Lab 5-Module 5.1: Extracting unallocated clusters

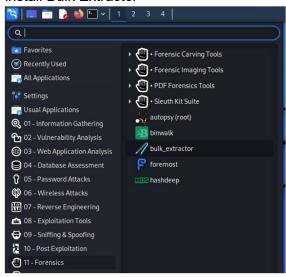
Objectives

File carving using Bulk Extractor

Task

Task 1. Software Preparation

- 1. Download the prepared image m5t3demo.img to the desktop.
- 2. Kali linux has pre-installed Bulk Extractor, for other linux distributions, you may need to install Bulk Extractor



Task 2. Prepare configuration file

- 1. Open the terminal and enter sudo su
- 2. Enter to desktop directory by entering cd Desktop



- 3. Enter bulk_extractor -h to view the help menu
 - In the help menu, you can find the scanners which are enabled.

```
hese scanners enabled; disable with -x:
-x accts - disable scanner accts
-5 ssm_mode=0 0 -Normal; 1-No 'SSN' required; 2-No dashes required
-5 smin_phone_digits=7 Min. digits required in a phone
-x ace - disable scanner ace
-5 scan_aes_128=1 Scan for 128-bit AES keys; 0=No, 1=Yes
-5 scan_aes_192=0 Scan for 192-bit AES keys; 0=No, 1=Yes
-5 scan_aes_256=1 Scan for 256-bit AES keys; 0=No, 1=Yes
-5 scan_aes_256=1 Scan for 256-bit AES keys; 0=No, 1=Yes
-x sase64 - disable scanner base64
-x elf - disable scanner email
-x evit - disable scanner email
-x evit - disable scanner evit
-x evif - disable scanner evit
-S exif_debug=0 debug exif decoder
-x facebook - disable scanner facebook
-x find - disable scanner find
-x gps - disable scanner gzip
-x gzip - disable scanner gzip
-S gzip_max_uncompr_size=268436456
-x httplogs - disable scanner httplogs
-x json - disable scanner httplogs
-x json - disable scanner kml_carved
```

You can also find the scanners which are disabled.

4. Enter bulk extractor -o bulkOutput m5t3demo.img and wait for the process

```
tolerit)://nome/kali/Desktop|
k_extractor -o bulkOutput m$tJdemo.img
bulkOutput tolering
bulkOutput m$tJdemo.img
bulkOutput tractor version: 2.0.0
ile: "m$tJdemo.img
directory: bulkOutput
tractor version: 2.0.0
ile: "m$tJdemo.img
directory: bulkOutput
tractor version: 2.0.0
ile: "m$tJdemo.img
directory: bulkOutput
tractory: bulkOutput
tractory
fhreads: 8
going multi-threaded...( 8 )
oulk_extractor Mon Nov 14 18:21:17 2022
       vailable_memory: 7338909696
/tes_queued: 0
                                        queued: 0
_sbufs_queued: 0
_sbufs_queued: 0
_time: 0:00:00
ted_date_completion: 2022-11-14 18:21:16
ted_time_remaining: n/a
on_read: 0.000000 %
fest: 0
created: 1
queued: 0.
```

5. If you see the lock icon next to the folder, in the terminal, enter chmod -R 777 bulkOutput

