



Title: Vulnerability Scanning

The tool used to identify the network port and vulnerability scanning.

- Nmap
- OpenVAS
- Nikto

Task:

- **Nmap**

Detect open ports and service versions.

nmap -sV -O 192.168.1.190

```
└─(manojkumar㉿kali)-[~]
$ nmap -sV -O 192.168.1.190
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-09 16:48 IST
Nmap scan report for Hari_B (192.168.1.190)
Host is up (0.00090s latency).

Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE      VERSION
135/tcp    open  msrpc        Microsoft Windows RPC
139/tcp    open  netbios-ssn   Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds?
3389/tcp   open  ms-wbt-server VirtualBox VM Remote Desktop Service
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1
closed port
Device type: bridge|VoIP adapter|general purpose
Running (JUST GUESSING): Oracle Virtualbox (98%), Slirp (98%), AT&T embedded (95%), QEMU
(94%)
OS CPE: cpe:/o:oracle:virtualbox cpe:/a:danny_gasparovski:slirp cpe:/a:qemu:qemu
Aggressive OS guesses: Oracle Virtualbox Slirp NAT bridge (98%), AT&T BGW210 voice gateway (95%),
QEMU user mode network gateway (94%)
No exact OS matches for host (test conditions non-ideal).
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 19.78 seconds
```

- **Nikto**

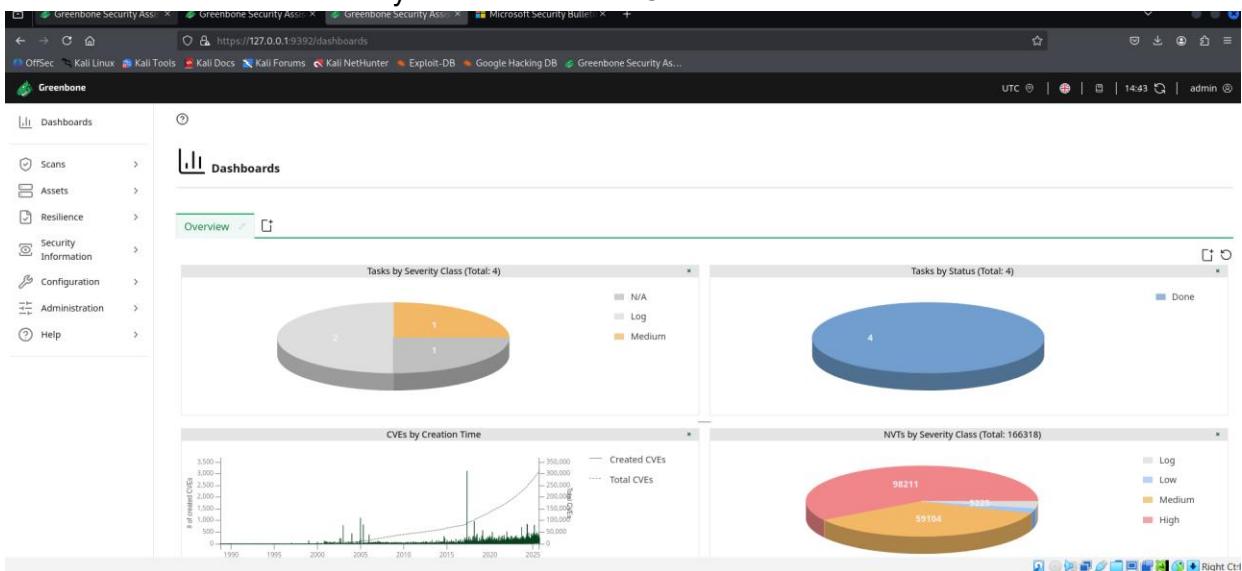
Find web application / service issues.

```
└─(manojkumar㉿kali)-[~]
$ nikto -h https://127.0.0.1:9392
- Nikto v2.5.0
+ Target IP:          127.0.0.1
+ Target Hostname:    127.0.0.1
+ Target Port:        9392
+ SSL Info:           Subject: /C=DE/L=Osnabrueck/O=GVM Users/CN=kali
                      Ciphers: TLS_AES_256_GCM_SHA384
                      Issuer: /C=DE/L=Osnabrueck/O=GVM Users/OU=Certificate Authority for
kali
+ Start Time:         2025-10-09 17:06:31 (GMT5.5)
-
+ Server: No banner retrieved
+ /: The site uses TLS and the Strict-Transport-Security HTTP header is not defined. See:
https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Strict-Transport-Security
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Hostname '127.0.0.1' does not match certificate's names: kali. See: https://cwe.mitre.org/data/definitions/297.html
+ /12700.tar.lzma: Potentially interesting backup/cert file found. . See: https://cwe.mitre.org/data/definitions/530.html
+ /1.egg: Potentially interesting backup/cert file found. . See: https://cwe.mitre.org/data/definitions/530.html
+ /archive.war: Potentially interesting backup/cert file found. . See: https://cwe.mitre.org/
```



