EXPLORING AND AUDITING NETWORK USING NMAP

TITLE SUBMISSIONS

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Senior Professor

SCOPE

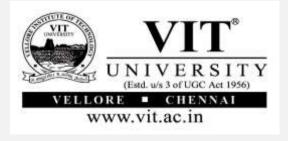


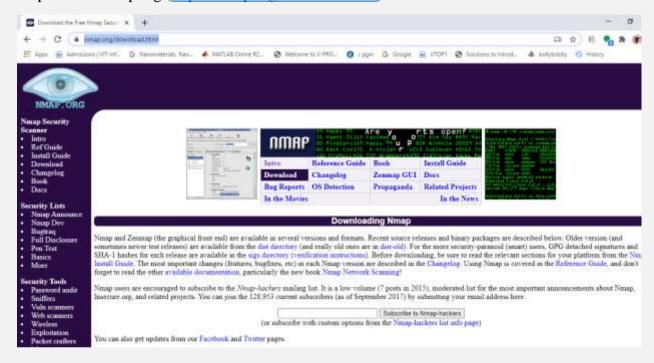
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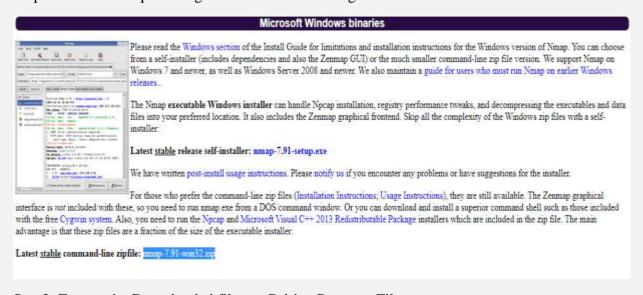
S/W INSTALLATION GUIDE

CASE1: FOR WORKING IN COMMAND PROMPT:

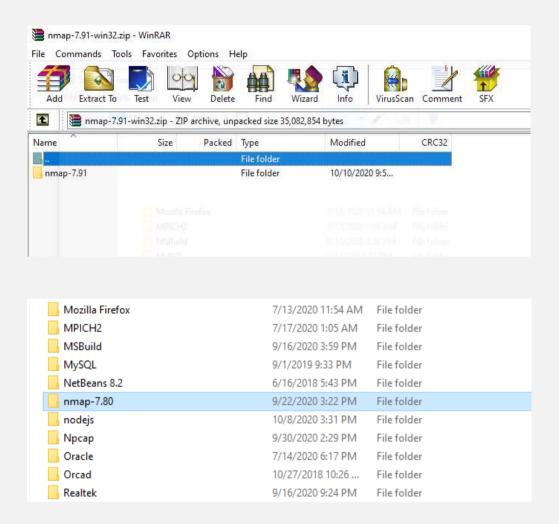
Step1: Visit Nmap.org (https://nmap.org/download.html)



Step2: Download zip folder given under windows tag



Step3: Extract the Downloaded files to C drive Program Files.



