

# Repair BSOD/Raw partition [WinServer]

Boots into the rescue:

## Step 1: Check if you can mount the windows partition on a windows live cd

If you are unable run: "chkdsk C: /f"

If you see this error go to **Step 2**, if you do not, keep googling, this page is not for you.

```
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Windows\system32>chkdsk H: /f
The type of the file system is RAW.
CHKDSK is not available for RAW drives.

C:\Windows\system32>_
```

## Step 2: Boot in rescue and install testdisk

Run testdisk, select "no log"

```
TestDisk 6.14, Data Recovery Utility, July 2013
Christophe GRENIER <grenier@cgsecurity.org>
http://www.cgsecurity.org

TestDisk is free data recovery software designed to help recover lost
partitions and/or make non-booting disks bootable again when these symptoms
are caused by faulty software, certain types of viruses or human error.
It can also be used to repair some filesystem errors.

Information gathered during TestDisk use can be recorded for later
review. If you choose to create the text file, testdisk.log , it
will contain TestDisk options, technical information and various
outputs; including any folder/file names TestDisk was used to find and
list onscreen.

Use arrow keys to select, then press Enter key:
 [ Create ] Create a new log file
 [ Append ] Append information to log file
 >[ No Log ] Don't record anything
```

Select windows Drive

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```

TestDisk is free software, and  
comes with ABSOLUTELY NO WARRANTY.

Select a media (use Arrow keys, then press Enter):

```
>Disk /dev/sda - 1000 GB / 931 GiB - WDC WD1003FBYX-01Y7B1
Disk /dev/sdb - 1000 GB / 931 GiB - WDC WD1003FBYX-01Y7B1
Disk /dev/mapper/live-osimg-min - 4294 MB / 4096 MiB (RO)
Disk /dev/mapper/live-rw - 4294 MB / 4096 MiB
Disk /dev/dm-0 - 4294 MB / 4096 MiB
Disk /dev/dm-1 - 4294 MB / 4096 MiB (RO)
```

```
>[Proceed ] [ Quit ]
```

Note: Disk capacity must be correctly detected for a successful recovery.  
If a disk listed above has incorrect size, check HD jumper settings, BIOS  
detection, and install the latest OS patches and disk drivers.

## Select Intel

```
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```

```
Disk /dev/sda - 1000 GB / 931 GiB - WDC WD1003FBYX-01Y7B1
```

Please select the partition table type, press Enter when done.

```
>[Intel ] Intel/PC partition
[EFI GPT] EFI GPT partition map (Mac i386, some x86_64...)
[Humax ] Humax partition table
[Mac ] Apple partition map
[None ] Non partitioned media
[Sun ] Sun Solaris partition
[XBox ] Xbox partition
[Return] Return to disk selection
```

Hint: **Intel** partition table type has been detected.

Note: Do NOT select 'None' for media with only a single partition. It's very  
rare for a drive to be 'Non-partitioned'.

## Select Analyse

```
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http://www.cgsecurity.org
```

```
Disk /dev/sda - 1000 GB / 931 GiB - WDC WD1003FBYX-01Y7B1  
CHS 121601 255 63 - sector size=512
```

```
>[ Analyse ] Analyse current partition structure and search for lost partitions  
[ Advanced ] Filesystem Utils  
[ Geometry ] Change disk geometry  
[ Options ] Modify options  
[ MBR Code ] Write TestDisk MBR code to first sector  
[ Delete ] Delete all data in the partition table  
[ Quit ] Return to disk selection
```

```
Note: Correct disk geometry is required for a successful recovery. 'Analyse'  
process may give some warnings if it thinks the logical geometry is mismatched.
```

Run a quick scan

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<http://www.cgsecurity.org>

Disk /dev/sda - 1000 GB / 931 GiB - CHS 121601 255 63

Current partition structure:

Partition	Start	End	Size in sectors
1 * HPFS - NTFS	0 32 33	44 190 18	716800 [System Reserved]
2 P HPFS - NTFS	44 190 19	121601 25 24	1952802816

\*=Primary bootable P=Primary L=Logical E=Extended D=Deleted

>[Quick Search] [ Backup ]

Try to locate partition

Press enter

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Disk /dev/sda - 1000 GB / 931 GiB - CHS 121601 255 63
  Partition      Start      End      Size in sectors
>* HPFS - NTFS   0 32 33   44 190 18   716800 [System Reserved]
 P HPFS - NTFS   44 190 19 121601 25 24 1952802816

Structure: Ok. Use Up/Down Arrow keys to select partition.
Use Left/Right Arrow keys to CHANGE partition characteristics:
*=Primary bootable P=Primary L=Logical E=Extended D=Deleted
Keys A: add partition, L: load backup, T: change type, P: list files,
      Enter: to continue
NTFS, blocksize=4096, 367 MB / 350 MiB
```

Select write, press enter

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Disk /dev/sda - 1000 GB / 931 GiB - CHS 121601 255 63

Partition	Start	End	Size in sectors
1 * HPFS - NTFS	0 32 33	44 190 18	716800 [System Reserved]
2 P HPFS - NTFS	44 190 19	121601 25 24	1952802816

[ Quit ] [Deeper Search] >[ Write ]  
Write partition structure to disk

Confirm with Y

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<http://www.cgsecurity.org>

Write partition table, confirm ? (Y/N)

Then reboot

**Step 3: If the Drive letter you booted on comes back with the incorrect drive letter, run taskmgr on the booted server, start regedit:**

Locate the following registry key:

HKEY\_LOCAL\_MACHINE\SYSTEM\MountedDevices

Find the drive letter you want to change to (new). Look for "\DosDevices\C:".

Right-click \DosDevices\C:, and then click Rename.

Rename it to an unused drive letter "\DosDevices\Z:".

This frees up drive letter C.

Find the drive letter you want changed. Look for "\DosDevices\D:".

Right-click \DosDevices\D:, and then click Rename.

Rename it to the appropriate (new) drive letter "\DosDevices\C:".

open a CMD:

**bootsect /nt60 ALL /mbr**

**bcdboot c:\windows**

Reboot Again

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Revision #1

Created 17 July 2019 17:31:34 by Dave

Updated 17 July 2019 17:46:10 by Dave