Task 3: Lost Data Retrieval

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1. Introduction:

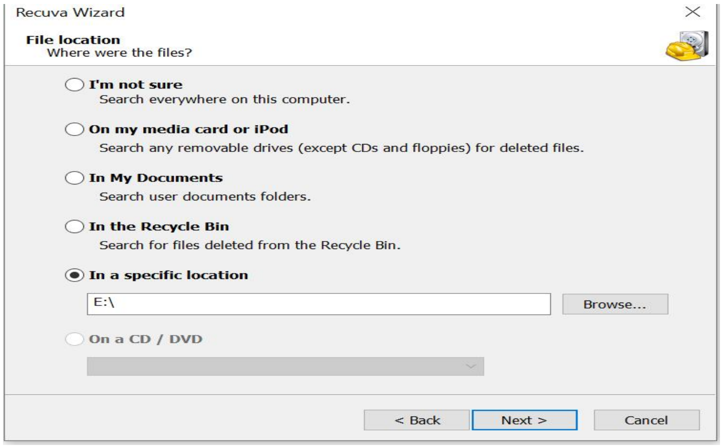
In the field of Cyber Security, data recovery is a critical skill for digital forensics. This report outlines the successful retrieval of a deleted document from a FAT32 file system.

2. Environment & Tools:

- **Host System:** Windows 10 Pro 64-bit
- **Storage Media:** 7.45 GB (displayed) USB Flash Drive formatted to **FAT32**.
- **Software: Recuva**, chosen for its effective signature-based scanning.

3. Step-by-Step Execution:

- **Initialization:** The Recuva Wizard was configured to search in a specific location (`E:\`) for all files.



Recuva Wizard

File location
Where were the files?

○ **I'm not sure**
Search everywhere on this computer.

○ **On my media card or iPod**
Search any removable drives (except CDs and floppies) for deleted files.

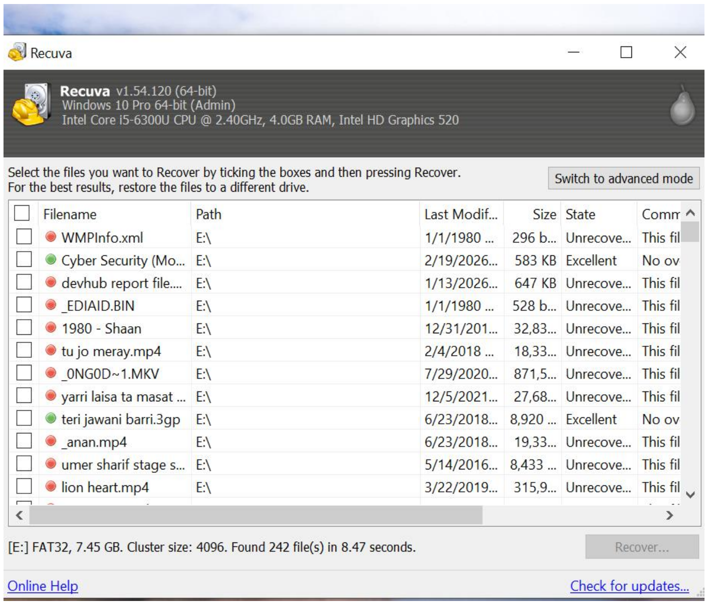
○ **In My Documents**
Search user documents folders.

○ **In the Recycle Bin**
Search for files deleted from the Recycle Bin.

● **In a specific location**
E:\

○ **On a CD / DVD**

- **Scan Results:** The scan took approximately 8.47 seconds and identified 242 files. Most were unrecoverable, but the target file, `Cyber Security (Month 2).pdf`, was found in perfect condition.



