

TESTDISK “DATA COPY FROM DAMAGED STORAGE”

Note : on this case using testdisk on damaged(detect/undetected can't mount on GUI) internal hdd storage 500 GB

1. mount your storage and run testdisk as root (in this case on /dev/sda)

```
root@mrX: /home/padli# fdisk -l
Disk /dev/sda: 465,8 GiB, 500107862016 bytes, 976773168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0xbfadf573

Device Boot      Start         End      Sectors  Size Id Type
/dev/sda1 *        2048       206847       204800    100M  7 HPFS/NTFS/exFAT
/dev/sda2          206848    307202047    306995200    146,4G  7 HPFS/NTFS/exFAT
/dev/sda3          307202048    976771071    669569024    319,3G  7 HPFS/NTFS/exFAT

Disk /dev/sdb: 931,5 GiB, 1000204886016 bytes, 1953525168 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 4096 bytes
I/O size (minimum/optimal): 4096 bytes / 4096 bytes
Disklabel type: dos
Disk identifier: 0xaf8b4c18

Device Boot      Start         End      Sectors  Size Id Type
/dev/sdb1 *        2048       206847       204800    100M  7 HPFS/NTFS/exFAT
/dev/sdb2          206848    307199999    306993152    146,4G  7 HPFS/NTFS/exFAT
/dev/sdb3          307200000    1126399999    819200000    390,6G  7 HPFS/NTFS/exFAT
/dev/sdb4          1126400000    1953521093    827121094    394,4G  83 Linux
root@mrX: /home/padli# testdisk
```

2. create log file

```
Terminal File Edit View Search Terminal Help
TestDisk 7.0, Data Recovery Utility, April 2015
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
```

3. select & proceed the disk

```
root@mrX: /home/padli
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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 - 500 GB / 465 GiB - ST500LT012-9WS142
Disk /dev/sdb - 1000 GB / 931 GiB - WDC WD10EZEX-00WN4A0

>[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.

4. select partition table

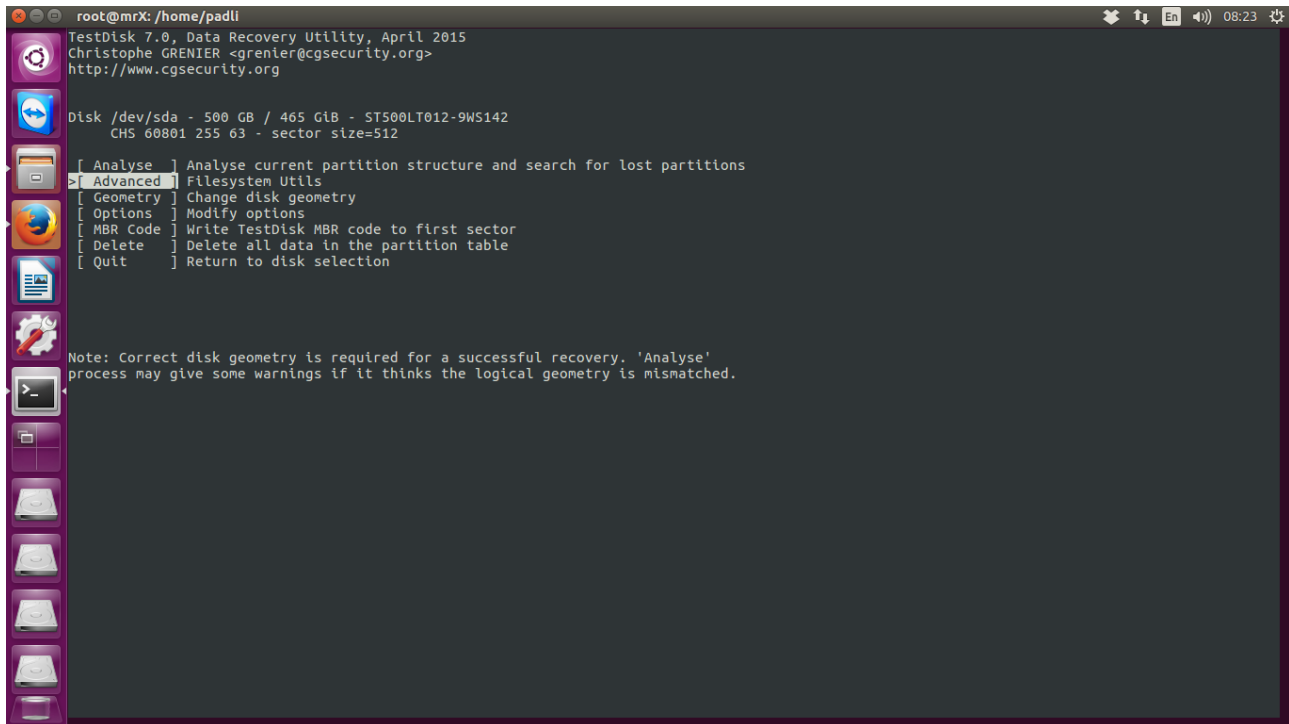
```
root@mrX: /home/padli
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http://www.cgsecurity.org