➤ OpenVAS

- Scan target from web UI (<https://127.0.0.1:9392>)
- Full vulnerability assessment with CVSS Scores.



➤ Analyse and Prioritize Vulnerabilities

Use CVSS Calculator to determine.

Severity	CVSS Range	Action
Critical	9.0 - 10.0	Immediate Action Required
High	7.0 - 8.9	Fix as soon as possible
Medium	4.0 - 6.9	Fix based on business impact
Low	0.1 - 3.9	Acceptable Risk Not required the immediate remediation

➤ Document Result

Record findings in a excel.

Scan ID	Vulnerability Name	CVSS Score	Priority	Host
1	Adobe Acrobat 9 PDF Document Encryption Weakness Vulnerability - Windows	7.5	High	192.168.1.190
2	Adobe AIR < 1.5 JavaScript Code Execution Vulnerability	6.8	Medium	192.168.1.190
3	ASP.NET Core 3.0.x < 3.0.2, 3.1.0 Multiple Vulnerabilities (Jan 2020)	8.8	High	192.168.1.190



Test: Scan a Metasploitable2 VM with Nmap (nmap -sV 192.168.1.100) and OpenVAS.

Nmap

Quick full surface scan.

```
nmap -p- -T4 -sV -sC --script vuln -oA nmap_full 10.0.2.15
```

```
Metasploitable3-ub1404 [Running] - Oracle VirtualBox
| State: VULNERABLE
| Description:
|   Slowloris tries to keep many connections to the target web server open and hold them open as long as possible.
|   It accomplishes this by opening connections to the target web server and sending a partial request. By doing so, it starves the http server's resources causing Denial Of Service.
|
| Disclosure date: 2009-09-17
| References:
|   http://hackers.org/slowloris/
|   http-stored-xss: Couldn't find any stored XSS vulnerabilities.
34452/tcp open  status      1 (RPC #100024)
38456/tcp open  unknown
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at http://www.insecure.org/cgi-bin/serviceSubmit.cgi :
SF-Port22-TCP:U=6.40%I=7%D=10/10%Time=68E892D9%P=x86_64-pc-linux-gnu%r(NUL
SF:L,2C,"SSH-2\.0-OpenSSH_6\.6\.1p1\x20Ubuntu-2ubuntu2\.13\r\n");
Service Info: OS: Unix

Host script results:
!_smb-vuln-ms10-054: false
!_smb-vuln-ms10-061: false

Service detection performed. Please report any incorrect results at http://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 372.82 seconds
vagrant@metasploitable3-ub1404:~$ _
```

OpenVAS

- Open browser to <https://127.0.0.1:9392>
- Login with your GVM Credential

- Create target and scan
 - Create a target → set host (10.0.2.15)
 - Create task → select the target and a relevant scan config (like full and fast / full and deep)
 - Run task

Name	Status	Reports	Last Report	Severity	Trend	Actions
meta	Done	1	Fri, Oct 10, 2025 5:12 AM Coordinated Universal Time	0.0 (Log)	→	
Metasploit3	Done	1	Wed, Oct 8, 2025 3:50 PM Coordinated Universal Time	0.0 (Log)	→	
Scan Metasploitable	Done	4	Fri, Oct 10, 2025 4:52 AM Coordinated Universal Time	0.0 (Log)	→	
Win11	Done	1	Thu, Oct 9, 2025 3:06 PM Coordinated Universal Time	0.0 (Medium)	→	

➤ Export Report

- After completion, export and XML, CSV, and PDF.

