 290.2 ...
 E: 666.8 MB

Primary
 Logical
 Unallocated

NTFS Free Space:185.8 MB Total Size:188.2 MB

◇ Exemplo: Programa de particionamento partition resizer.

The Partition Resizer v. 1.3.4 (c) Zeleps 1994-2000

1. Resize/Move a partition
2. Change a FAT16 partition's cluster size (Destructive)
3. Partition information
4. Exit

Please make your choice

--ricardofc 14 nov 2008