

Mock Semifinals 2024 Web-Based Challenge

Challenge 3: Filesystem Forensics

Description

The attached disk image file contains a single partition, and some data has been stored on it, then deleted. Find information about the deleted files and the disk partition.

Disk Information: Provide the UUID of the disk (all lowercase), the logical sector size (in bytes), the physical sector size (in bytes), and the disk size (in megabytes, to the nearest megabyte).

Partition Information: Provide the filesystem type of the partition, the start sector of the partition, the end sector of the partition, and the number of sectors in the partition.

File 1: There is a TXT file that has been deleted on the disk. Find the filename of the file, the file size, and the 10-letter all uppercase password stored in the file.

File 2: There is a PNG file that has been deleted on the disk. Find the filename of the file, the file size (in bytes), and the 10-letter all uppercase password stored in the file.

File 3: There is a JPG file that has been deleted on the disk. Find the filename of the file, the file size (in bytes), and the 10-letter all uppercase password stored in the file.

File 4: There is an MP3 file that has been deleted on the disk. Find the filename of the file, the file size (in bytes), and the 10-letter all uppercase password stored in the file.

(continued on next page)

Submission Instructions

You must submit your answer as a .csv file, in the following format:

- ☐ The first line of the submission should contain your team number. In the case of this practice competition, please use your unique ID instead.
- ☐ The second line should contain the requested information about the disk.
- ☐ The third line should contain the requested information about the partition.
- ☐ The fourth line should contain the information about File 1 (the TXT file).
- ☐ The fifth line should contain the information about File 2 (the PNG file).
- ☐ The sixth line should contain the information about File 3 (the JPG file).
- ☐ The seventh line should contain the information about File 4 (the MP3 file).

In each line, separate your answers with a comma, with no space in between each answer. Refer to the below example for formatting help. The first two lines should have 4 pieces of information each. The last four lines should have 3 pieces of information each.

Each field is weighted equally in scoring. You will get points for each ciphertext you get correct. You will get 10 tries to submit before you will not be able to submit anymore.

Example Submission

```
pleasant_boat
935d4c28-a1fe-11ee-85d5-00155d084877,512,512,103
fat32,0,2047,2048
banana.txt,93,ZPOBWMKNOQ
pear.png,13212,DIJEAQMOFR
apple.jpg,44921,ADCYPUCTUY
grape.mp3,14223,IKCFEQUPKK
```