Recuva

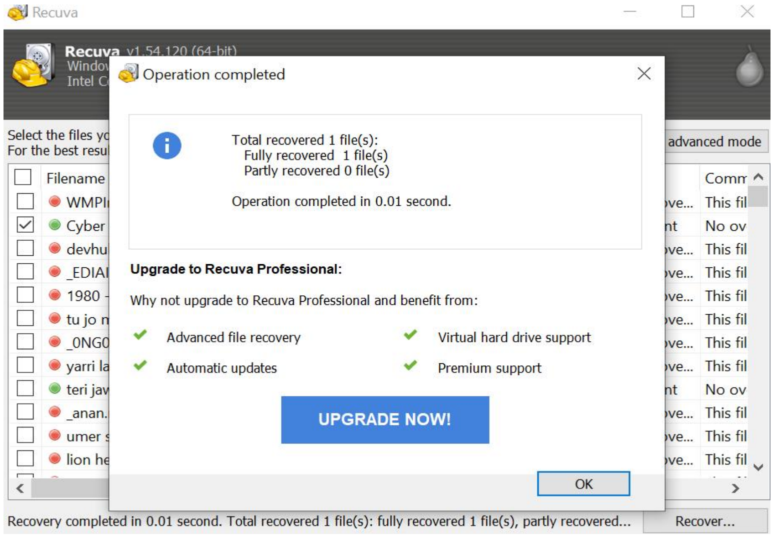
Recuva v1.54.120 (64-bit)
Windows 10 Pro 64-bit (Admin)
Intel Core i5-6300U CPU @ 2.40GHz, 4.0GB RAM, Intel HD Graphics 520

Select the files you want to Recover by ticking the boxes and then pressing Recover.
For the best results, restore the files to a different drive.

□	Filename	Path	Last Modif...	Size	State	Comm
□	● WMPInfo.xml	E:\	1/1/1980 ...	296 b...	Unrecove...	This fil
□	● Cyber Security (Mo...	E:\	2/19/2026...	583 KB	Excellent	No ov
□	● devhub report file....	E:\	1/13/2026...	647 KB	Unrecove...	This fil
□	● _EDIAID.BIN	E:\	1/1/1980 ...	528 b...	Unrecove...	This fil
□	● 1980 - Shaan	E:\	12/31/201...	32,83...	Unrecove...	This fil
□	● tu jo meray.mp4	E:\	2/4/2018 ...	18,33...	Unrecove...	This fil
□	● _0NG0D~1.MKV	E:\	7/29/2020...	871,5...	Unrecove...	This fil
□	● yarri laisa ta masat ...	E:\	12/5/2021...	27,68...	Unrecove...	This fil
□	● teri jawani barri.3gp	E:\	6/23/2018...	8,920 ...	Excellent	No ov
□	● _anan.mp4	E:\	6/23/2018...	19,33...	Unrecove...	This fil
□	● umer sharif stage s...	E:\	5/14/2016...	8,433 ...	Unrecove...	This fil
□	● lion heart.mp4	E:\	3/22/2019...	315,9...	Unrecove...	This fil

[E:] FAT32, 7.45 GB. Cluster size: 4096. Found 242 file(s) in 8.47 seconds.

- **Recovery Operation:** The file was selected and recovered in 0.01 seconds.



Operation completed

Total recovered 1 file(s):
  Fully recovered 1 file(s)
  Partly recovered 0 file(s)

Operation completed in 0.01 second.

Upgrade to Recuva Professional:

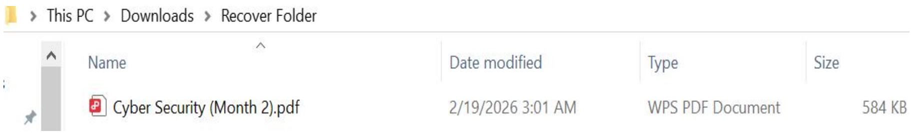
Why not upgrade to Recuva Professional and benefit from:

✓ Advanced file recovery ✓ Virtual hard drive support
✓ Automatic updates ✓ Premium support

Recovery completed in 0.01 second. Total recovered 1 file(s): fully recovered 1 file(s), partly recovered...

4. Evidence of Success:

- **Recuva State:** Excellent (Green indicator).
- **Final Location:** `C:\Users\[User]\Downloads\Recover Folder\Cyber Security (Month 2).pdf`.
- **File Size:** 584 KB.



Name	Date modified	Type	Size
Cyber Security (Month 2).pdf	2/19/2026 3:01 AM	WPS PDF Document	584 KB

5. Conclusion:

The task was completed successfully. This exercise highlights that files deleted from a FAT32 system are often recoverable as long as the clusters they occupy are not overwritten by new data.