Step4: Open command prompt and change directory using cd file location

```
Microsoft Windows [Version 10.0.19041.508]
(c) 2020 Microsoft Corporation. All rights reserved.

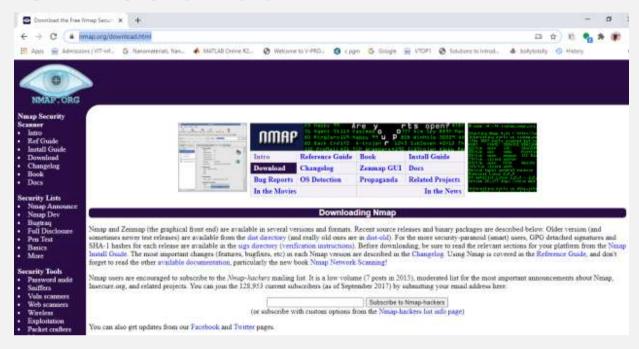
C:\Users\DELL>cd C:\Program Files\nmap-7.80

C:\Program Files\nmap-7.80>nmap --help
Nmap 7.80 ( https://nmap.org )
Usage: nmap [Scan Type(s)] [Options] {target specification}

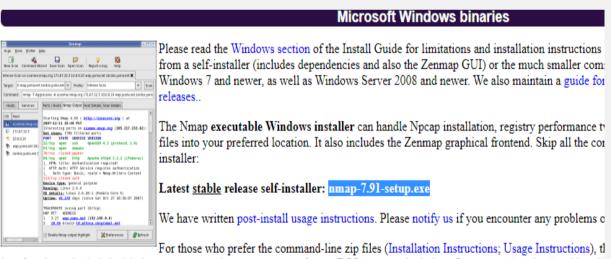
TARGET SPECIFICATION:
    Can pass hostnames, IP addresses, networks, etc.
    Ex: scanme.nmap.org, microsoft.com/24, 192.168.0.1; 10.0.0-255.1-254
    -iL <inputfilename>: Input from list of hosts/networks
    -iR <num hosts>: Choose random targets
    -exclude <host1[,host2][,host3],...>: Exclude hosts/networks
    -excludefile <exclude_file>: Exclude list from file
```

CASE2: FOR WORKING IN ZENMAP GUI:

Step1: Visit Nmap.org (https://nmap.org/download.html)

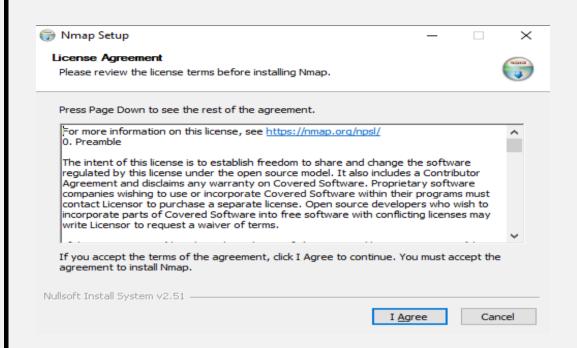


Step2: Click the set up (exe files) for downloading the zenmap

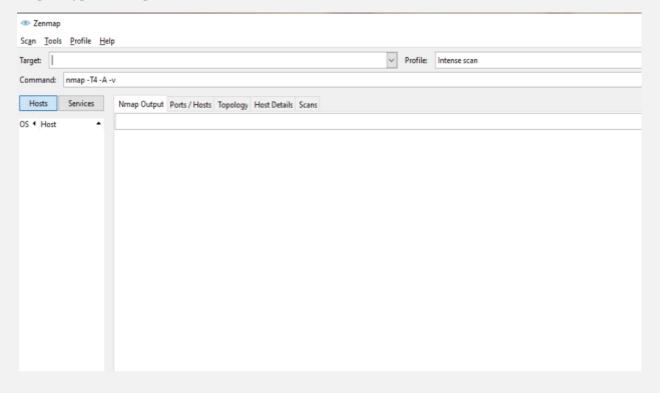


For those who prefer the command-line zip files (Installation Instructions; Usage Instructions), the interface is not included with these, so you need to run nmap exe from a DOS/command window. Or you can download and install with the free Cygwin system. Also, you need to run the Npcap and Microsoft Visual C++ 2013 Redistributable Package installers valvantage is that these zip files are a fraction of the size of the executable installer:

Step3: Follow the next steps to complete the zenmap



Step4: Type Zenmap in search bar and click the icon



SERIES OF FEATURES EXECUTED.

1) BASIC SCANS

i) SCANNING USING DNS

While entering the command DNS is converted to IP address and then scan is performed.

ii) SCANNING MULTIPLE SITES

While entering the command DNS is converted to IP address and then scan is performed for multiple sites

iii) SCANNING A GIVEN RANGE OF IP ADDRESS.

Sequentially each IP address is scanned and overall result is displayed.