Disk /dev/sda - 500 GB / 465 GiB - ST500LT012-9WS142

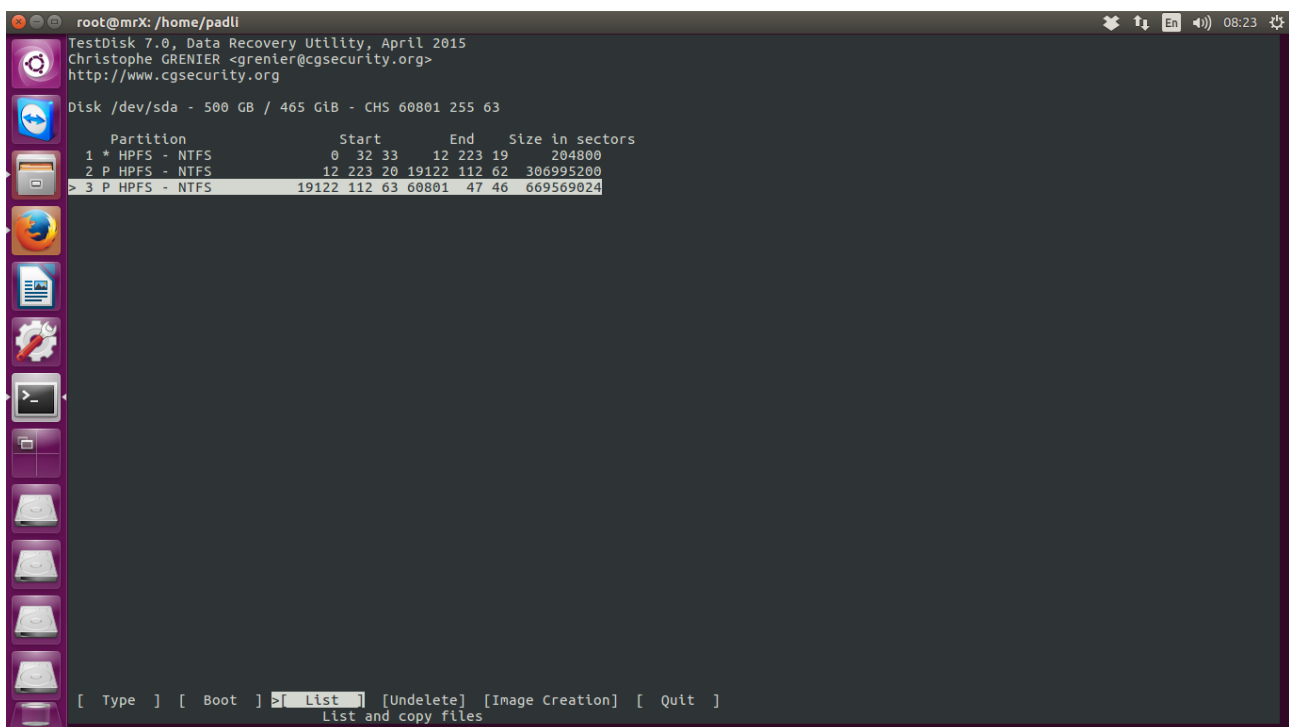
Please select the partition table type, press Enter when done.
>[Intel] Intel/PC partition
[EFI GPT] EFI GPT partition map (Mac i386, some x86_64...)
[Humax] Humax partition table
[Mac] Apple partition map
[None] Non partitioned media
[Sun] Sun Solaris partition
[XBox] Xbox partition
[Return] Return 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 disk to be 'Non-partitioned'.
```

5. select advanced menu



6. select partition

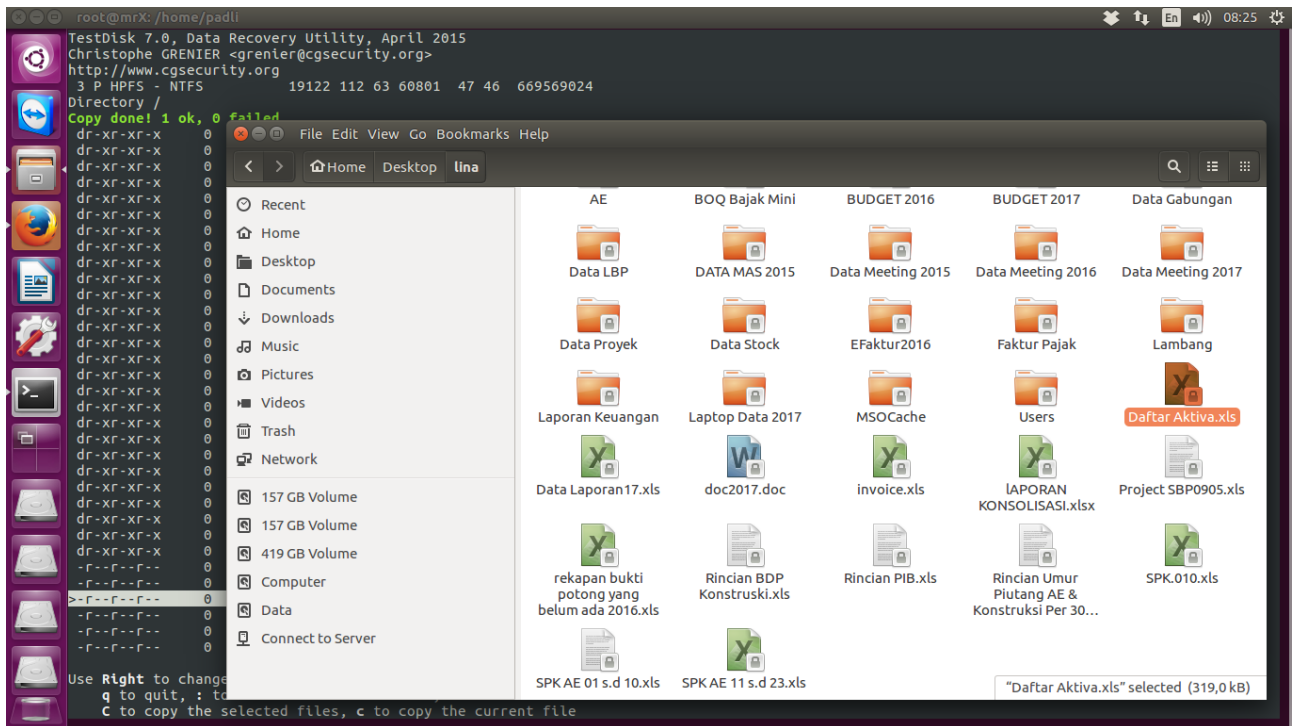


7. select file to copy

