



VIT[®]
Vellore Institute of Technology
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WINTER SEMESTER 2019-20
DIGITAL FORENSICS (CSE4004)
LAB ASSIGNMENT - 9

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Disk drill – Computer Forensics Data Recovery Tool

- ✓ Disk Drill is a powerful tool that can scan, recover and protect data on virtually any storage device, such as internal and external hard drives, cameras, iPods, USB flash drives, Kindles, and memory cards.
- ✓ Disk Drill can [recover all file systems](#) (HFS and HFS+, FAT/FAT32/exFAT, NTFS, EXT3/EXT4), including volumes with missing or corrupted file system, and lots of file types.
- ✓ In addition, Disk Drill not only recovers your files, but also protects them from any damage using three unique features. Recovery Vault feature tracks every file removed from your Mac and remembers its location and filename. Guaranteed Recovery makes a copy of every file deleted from the Trash, giving you an “Undelete” option even after you empty the trash bin. And S.M.A.R.T. Monitoring keeps an eye on your hard drive and warns you if there are any signs that it might be failing.

Features of Disk Drill

- ***Multiple Scan Options***
- ***Save Scan & Resume Recovery***
- ***Data Protection***

All files (296)

Pictures (63)

Video (195)

Audio (3)

Documents (33)

Archives (2)

Other (0)

Deep Scan


296 files / 7.17 GB

1 selected

Name	Date	Type	Size
Archives (2)		Folder	816 MB
Audio (3)		Folder	4.44 KB
Documents (33)		Folder	79.4 MB
Pictures (63)		Folder	31.1 MB
gif (1)		Folder	146 KB
jpg (48)		Folder	29.1 MB
file 1920x1080_000000.jpg		JPEG image	869 KB
file 1920x1080_000001.jpg		JPEG image	531 KB
file 1920x1080_000002.jpg		JPEG image	537 KB
file 1920x1080_000003.jpg		JPEG image	337 KB
file 1920x1080_000004.jpg		JPEG image	258 KB
file 1920x1080_000005.jpg		JPEG image	503 KB
file 1920x1080_000006.jpg		JPEG image	168 KB
file 1920x1080_000007.jpg		JPEG image	731 KB
file 1920x1080_000008.jpg		JPEG image	856 KB
file 1920x1080_000009.jpg		JPEG image	889 KB
file 1920x1080_000010.jpg		JPEG image	384 KB
file 1920x1080_000011.jpg		JPEG image	802 KB
file 1920x1080_000012.jpg		JPEG image	458 KB
file 1920x1080_000013.jpg		JPEG image	476 KB
file 1920x1080_000014.jpg		JPEG image	1.19 MB

Recover 1 files / 869 KB

Show scan results in Explorer



Data recovery complete

1 files / 869 KB

Device: SanDisk Cruzer Blade USB Device
Hardware disk

Recovery methods: Deep Scan

Path: C:\Users\karthi\Desktop

Return to disk list

Disk Drill - All recovery methods - Logical volume USB Drive (I:)

Stop scanning

View Filters Search

All files (14)

Pictures (0)

Video (0)

Audio (2)

Documents (3)

Archives (6)

Other (3)

Found files

14 files / 200 MB

Name	Date
Found files (6) - 197 MB	
Reconstructed (8) - 3.06 MB	
Archives (6)	
zip (6)	
file000002.zip	
file000003.zip	
file000004.zip	
file000005.zip	
file000000.zip	
file000001.zip	
Audio (2)	
aac (1)	
file000000.aac	
mpa (1)	
file000000.mpa	

Scanning...

Recover all...

Show scan results in Explorer

Filter by...

Minimum file size

0 KB

Deleted within the last

any time

1 day

2 days

4 days

1 week

2 weeks

1 month

2 months

← →

Backup Help

Data Recovery

Extras

Data Protection

Drive Backup

Recent sessions

7m: SanDisk Cruzer Blade...

+ Load session...

Drive Backup

Select partition you would like to back up

Device/Disk

SanDisk Cruzer Blade USB Device

USB Drive (F:)

ST1000LM035-1RK172

OS (C:)

DELLSUPPORT

ESP

Image

Microsoft recovery partition

OS

Unallocated

WDC WD10JMW-11AJSZ

My Passport (E:)

Type

Hardware...

Logical vol...

Hardware...

Logical vol...

Partition

Partition

Partition

Partition

Partition

Partition

Hardware...

Logical vol...

Connection\

USB

FAT32

RAID

NTFS

NTFS

NTFS

FAT32

NTFS

NTFS

USB

NTFS

Size

29.2 GB

29.2 GB

931 GB

917 GB

1.08 GB

650 MB

11.1 GB

654 MB

2.00 GB

11.7 MB

931 GB

931 GB

Data Recovery

Extras

Data Protection

Drive Backup

Recent sessions

3m: SanDisk Cruzer Blade...

+ Load session...



Disk image created!



Device: ESP Partition

Destination: C:\Users\dish\Desktop\ESP.dmg



If this disk fails to mount for recovery, you can mount it manually right from Disk Drill by attaching disk image. This option is more likely to mount the disk image and let you access it from Disk Drill.

[Video instructions](#)

Done