2) VARIOUS TYPES OF SCANS

i) TCP SYN SCAN

TCP SYN scan is a most popular and default scan in Nmap because it perform quickly compare to other scan types and it is also less likely to block from firewalls. Another reason is that when it comes to states open, closed and filtered, TCP SYN scan gives a clear definition. Main concept behind this scan is TCP three way handshake. TCP SYN scan required raw-packet privileges that needs root access

ii) TCP ACK SCAN

This scan is different than the others, in that it never determines open (or even open filtered) ports. It is used to map out firewall rulesets, determining whether they are stateful or not and which ports are filtered.

ACK scan is enabled by specifying the -sA option. Its probe packet has only the ACK flag set (unless you use --scanflags). When scanning unfiltered systems, open and closed ports will both return a RST packet. Nmap then labels them as unfiltered, meaning that they are reachable by the ACK packet, but whether they are open or closed is undetermined. Ports that don't respond, or send certain ICMP error messages back, are labeled filtered.

iii) UDP SCAN

UDP scan works by sending a UDP packet to every targeted port. For some common ports such as 53 and 161, a protocol-specific payload is sent to increase response rate, but for most ports the packet is empty unless the --data, --data-string, or --data-length options are specified. If an ICMP port unreachable error (type 3, code 3) is returned, the port is closed. Other ICMP unreachable errors (type 3, codes 0, 1, 2, 9, 10, or 13) mark the port as filtered. Occasionally, a service will respond with a UDP packet, proving that it is open. If no response is received after retransmissions, the port is classified as open|filtered. This means that the port could be open, or

iv) TCP WINDOW SCAN

Window scan is exactly the same as ACK scan except that it exploits an implementation detail of certain systems to differentiate open ports from closed ones, rather than always printing unfiltered when a RST is returned. It does this by examining the TCP Window value of the RST packets returned

v) TCP MAIMON SCAN

The scan does not open the port, it tests if the port is open or not. This is useful for enumeration, it can not only help enumerate that the target host may be a BSD derived system, but that the port that is being targeted is open, which you can tell by the absence of a reply.

vi) AGGRESSIVE SCANNING/ADVANCED SCANNING

Nmap has an aggressive mode that enables OS detection, version detection, script scanning, and traceroute. You can use the -A argument to perform an aggressive scan. Aggressive scans provide far better information than regular scans.

3) HOST DISCOVERY

i) LISTING OUT THE TARGETS

This is just to identify which all targets

ii) PORT SCAN

Does any of the above scan mentioned.

iii) HOST DISCOVERY WITHOUT PORT SCAN

This is to check is a host is accepting responses or not. This helps hackers to differentiate between active and inactive ports.

4) FIREWALL DETECTION

A firewall is a network security device which, based on a set of security rules, monitors incoming and outgoing network traffic and permits or blocks data packets. In order to block malicious traffic such as viruses and hackers, its purpose is to create a firewall between your internal network and incoming traffic from external sources (such as the internet). Nmap has a simplified recognition feature for firewall filtering that can be used to recognize port filtering based on ACK probe responses. To evaluate the filtering status, this feature may be used to assess a single port or multiple ports in sequence. You would need to have a remote system that runs network services to use Nmap to perform firewall identification. In addition, you will need to incorporate some kind of mechanism for filtering. This can be achieved with an individual firewall system or with Windows firewall host-based filtering. You should be able to change the results of scans by modifying the filtering settings on the firewall system.

5) SQL INJECTION

SQL injection is a code injection technique that might destroy our database. It usually occurs when we ask users

for input like their username and passwords. The exploiter tries to input some queries through the field to modify/change the database. Similarly, URL containing queries can also be modified to perform a SQL injection

With the help of NMAP we can scan our website for possible SQL injections so that we can make our site better prepared from sql attacks. NMAP first finds URLs containing queries of the website. It then proceeds to combine crafted SQL commands with susceptible URLs in order to obtain errors. The errors are then analysed to see if the URL is vulnerable to attack or not.

http-sql-injection is the command used in nmap for sql injection

6) VULNERABILITY SCANNING

A vulnerability is a weakness in an information system, system security procedures, internal controls, or implementation that could be exploited or triggered by a threat source. While Nmap isn't a comprehensive vulnerability scanner, NSE(Nmap Scripting Engine) scripts like vulners, vulscan etc can be used to perform vulnerability checks on websites/web servers.