```
root@mrX: /home/padli
TestDisk 7.0, Data Recovery Utility, April 2015
Christophe GRENIER <grenier@cgsecurity.org>
http://www.cgsecurity.org
3 P HPFS - NTFS 19122 112 63 60801 47 46 669569024
Directory /
dr-xr-xr-x 0 0 0 23-Jun-2017 08:03 .
dr-xr-xr-x 0 0 0 23-Jun-2017 08:03 ..
dr-xr-xr-x 0 0 0 24-Jul-2014 14:16 $RECYCLE.BIN
dr-xr-xr-x 0 0 0 3-May-2017 12:04 BOQ Bajak Mini
dr-xr-xr-x 0 0 0 2-Mar-2017 09:04 BUDGET 2016
dr-xr-xr-x 0 0 0 9-Jun-2017 11:04 BUDGET 2017
dr-xr-xr-x 0 0 0 27-May-2017 11:15 DATA 2017
dr-xr-xr-x 0 0 0 22-Dec-2016 15:21 DATA MAS 2015
dr-xr-xr-x 0 0 0 12-May-2017 10:12 Data Gabungan
dr-xr-xr-x 0 0 0 3-Jun-2017 12:22 Data LBP
dr-xr-xr-x 0 0 0 26-Feb-2016 10:52 Data Meeting 2015
dr-xr-xr-x 0 0 0 19-Jun-2017 11:53 Data Meeting 2016
dr-xr-xr-x 0 0 0 6-Apr-2017 11:47 Data Meeting 2017
dr-xr-xr-x 0 0 0 7-Jun-2017 15:26 Data Proyek
dr-xr-xr-x 0 0 0 27-Apr-2017 09:05 Data Stock
dr-xr-xr-x 0 0 0 22-Dec-2016 15:15 EFaktur2016
dr-xr-xr-x 0 0 0 20-Jun-2017 12:40 Faktur Pajak
dr-xr-xr-x 0 0 0 12-May-2017 10:36 Laporan Keuangan
dr-xr-xr-x 0 0 0 11-Feb-2017 08:24 Laptop Data 2017
dr-xr-xr-x 0 0 0 24-Jul-2014 13:37 MSOCache
dr-xr-xr-x 0 0 0 15-Mar-2017 10:27 Marketing 2016
dr-xr-xr-x 0 0 0 27-Apr-2017 14:44 Marketing LJ
dr-xr-xr-x 0 0 0 8-Sep-2014 07:47 Master Program
dr-xr-xr-x 0 0 0 10-Dec-2016 12:24 Meeting Tahunan 2014
dr-xr-xr-x 0 0 0 12-May-2017 10:19 NERACA
dr-xr-xr-x 0 0 0 3-Jul-2017 19:19 System Volume Information
dr-xr-xr-x 0 0 0 25-Jul-2014 13:03 backup
-r--r--r-- 0 0 33792 17-Jun-2017 10:37 1C042000
-r--r--r-- 0 0 318976 20-Mar-2017 15:01 Daftar Aktiva.xls
-r--r--r-- 0 0 47104 17-Jun-2017 11:58 Data Laporan17.xls
-r--r--r-- 0 0 46080 6-Mar-2017 15:48 Faktur Jan.xls
-r--r--r-- 0 0 7021 19-Jun-2017 14:43 IN-162r.pdf
-r--r--r-- 0 0 7000 19-Jun-2017 14:44 IN-163r.pdf
Next
Use Right to change directory, h to hide Alternate Data Stream
q to quit, : to select the current file, a to select all files
C to copy the selected files, c to copy the current file
```

8. select copy destination