Done — the document now focuses on your titled case “**Critical Web Vulnerabilities**”, with there is no findings for **CVE** on **10.0.2.15** detailed technical info, and remediation steps.

Title: Reconnaissance Practice

Maltego

- Visualize and correlate information.
 - Install maltego in kali

sudo apt install maltego

```
(manojkumar㉿kali)-[~]
$ sudo apt install maltego
[sudo] password for manojkumar:
maltego is already the newest version (4.10.1-0kali1).
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0

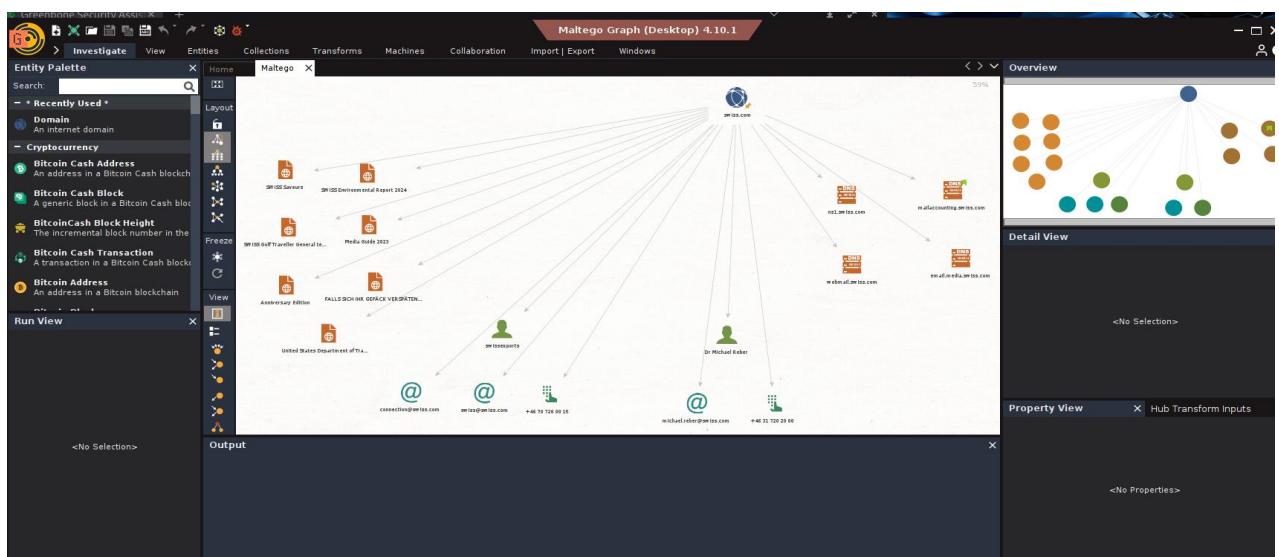
(manojkumar㉿kali)-[~]
```

- Then open maltego through terminal

maltego

**Step:**

- Open Maltego → Choose a transform set
- Start with Domain (swiss)
- Run transforms
 - ✓ **DNS Name (swiss.com)**
 - ✓ **MX Record (webmail.swiss.com)**
 - ✓ **To WHOIS information (swiss export, Michael Reber)**
- Analyze relationship and visualize results.



- Export the graph PNG or PDF.

Title: Exploitation Lab**Burp Suite**

- Burpsuite is installed on kali linux by default
- However, if for whatever reason you don't have burp installed.

sudo apt-get update

```
(manojkumar㉿kali)-[~]
$ sudo apt-get update
[sudo] password for manojkumar:
Hit:1 http://http.kali.org/kali kali-rolling InRelease
Reading package lists... Done
```

sudo apt-get upgrade



```
(manojkumar㉿kali)-[~]
$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

➤ Then install burpsuite

sudo apt install burpsuite

```
(manojkumar㉿kali)-[~]
$ sudo apt install burpsuite

Installing:
  burpsuite

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 0
  Download size: 0 B / 274 MB
  Space needed: 288 MB / 254 GB available

