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| Name | Bulk File Extraction |
|------|---|
| URL | https://www.attackdefense.com/challengedetails?cid=1793 |
| Туре | Forensics: Disk Forensics |

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

In this lab, a disk image file "evidence.img" is provided in the home directory of the root user (/root/). There is a file on this image which contains the email and phone number of "evil" user. The email of the user is "evil@attacker.co.uk" and the phone number is the flag for this lab.

Objective: Extract the files from the disk image using the bulk extractor tool and retrieve the flag!

Solution:

Step 1: Use the bulk extractor to extract the files from the given disk image.

Command: bulk_extractor evidence.img -o output

```
root@attackdefense:~# bulk_extractor evidence.img -o output
bulk_extractor version: 1.6.0
Hostname: attackdefense.com
Input file: evidence.img
Output directory: output
Disk Size: 1072693248
Threads: 16
Attempt to open evidence.img
11:51:06 Offset 67MB (6.26%) Done in 0:00:12 at 11:51:18
11:51:08 Offset 150MB (14.08%) Done in 0:00:19 at 11:51:27
11:51:11 Offset 234MB (21.90%) Done in 0:00:20 at 11:51:31
11:51:13 Offset 318MB (29.72%) Done in 0:00:18 at 11:51:31
```

```
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```

```
11:51:16 Offset 402MB (37.54%) Done in 0:00:18 at 11:51:34
11:51:19 Offset 486MB (45.36%) Done in 0:00:17 at 11:51:36
11:51:22 Offset 570MB (53.18%) Done in 0:00:15 at 11:51:37
11:51:25 Offset 654MB (61.00%) Done in 0:00:13 at 11:51:38
11:51:28 Offset 738MB (68.82%) Done in 0:00:10 at 11:51:38
11:51:32 Offset 822MB (76.64%) Done in 0:00:08 at 11:51:40
11:51:36 Offset 905MB (84.46%) Done in 0:00:05 at 11:51:41
11:51:39 Offset 989MB (92.28%) Done in 0:00:02 at 11:51:41
All data are read; waiting for threads to finish...
```

Note: The process will take some time.

```
All Threads Finished!
Producer time spent waiting: 0 sec.
Average consumer time spent waiting: 22.8731 sec.
***************
** bulk_extractor is probably I/O bound. **
        Run with a faster drive
       to get better performance.
*************
MD5 of Disk Image: afd06ad98f9f8a08c113a2edb9c1360f
Phase 2. Shutting down scanners
Phase 3. Creating Histograms
Elapsed time: 57.8216 sec.
Total MB processed: 1072
Overall performance: 18.5518 MBytes/sec (1.15948 MBytes/sec/thread)
Total email features found: 92
root@attackdefense:~#
```

Step 2: Navigate to the output folder.

Command: cd output

```
root@attackdefense:~/output# ls
              email_domain_histogram.txt httplogs.txt
aes keys.txt
                                                                     rar.txt
alerts.txt email_histogram.txt ccn_histogram.txt email.txt
                                                  ip histogram.txt
                                                                    report.xml
                                                  ip.txt
                                                                   rfc822.txt
                                                  jpeg_carved.txt
ccn_track2_histogram.txt ether_histogram.txt
                                                                   sin.txt
                                                  json.txt sqlite_carved.txt
ccn_track2.txt
                       ether.txt
ccn.txt
                       exif.txt
                                                  kml.txt
                                                                     telephone histogram.txt
domain_histogram.txt
                       find histogram.txt
                                                  ntfsusn_carved.txt telephone.txt
domain.txt
                       find.txt
                                                  pii_teamviewer.txt unrar_carved.txt
elf.txt
                        gps.txt
                                                  pii.txt
                                                                     unzip_carved.txt
root@attackdefense:~/output#
```



Step 3: Utilise the grep utility to find the information.

Command: grep -rnw "evil@attacker.co.uk" . --color

This reveals the flag to us.

Flag: +912999949811

References:

1. Bulk Extractor (https://github.com/simsong/bulk extractor)