The Nmap vulners NSE script works by getting the CPE (Common Platform Enumeration or standard name) of software on each port on the targeted IP and then makes a request to 'vulners.com' to get known vulnerabilities for the CPEs, vulnerabilities are then displayed in order of descending CVSS score along with a link to the 'vulners.com' page for the vulnerability. An attacker can then use these vulnerabilities to exploit a web application.

Nmap vulscan NSE script performs a similar operation but uses a local database for vulnerabilities as compared to vulners which gets vulnerabilities from 'vulners.com'. One advantage of 'vulscan' is that it allow for user to provide their own vulnerability database but 'vulners' may provide more up to date information.

CODING

CASE 1: USING COMMAND PROMPT

1) BASIC SCANS

i) SCANNING USING DNS

Command: nmap scanme.nmap.org

```
C:\Users\DELL>nmap scanme.nmap.org
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-16 23:59 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.28s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
          STATE
PORT
                   SERVICE
22/tcp
          open
                   ssh
25/tcp
          filtered smtp
80/tcp
          open
                   http
9929/tcp open
                   nping-echo
31337/tcp open
                   Elite
Nmap done: 1 IP address (1 host up) scanned in 62.21 seconds
C:\Users\DELL>
```

ii) SCANNING MULTIPLE SITES TOGETHER

Command: nmap scanme.nmap.org www.google.com

```
C:\Users\DELL>nmap scanme.nmap.org www.google.com
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 00:53 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.29s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
PORT
          STATE
                    SERVICE
22/tcp
                    ssh
          open
25/tcp
          filtered smtp
80/tcp
                    http
          open
9929/tcp open
                    nping-echo
31337/tcp open
                    Elite
Nmap scan report for www.google.com (172.217.19.164)
Host is up (0.0092s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:801::2004
rDNS record for 172.217.19.164: zrh04s07-in-f4.1e100.net
Not shown: 998 filtered ports
        STATE SERVICE
PORT
80/tcp open http
443/tcp open https
Nmap done: 2 IP addresses (2 hosts up) scanned in 12.57 seconds
C:\Users\DELL>
```

iii) SCANNING USING IP ADDRESS FOR A GIVEN RANGE

Command: nmap 192.168.1.1-254

```
C:\Users\DELL>nmap 192.168.1.1-254
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 00:55 India Standard Time
Nmap scan report for 192.168.1.1
Host is up (0.0049s latency).
All 1000 scanned ports on 192.168.1.1 are closed (511) or filtered (489)

Nmap scan report for 192.168.1.2
Host is up (0.0073s latency).
All 1000 scanned ports on 192.168.1.2 are closed (511) or filtered (489)

Nmap done: 254 IP addresses (2 hosts up) scanned in 42.98 seconds

C:\Users\DELL>
```

2) VARIOUS TYPES OF SCANS

i) TCP SYN SCAN

Command: nmap scanme.nmap.org -sS

```
C:\Users\DELL>nmap scanme.nmap.org -sS
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 00:59 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.31s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
PORT
          STATE
                   SERVICE
22/tcp
          open
                   ssh
25/tcp
          filtered smtp
80/tcp
         open
                   http
9929/tcp open
                   nping-echo
31337/tcp open
                   Elite
Nmap done: 1 IP address (1 host up) scanned in 32.76 seconds
C:\Users\DELL>
```

ii) UDP SCAN

Command: nmap scanme.nmap.org -sU

```
C:\Users\DELL>nmap www.google.com -sU
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:16 India Standard Time
Nmap scan report for www.google.com (216.58.208.228)
Host is up (0.013s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:805::2004
rDNS record for 216.58.208.228: par10s22-in-f4.1e100.net
Not shown: 998 open|filtered ports
PORT STATE SERVICE
443/udp open https
33459/udp closed unknown

Nmap done: 1 IP address (1 host up) scanned in 8.86 seconds

C:\Users\DELL>
```