Selecting previously unselected package burpsuite.
(Reading database ... 427040 files and directories currently installed.)
Preparing to unpack .../burpsuite_2025.8.7-0kali1_amd64.deb ...
Unpacking burpsuite (2025.8.7-0kali1) ...
Setting up burpsuite (2025.8.7-0kali1) ...
Processing triggers for kali-menu (2025.4.1) ...
```

➤ Open terminal and run burpsuite.

burpsuite



```
manojkumar㉿kali ~
Session Actions Edit View Help
(manojkumar㉿kali)-[~]
$ sudo apt remove burpsuite
REMOVING:
  burpsuite kali-linux-default kali-tools-top10

Summary:
  Upgrading: 0, Installing: 0, Removing: 3, Not Upgrading: 0
  Freed space: 288 MB

Continue? [Y/n] y
(Reading database ... 427053 files and directories
Removing kali-linux-default (2025.4.5) ...
Removing kali-tools-top10 (2025.4.5) ...
Removing burpsuite (2025.8.7-0kali1) ...
Processing triggers for kali-menu (2025.4.1) ...

(manojkumar㉿kali)-[~]
$ sudo apt install burpsuite

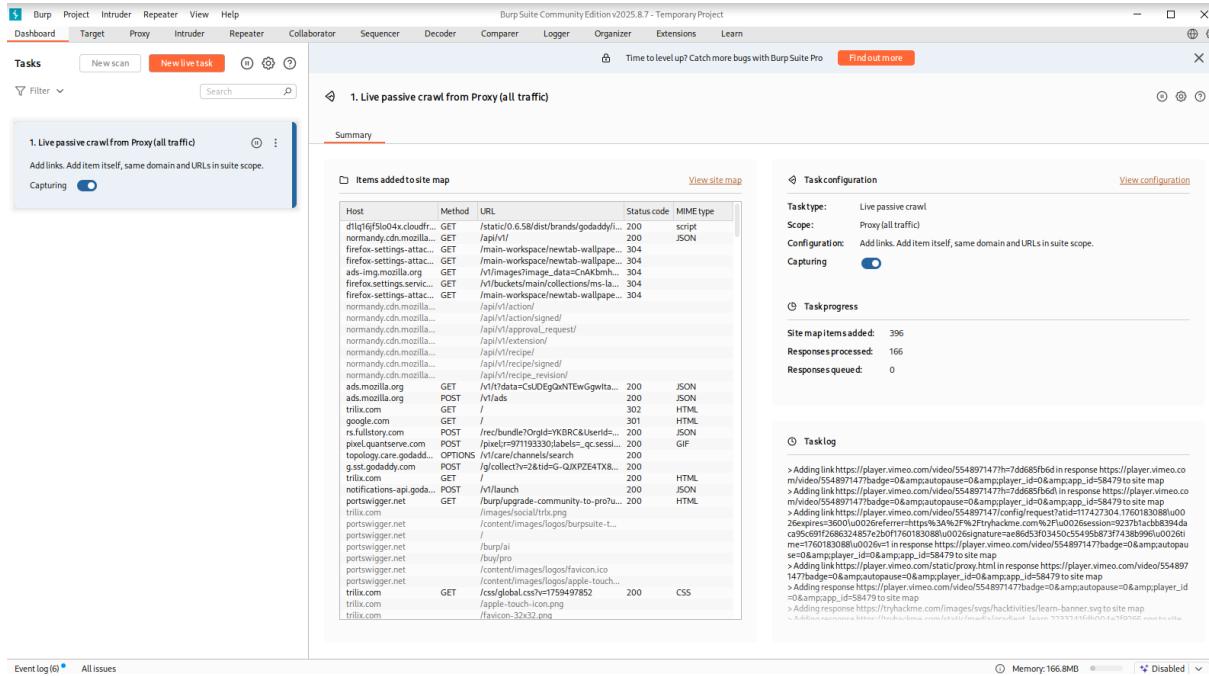
Installing:
  burpsuite

Summary:
  Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 0
  Download size: 0 B / 274 MB
  Space needed: 288 MB / 254 GB available

Selecting previously unselected package burpsuite.
(Reading database ... 427040 files and directories
Preparing to unpack .../burpsuite_2025.8.7-0kali1_amd64.deb ...
Unpacking burpsuite (2025.8.7-0kali1) ...
Setting up burpsuite (2025.8.7-0kali1) ...
Processing triggers for kali-menu (2025.4.1) ...

