CTF Report Forensics - DISKO 1

Platform: picoCTF

Challenge Name: DISKO 1

Category: Forensics

Difficulty: Easy

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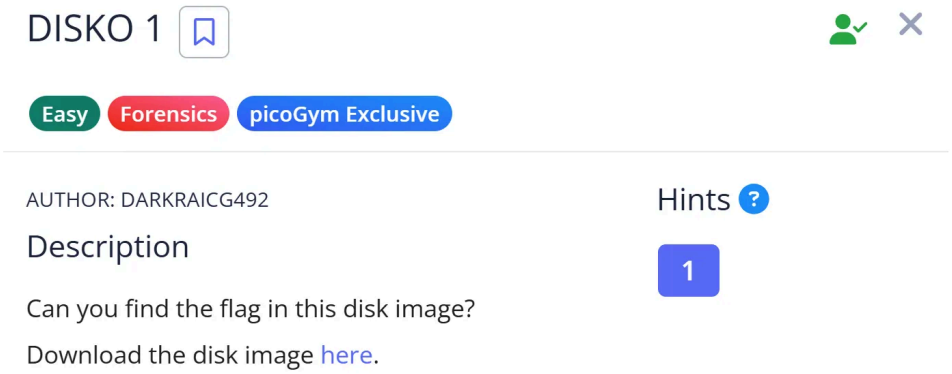
Objective

The goal of the challenge was to analyze a disk image file and extract the embedded flag. This required basic forensic skills, such as viewing raw strings from files and inspecting the contents for patterns or indicators that resemble a CTF flag.

Challenge Description



Files and Tools Used

- **File Provided:** `disko-1.dd.gz` (compressed disk image)
- **Tools Used:**
  - Kali Linux Terminal

- `gunzip` – for decompressing `.gz` files
- `strings` – for extracting readable strings from binary
- `nano` – for viewing output

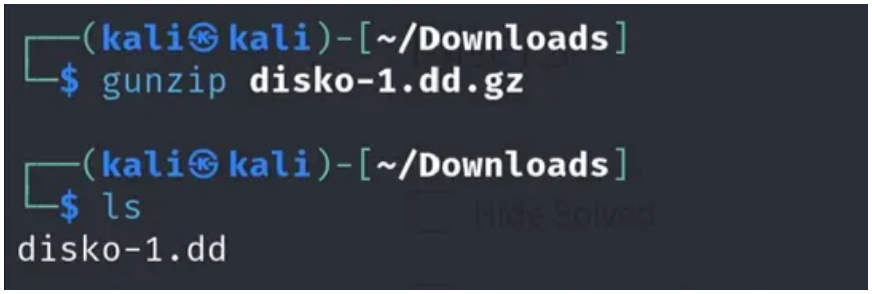
Step-by-Step Process

Step 1: Decompress the Disk Image

The challenge provided a Gzip-compressed disk image file. To access the contents, I decompressed it using the `gunzip` command:

```
gunzip disko-1.dd.gz
```

After running `ls`, I confirmed that `disko-1.dd` was extracted.



Step 2: Extract Strings from the Disk Image

I used the `strings` command to extract all printable characters from the raw disk image and redirected the output into a text file for easier searching.

```
strings disko-1.dd > output.txt
```

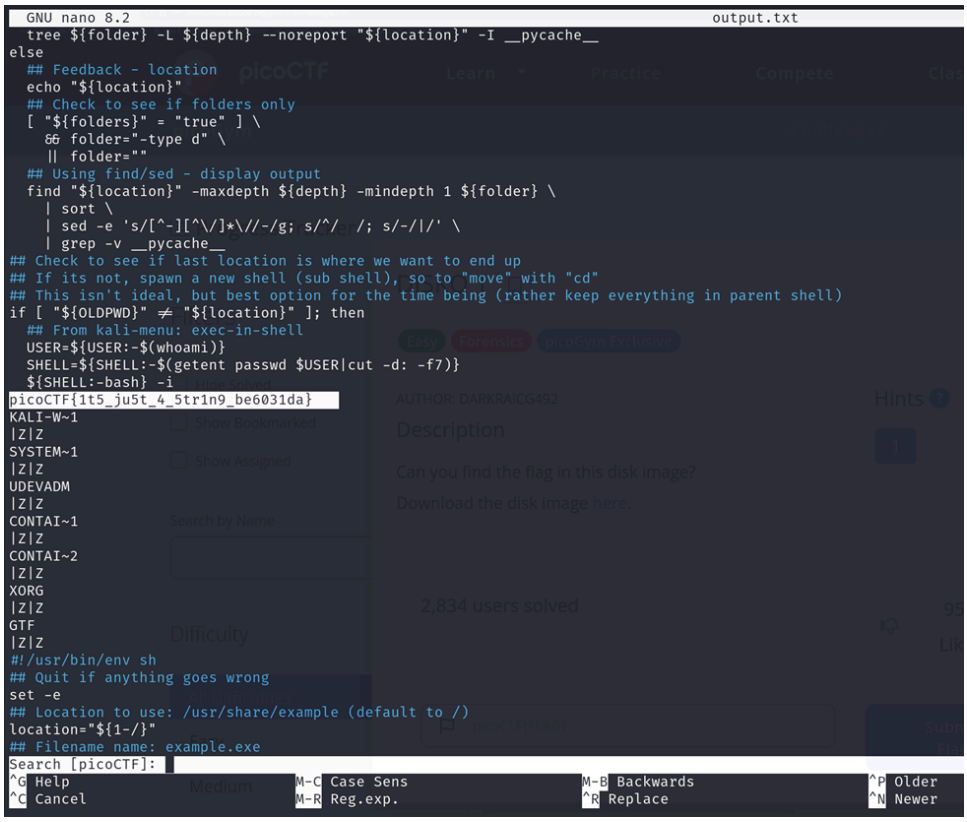
This step is crucial because disk images often contain plaintext fragments that could include flags, commands, or metadata.

Step 3: Search for the Flag

I opened the `output.txt` file using `nano`:

```
nano output.txt
```

I manually scrolled through the file, looking for anything that resembled a flag. Near the bottom of the file and found a valid-looking flag in the format expected by picoCTF:



Flag Submitted

The extracted flag was:

```
picoCTF{it5_ju5t_4_Str1n9_be6031da}
```

I submitted this flag in the challenge and confirmed it as correct.


Forensics
Easy
DISKO 1
2,835 solves
95%