iii) TCP ACK SCAN

Command: nmap www.google.com -sA

```
C:\Users\DELL>nmap www.google.com -sA
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:24 India Standard Time
Nmap scan report for www.google.com (216.58.208.228)
Host is up (0.024s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:801::2004
rDNS record for 216.58.208.228: par10s22-in-f4.1e100.net
Not shown: 998 filtered ports
PORT STATE SERVICE
80/tcp unfiltered http
443/tcp unfiltered https
Nmap done: 1 IP address (1 host up) scanned in 6.43 seconds
C:\Users\DELL>
```

iv) TCP WINDOW SCAN

Command: nmap www.google.com -sW

```
C:\Users\DELL>nmap www.google.com -sW
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:25 India Standard Time
Nmap scan report for www.google.com (216.58.208.228)
Host is up (0.025s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:801::2004
rDNS record for 216.58.208.228: par10s22-in-f228.1e100.net
Not shown: 998 filtered ports
PORT STATE SERVICE
80/tcp closed http
443/tcp closed https

Nmap done: 1 IP address (1 host up) scanned in 5.84 seconds
```

iv) TCP MAIMON SCAN

Command: nmap www.google.com -sM

```
C:\Users\DELL>nmap www.google.com -sM
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:25 India Standard Time
Nmap scan report for www.google.com (172.217.19.164)
Host is up (0.039s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:801::2004
rDNS record for 172.217.19.164: zrh04s07-in-f164.1e100.net
All 1000 scanned ports on www.google.com (172.217.19.164) are open|filtered

Nmap done: 1 IP address (1 host up) scanned in 43.67 seconds

C:\Users\DELL>
```

v) ADVANCED SCANNING/ AGGRESSIVE SCANNING

Command: nmap www.google.com -A

```
C:\Users\DELL>nmap www.google.com -A
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:30 India Standard Time
Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:30 India Standard Time
Nmap scan report for www.google.com (216.58.208.228)
Host is up (0.011s latency).
Other addresses for www.google.com (not scanned): 2a00:1450:4019:801::2004
rDNS record for 216.58.208.228: par10s22-in-f228.1e100.net
Not shown: 998 filtered ports
PORT STATE SERVICE VERSION
80/tcp open http gws
| fingerprint-strings:
| GetRequest:
| HTTP/1.0 200 OK |
| Date: Fri, 16 Oct 2020 20:01:15 GMT |
| Expires: -1 |
| Cache-Control: private, max-age=0 |
| Content-Type: text/html; charset=ISO-8859-1 |
| P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."
| Server: gws |
| X-XSS-Protection: 0 |
| X-Frame-Options: SAMEORIGIN |
| Set-Cookie: 1P_JAR=2020-10-16-20; expires=Sun, 15-Nov-2020 20:01:15 GMT; path=/; domain=.google.coming |
| Set-Cookie: NID=204=wDGNId06YgHd7lmgNW8GQBXrvze7ee63lBPznayw2HTNTCvxD08TSaPRAktmhRASIc-y3Z0qX49h5 |
| SEPxpWz8A283vG1677rC9KV8PRK6ejnBecyxFzh3LCjlkjvNLeum_dkhttL0X6Zq_E_TgWvzunCD4; expires=Sat, 17-Apr-2021 |
| the private of the
```

3) HOST DISCOVERY

i) LISTING THE TARGETS

Command: nmap 192.168.1.1-3 -sL

```
C:\Users\DELL>nmap 192.168.1.1-3 -sL
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:36 India Standard Time
Nmap scan report for 192.168.1.1
Nmap scan report for 192.168.1.2
Nmap scan report for 192.168.1.3
Nmap done: 3 IP addresses (0 hosts up) scanned in 0.60 seconds
C:\Users\DELL>
```