(manojkumar㉿kali)-[~]
$ burpsuite
[warning] /usr/bin/burpsuite: No JAVA_CMD set for run_java, falling back to JAVA_CMD = java
```

➤ Live passive crawl from proxy all traffic



Summary

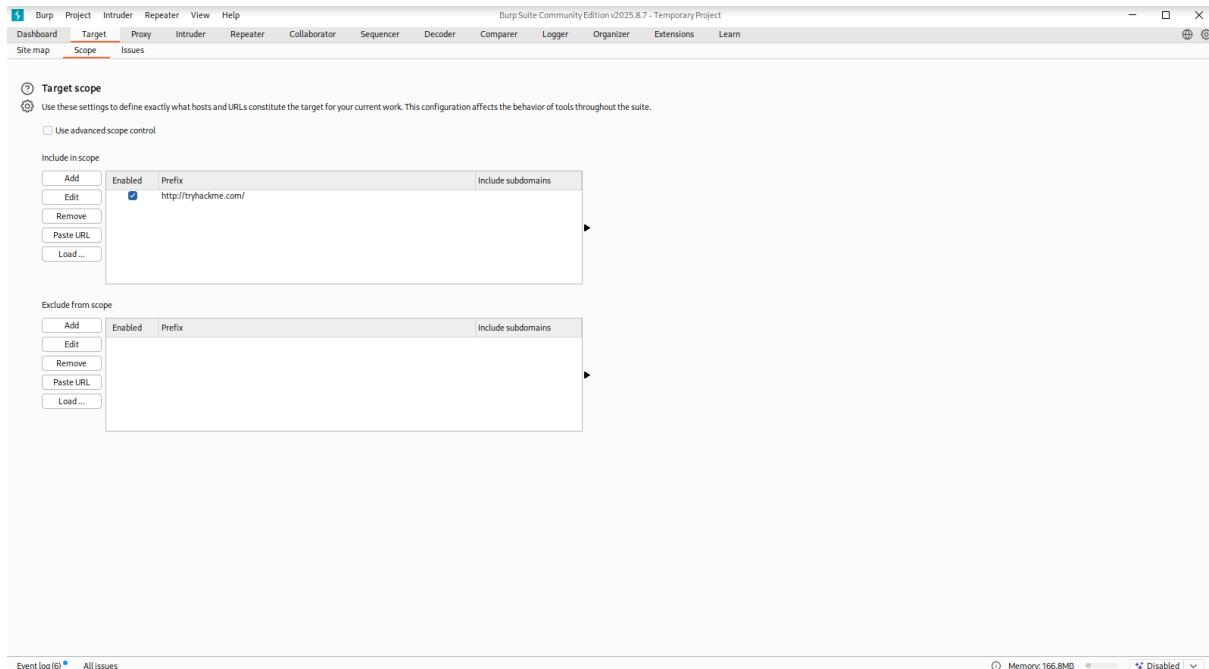
Host	Method	URL	Status code	MIME type
d1lq1g5lo4x.cloudfla...	GET	/static/0.6.58/dist/brands/godaddy/i...	200	script
normandy.cdn.mozilla...	GET	/api/v1/l...	200	JSON
firefox-settings-attac...	GET	/main-workspace/newtab-wallpage.../...	304	
firefox-settings-attac...	GET	/main-workspace/newtab-wallpage.../...	304	
ads-img.mozilla...	GET	/v1/images/image.../data=CNAAK...	304	
firefox-settings-servic...	GET	/v1/buckets/main/collections/mis-.../...	304	
firefox-settings-attac...	GET	/main-workspace/newtab-wallpage.../...	304	
normandy.cdn.mozilla...		/api/v1/action/...		
normandy.cdn.mozilla...		/api/v1/action/signid/...		
normandy.cdn.mozilla...		/api/v1/cookies/...		
normandy.cdn.mozilla...		/api/v1/creepid/...		
normandy.cdn.mozilla...		/api/v1/recipe/signid/...		
normandy.cdn.mozilla...		/api/v1/recipe/reviewid/...		
ads.mozilla.org	GET	/v1/rid=a.../CuDEgQxNTEwGwita...	200	JSON
ads.mozilla.org	POST	/v1/ids	200	JSON
trillix.com	GET	/	302	HTML
google.com	GET	/	301	HTML
rs.fullstory.com	POST	/pref-build/OrgId=d16C84UserId=...	200	JSON
pixel.quantserve.com	GET	/pixel/27103303030bcbe...-qc-session...	200	GIF
topology.care.godadd...	OPTIONS	/v1/care/channels/search	200	
g.st.godaddy.com	POST	/g/collect?v=2&id=G-GXRFZETX8...	200	
trillix.com	GET	/v1/launch	200	HTML
notifications-api.goda...	POST	/v1/upgrade-community-to-pronto...	200	JSON
portswigger.net	GET	/images/social/trillix.png		
portswigger.net		/content/images/logos/burpsuite-...		
portswigger.net		/burp/...		
portswigger.net		/burp/pro		