```
Terminal File Edit View Search Terminal Help
TestDisk 7.0, Data Recovery Utility, April 2015
Christophe GRENIER <grenier@cgsecurity.org>
http://www.cgsecurity.org
3 P HPFS - NTFS 19122 112 63 60801 47 46 669569024
Directory /
Copy done! 1 ok, 0 failed
dr-xr-xr-x 0 0 0 23-Jun-2017 08:03 .
dr-xr-xr-x 0 0 0 23-Jun-2017 08:03 ..
dr-xr-xr-x 0 0 0 24-Jul-2014 14:16 $RECYCLE.BIN
dr-xr-xr-x 0 0 0 3-May-2017 12:04 BOQ Bajak Mini
dr-xr-xr-x 0 0 0 2-Mar-2017 09:04 BUDGET 2016
dr-xr-xr-x 0 0 0 9-Jun-2017 11:04 BUDGET 2017
dr-xr-xr-x 0 0 0 27-May-2017 11:15 DATA 2017
dr-xr-xr-x 0 0 0 22-Dec-2016 15:21 DATA MAS 2015
dr-xr-xr-x 0 0 0 12-May-2017 10:12 Data Gabungan
dr-xr-xr-x 0 0 0 3-Jun-2017 12:22 Data LBP
dr-xr-xr-x 0 0 0 26-Feb-2016 10:52 Data Meeting 2015
dr-xr-xr-x 0 0 0 19-Jun-2017 11:53 Data Meeting 2016
dr-xr-xr-x 0 0 0 6-Apr-2017 11:47 Data Meeting 2017
dr-xr-xr-x 0 0 0 7-Jun-2017 15:26 Data Proyek
dr-xr-xr-x 0 0 0 27-Apr-2017 09:05 Data Stock
dr-xr-xr-x 0 0 0 22-Dec-2016 15:15 EFaktur2016
dr-xr-xr-x 0 0 0 20-Jun-2017 12:40 Faktur Pajak
dr-xr-xr-x 0 0 0 12-May-2017 10:36 Laporan Keuangan
dr-xr-xr-x 0 0 0 11-Feb-2017 08:24 Laptop Data 2017
dr-xr-xr-x 0 0 0 24-Jul-2014 13:37 MSOCache
dr-xr-xr-x 0 0 0 15-Mar-2017 10:27 Marketing 2016
dr-xr-xr-x 0 0 0 27-Apr-2017 14:44 Marketing LJ
dr-xr-xr-x 0 0 0 8-Sep-2014 07:47 Master Program
dr-xr-xr-x 0 0 0 10-Dec-2016 12:24 Meeting Tahunan 2014
dr-xr-xr-x 0 0 0 12-May-2017 10:19 NERACA
dr-xr-xr-x 0 0 0 3-Jul-2017 19:19 System Volume Information
dr-xr-xr-x 0 0 0 25-Jul-2014 13:03 backup
-r--r--r-- 0 0 33792 17-Jun-2017 10:37 1C042000
-r--r--r-- 0 0 318976 20-Mar-2017 15:01 Daftar Aktiva.xls
-r--r--r-- 0 0 47104 17-Jun-2017 11:58 Data Laporan17.xls
-r--r--r-- 0 0 46080 6-Mar-2017 15:48 Faktur Jan.xls
-r--r--r-- 0 0 7021 19-Jun-2017 14:43 IN-162r.pdf
-r--r--r-- 0 0 7000 19-Jun-2017 14:44 IN-163r.pdf
Next
Use Right to change directory, h to hide Alternate Data Stream
q to quit, : to select the current file, a to select all files
C to copy the selected files, c to copy the current file
```



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