ii) DOING PORT SCAN

Command: nmap scanme.nmap.org -Pn

```
C:\Users\DELL>nmap scanme.nmap.org -Pn
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:37 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.28s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
          STATE
                   SERVICE
PORT
22/tcp
                   ssh
          open
25/tcp
          filtered smtp
80/tcp
                   http
         open
9929/tcp open
                   nping-echo
31337/tcp open
                   Elite
Nmap done: 1 IP address (1 host up) scanned in 9.79 seconds
C:\Users\DELL>
```

iii) HOST SCAN WITHOUT PORT SCAN

Command: nmap scanme.nmap.org -sn

```
C:\Users\DELL>nmap scanme.nmap.org -sn
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:39 India Standard Time
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.27s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Nmap done: 1 IP address (1 host up) scanned in 1.39 seconds
C:\Users\DELL>
```

4) WEB APPLICATION FIREWALL DETECTION

Command: nmap -p80 --script http-waf-detect www.loiliangyang.com

```
C:\Users\DELL>nmap -p80 --script http-waf-detect www.loiliangyang.com
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:42 India Standard Time
Nmap scan report for www.loiliangyang.com (50.87.253.167)
Host is up (0.26s latency).
rDNS record for 50.87.253.167: box2200.bluehost.com

PORT STATE SERVICE
80/tcp open http
| http-waf-detect: IDS/IPS/WAF detected:
|_www.loiliangyang.com:80/?p4yl04d3=<script>alert(document.cookie)</script>

Nmap done: 1 IP address (1 host up) scanned in 24.61 seconds

C:\Users\DELL>
```

5) SQL INJECTION ATTACK ON WEBSITE

Command: nmap -p80 -A --script http-sql-injection www.smelisting.net

Command Prompt

```
C:\Users\DELL>nmap -p80 -A --script http-sql-injection www.smelisting.net
Starting Nmap 7.80 (https://nmap.org) at 2020-10-17 01:45 India Standard Time
Wmap scan report for www.smelisting.net (118.67.248.199)
Host is up (0.16s latency).
rDNS record for 118.67.248.199: corp12.net4india.com
PORT STATE SERVICE VERSION
80/tcp open http Apache httpd 2.4.3 ((Unix) OpenSSL/1.0.0-fips PHP/5.4.7)
 http-server-header: Apache/2.4.3 (Unix) OpenSSL/1.0.0-fips PHP/5.4.7
 http-sql-injection:
    Possible sqli for queries:
|____http://www.smelisting.net:80/corner_category.php?id=7%27%200R%20sqlspider
|Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed por
Aggressive OS guesses: OpenWrt 12.09-rc1 Attitude Adjustment (Linux 3.3 - 3.7) (92%), Linux 2.6.32
NanoStation WAP (Linux 2.6.32) (92%), Linux 3.5 (92%), Linux 3.8 (92%), Linux 2.6.32 - 3.10 (91%)
(91%), Linux 2.6.32 - 3.9 (91%), XBMCbuntu Frodo v12.2 (Linux 3.X) (91%), Linux 3.2 (91%)
No exact OS matches for host (test conditions non-ideal).
Wetwork Distance: 12 hops
```



6) VULNERABILITY SCANNING

Command: nmap -sV --script=vulners -v www.smelisting.net

```
Command Prompt
    Users\DELL>nmap
                                       --script=vulners
                                                                   -v www.smelisting.net
Starting Nmap 7.80 ( https://nmap.org ) at 2020-10-17 01:52 India Standard Time
NSE: Loaded 46 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 01:52
Completed NSE at 01:52, 0.00s elapsed
Initiating NSE at 01:52
Completed NSE at 01:52, 0.00s elapsed
Initiating Ping Scan at 01:52
Scanning www.smelisting.net (118.67.248.199) [4 ports]
Completed Ping Scan at 01:52, 0.36s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 01:52
Completed Parallel DNS resolution of 1 host. at 01:52, 0.35s elapsed Initiating SYN Stealth Scan at 01:52
Scanning www.smelisting.net (118.67.248.199) [1000 ports]
Discovered open port 22/tcp on 118.67.248.199
Discovered open port 80/tcp on 118.67.248.199
Discovered open port 21/tcp on 118.67.248.199
Discovered open port 3306/tcp on 118.67.248.199
Discovered open port 443/tcp on 118.67.248.199
Discovered open port 30/tcp on 118.67.248.199
Completed SYN Stealth Scan at 01:53, 5.00s elapsed (1000 total ports)
Initiating Service scan at 01:53
Scanning 6 services on www.smelisting.net (118.67.248.199)
Completed Service scan at 01:55, 158.30s elapsed (6 services on 1 host)
NSE: Script scanning 118.67.248.199.
Initiating NSE at 01:55
Completed NSE at 01:55, 5.26s elapsed
Initiating NSE at 01:55
Completed NSE at 01:55, 3.57s elapsed
```