portswigger.net		/content/images/logo/favico...		
portswigger.net		/css/global.css?v=1759497852	200	CSS
trillix.com	GET	/apple-touch-icon.png		
trillix.com		/favicon-32x32.png		

Task configuration

Task progress

Task log

➤ Target Scope use these setting to define exactly what hosts and URLs constitute the target for your current network.



Target scope

Use these settings to define exactly what hosts and URLs constitute the target for your current work. This configuration affects the behavior of tools throughout the suite.

Use advanced scope control

Include in scope

Add	Enabled	Prefix	Include subdomains
<input checked="" type="checkbox"/>	http://tryhackme.com/		

Exclude from scope

Add	Enabled	Prefix	Include subdomains
<input type="checkbox"/>			

Proxy route browser traffic through burp to capture full request and response. Use scope rules to avoid crawling out of target scope and save http history and tag interesting items.



The screenshot shows the Burp Suite interface with the following details:

- Project:** CYART
- Target:** https://accounts.google.com:443
- Proxy:** Intercepted
- HTTP history:** 17 items listed, starting from 17:40:24 to 17:40:45.
- Decoder:** Set to "Auto-select false & use mode=popup&ui_mode=card&none."
- Request:** Request to https://accounts.google.com/gsi/frame/select?client_id=51725810533-m41ntrpg3pac6ijemqd64ut7s579n.apps.googleusercontent.com&auto_select=false&use_mode=popup&ui_mode=card&none... (Status: 200 OK)
- Inspector:** Shows request attributes, query parameters, body parameters, cookies, and headers.
- Request log:** 0 highlights.
- Memory:** 190.4MB

Title: Post-Exploitation Practice

Volatility

Volstility 3 actively developed, python 3, modern plugins and output formats.

- Install volatility3 from pypi

