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Medium Forensics

picoCTF 2022

sleuthkit

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Description

Download the disk image and use mmls on it to find the size of the Linux partition. Connect to the remote checker service to check your answer and get the flag. Note: if you are using the webshell, download and extract the disk image into /tmp not your home directory.

Download disk image

Access checker program: nc saturn.picoctf.net

65323

This challenge launches an instance on demand.

Its current status is:

RUNNING

Instance Time Remaining:

9:09

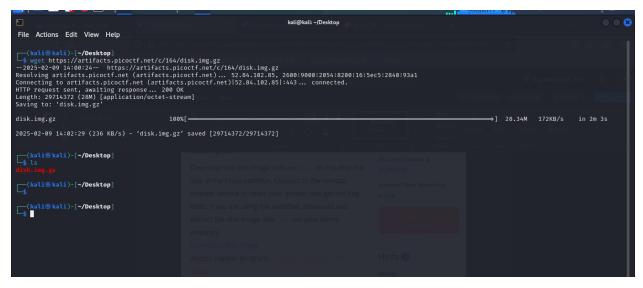
Restart

Hints 🔞

(None)

Solution

I downloaded the disk image using wget tool.



I then unzipped the gz compression.

```
(kali@ kali)-[~/Desktop]
$ sudo gzip -d disk.img.gz

[ (kali@ kali)-[~/Desktop]
gisk.img

(kali@ kali)-[~/Desktop]
```

To list the partition table contents i used the mmls command against the disk image.

```
| Salification | Sali
```

I then Connected to the server at port given using netcat. This question was asked "What is the size of the Linux partition in the given disk image?".

```
(kali@kali)-[~/Desktop]

(kali@kali)-[~/Desktop]

(kali@kali)-[~/Desktop]

no saturn.picoctf.net 65323

What is the size of the Linux partition in the given disk image?

Length in sectors:
```

And the answer to the question was "202752".

```
-(kali®kali)-[~/Desktop]
s mmls disk.img
DOS Partition Table
Offset Sector: 0
Units are in 512-byte sectors
      Slot
                Start
                              End
                                            Length
                                                         Description
000:
                0000000000
                              0000000000
                                            0000000001
                                                         Primary Table (#0)
      Meta
                                            0000002048
                                                         Unallocated
001:
                0000000000
                              0000002047
                                            0000<mark>202752</mark>
                                                         Linux (0×83)
002:
      000:000
                              0000204799
                0000002048
```

I provided the answer which was the size of the linux portion and the flag was returned by the program i connected to via netcat "picoCTF{mm15_f7w!}".

```
(kali® kali)-[~/Desktop]
$ nc saturn.picoctf.net 65323
What is the size of the Linux partition in the given disk image?
Length in sectors: 202752
202752
Great work!
picoctf{mm15_f7w!}

[kali@ kali)-[~/Desktop]
```