```
pip install --upgrade pip
```

```
(venv)-(manojkumar@kali)-[~]
$ pip install --upgrade pip

Requirement already satisfied: pip in ./venv/lib/python3.13/site-packages (25.2)
```

```
pip install volatility3
```

```
(venv)-(manojkumar@kali)-[~]
$ pip install volatility3

Collecting volatility3
  Downloading volatility3-2.26.2-py3-none-any.whl.metadata (7.4 kB)
Collecting pefile>=2024.8.26 (from volatility3)
  Downloading pefile-2024.8.26-py3-none-any.whl.metadata (1.4 kB)
  Downloading volatility3-2.26.2-py3-none-any.whl (1.4 MB)
  1.4/1.4 MB 1.2 MB/s 0:00:01
  Downloading pefile-2024.8.26-py3-none-any.whl (74 kB)
  Installing collected packages: pefile, volatility3
  Successfully installed pefile-2024.8.26 volatility3-2.26.2
```

- Verify the volatility3 installation



vol -h

```
(venv)-(manojkumar@kali)-[~]
$ vol -h

Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [--parallelism [{processes,threads,off}]] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-q] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [-filters FILTERS] [--hide-columns [HIDE_COLUMNS ...]] [--single-location SINGLE_LOCATION] [--stackers [STACKERS ...]]
           PLUGIN ...
An open-source memory forensics framework

options:
-h, --help      Show this help message and exit, for specific plugin options use 'vol <pluginname> --help'
-c, --config CONFIG Load the configuration from a json file
--parallelism [{processes,threads,off}]
-e, --extend EXTEND Extend the configuration with a new (or changed) setting
-p, --plugin-dirs PLUGIN_DIRS
        Semi-colon separated list of paths to find plugins
-s, --symbol-dirs SYMBOL_DIRS
        Semi-colon separated list of paths to find symbols
-v, --verbosity Increase output verbosity
-l, --log LOG Log output to a file as well as the console
-o, --output-dir OUTPUT_DIR
        Directory in which to output any generated files
-q, --quiet Remove progress feedback
-r, --renderer RENDERER
        Determines how to render the output (quick, none, csv, pretty, json, jsonl)
-f, --file FILE
        Output command for --single-location=FILE// if single-location is not defined
-w, --write-config Write configuration JSON file out to config.json
--save-config SAVE_CONFIG
        Save configuration JSON file to a file
--clear-cache
        Clears out all short-term cached items
--cache-path CACHE_PATH
        Change the default path (/home/manojkumar/.cache/volatility3) used to store the cache
--offline
        Do not search online for additional JSON files
-u, --remote-isf-url URL
        Search online for ISF JSON files
--filters FILTERS
        List of filters to apply to the output (in the form of [+>classname,pattern[]])
--hide-columns [HIDE_COLUMNS ...]
        Case-insensitive space separated list of prefixes to determine which columns to hide in the output if provided
--single-location SINGLE_LOCATION
        Specifies a base location on which to stack
--stackers [STACKERS]
        Specifies a base location on which to stack
--single-swap-locations [SINGLE_SWAP_LOCATIONS ...]
        List of stackers
--single-swap-locations [SINGLE_SWAP_LOCATIONS ...]
        Specifies a list of swap layer URIs for use with single-location
```

Volatility 3 Workflow

- Confirm image type, architecture, suggested plugins

vol -f memory.img windows.info

```
(venv)-(manojkumar@kali)-[~]
$ vol -f memory.img windows.info

Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [--parallelism [{processes,threads,off}]] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-q] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [-filters FILTERS] [--hide-columns [HIDE_COLUMNS ...]] [--single-location SINGLE_LOCATION] [--stackers [STACKERS ...]]
           PLUGIN ...
vol: error: File does not exist: /home/manojkumar/memory.img
```

- List processes

vol -f memory.img windows.pslist

```
(venv)-(manojkumar@kali)-[~]
$ vol -f memory.img windows.pslist

Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [--parallelism [{processes,threads,off}]] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-q] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [-filters FILTERS] [--hide-columns [HIDE_COLUMNS ...]] [--single-location SINGLE_LOCATION] [--stackers [STACKERS ...]]
           PLUGIN ...
vol: error: File does not exist: /home/manojkumar/memory.img
```

- Find hidden

vol -f memory.img windows.psscan

```
(venv)-(manojkumar@kali)-[~]
$ vol -f memory.img windows.psscan

Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [--parallelism [{processes,threads,off}]] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-q] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [-filters FILTERS] [--hide-columns [HIDE_COLUMNS ...]] [--single-location SINGLE_LOCATION] [--stackers [STACKERS ...]]
           PLUGIN ...
vol: error: File does not exist: /home/manojkumar/memory.img
```

- Show command line

vol -f memory.img windows.cmdline

```
(venv)-(manojkumar@kali)-[~]
$ vol -f memory.img windows.cmdline

Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [--parallelism [{processes,threads,off}]] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-q] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [-filters FILTERS] [--hide-columns [HIDE_COLUMNS ...]] [--single-location SINGLE_LOCATION] [--stackers [STACKERS ...]]
           PLUGIN ...
```

vol -f memory.img windows.consoles



```
(venv)-(manojkumar㉿kali)-[~]
$ vol -f memory.1mg windows.consoles
Volatility 3 Framework 2.26.2
usage: vol [-h] [-c CONFIG] [-parallelism {{processes,threads,off}}] [-e EXTEND] [-p PLUGIN_DIRS] [-s SYMBOL_DIRS] [-v] [-l LOG] [-o OUTPUT_DIR] [-a] [-r RENDERER] [-f FILE] [--write-config] [--save-config SAVE_CONFIG]
           [-clear-cache] [-cache-path CACHE_PATH] [-offline | -u URL] [--filters FILTERS] [-hide-columns HIDE_COLUMNS ...] [-single-location SINGLE_LOCATION] [-stackers STACKERS ...]
           [-single-swap-locations SINGLE_SWAP_LOCATIONS ...]
           [PLUGIN ...]
```

Title: Capstone Project: Full VAPT Cycle

Only run these steps on machines you own or explicitly have authorization to test.

- Find the target IP in kali

ip a

```
(manojkumar㉿kali)-[~]
$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:20:35:1e brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
        valid_lft 42169sec preferred_lft 42169sec
    inet6 fd17:625c:f037:2:23e3:9835:77c5:d328/64 scope global temporary dynamic
        valid_lft 86263sec preferred_lft 14263sec
    inet6 fd17:625c:f037:2:a00:27ff:fe20:351e/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 86263sec preferred_lft 14263sec
    inet6 fe80::a00:27ff:fe20:351e/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

- Ping range to find live hosts

for ip in 10.0.2.15; do ping -c1 -W1 \$ip &>/dev/null && echo "live: \$ip"; done

```
(manojkumar㉿kali)-[~]
$ for ip in 10.0.2.15; do ping -c1 -W1 $ip &>/dev/null && echo "live: $ip"; done
live: 10.0.2.15
```

- Fast port and service scan using nmap

nmap -sC -sV -p- -T4 -oA scans/initial 10.0.2.15

```
(manojkumar㉿kali)-[~]
$ nmap -sC -sV -p- -T4 -oA scans 10.0.2.15
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-11 22:26 IST
Nmap scan report for 10.0.2.15
Host is up (0.0000020s latency).
All 65535 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 65535 closed tcp ports (reset)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.04 seconds
```

- Focused scan

nmap -sS -sV --script vuln -T4 -oN vuln_scan 10.0.2.15



```
(manojkumar㉿kali)-[~]
$ nmap -sS -sV --script vuln -T4 -oN vuln_scan 10.0.2.15
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-11 22:29 IST
Nmap scan report for 10.0.2.15
Host is up (0.0000030s latency).
All 1000 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.53 seconds
```

- Enumeration pre-service use the result of the nmap scan to enumerate services

HTTP/Web

```
gobuster dir -u http://10.0.2.15/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -o gobuster_http.txt -t 50
```

```
(manojkumar㉿kali)-[~]
$ gobuster dir -u http://10.0.2.15/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -o gobuster_http.txt -t 50

Gobuster v3.8
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url:          http://10.0.2.15/
[+] Method:       GET
[+] Threads:      50
[+] Wordlist:     /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent:   gobuster/3.8
[+] Timeout:      10s
=====
Starting gobuster in directory enumeration mode
=====
Progress: 0 / 1 (0.00%)
2025/10/11 22:30:37 error on running gobuster on http://10.0.2.15/: connection refused
```

Nikto scan

```
nikto -h http://10.0.2.15 -o nikto_http.txt
```

```
(manojkumar㉿kali)-[~]
$ nikto -h http://10.0.2.15 -o nikto_http.txt

- Nikto v2.5.0
=====
+ 0 host(s) tested
```

FTP

- Anonymous login check

```
ftp 10.0.2.15
```

```
(manojkumar㉿kali)-[~]
$ ftp 10.0.2.15
ftp: Can't connect to `10.0.2.15:21': Connection refused
ftp: Can't connect to `10.0.2.15:ftp'
ftp> █
```

SNMP

- SNMP is Check public community



```
[~] (manojkumar㉿kali)-[~]
└─$ snmpwalk -v1 -c public 10.0.2.15
Timeout: No Response from 10.0.2.15
```

Vulnerability discovery

- Map observed versions to known CVEs locally

```
nmap --script vuln
```

```
[~] (manojkumar㉿kali)-[~]
└─$ nmap --script vuln 10.0.2.15
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-11 22:57 IST
Nmap scan report for 10.0.2.15
Host is up (0.0000020s latency).
All 1000 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

Nmap done: 1 IP address (1 host up) scanned in 23.38 seconds
```



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