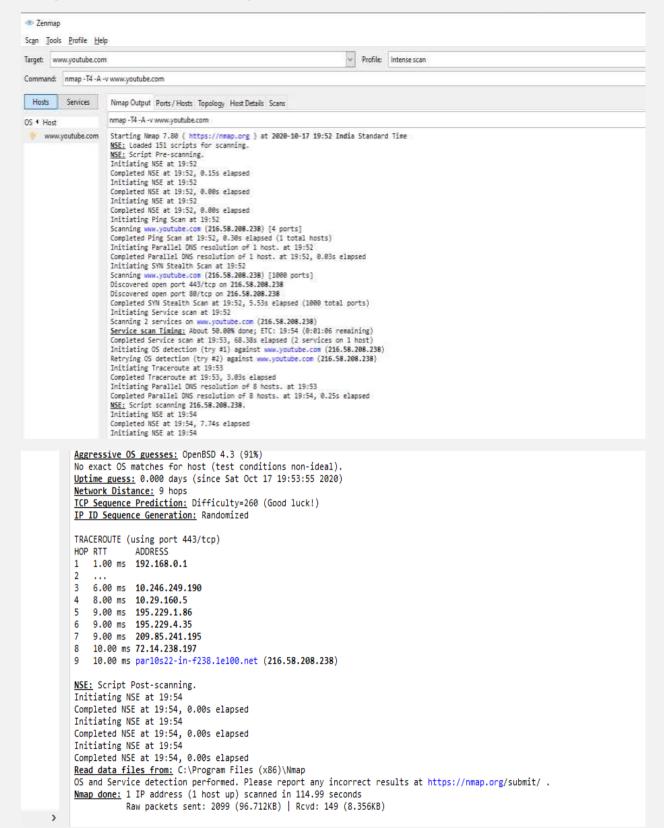
```
Command Prompt
        filtered netbios-ssn
139/tcp
                 ssl/https
                               Apache/2.4.3 (Unix) OpenSSL/1.0.0-fips PHP/5.4.7
443/tcp open
_http-server-header: Apache/2.4.3 (Unix) OpenSSL/1.0.0-fips PHP/5.4.7
45/tcp filtered microsoft-ds
1434/tcp filtered ms-sql-m
1443/tcp filtered ies-lm
306/tcp open
                               MySQL 5.1.73
                 mysql
 vulners:
   MySQL 5.1.73:
       CVE-2012-3163
                        9.0
                                https://vulners.com/cve/CVE-2012-3163
       CVE-2012-3158
                        7.5
                                https://vulners.com/cve/CVE-2012-3158
       CVE-2017-15945
                        7.2
                                https://vulners.com/cve/CVE-2017-15945
       CVE-2013-0389
                                https://vulners.com/cve/CVE-2013-0389
                        6.8
       CVE-2013-0384
                        6.8
                                https://vulners.com/cve/CVE-2013-0384
       CVE-2012-5060
                        6.8
                                https://vulners.com/cve/CVE-2012-5060
       CVE-2012-1703
                        6.8
                                https://vulners.com/cve/CVE-2012-1703
                                https://vulners.com/cve/CVE-2013-0385
       CVE-2013-0385
                        6.6
       CVE-2013-1521
                        6.5
                                https://vulners.com/cve/CVE-2013-1521
       CVE-2013-2378
                        6.0
                                https://vulners.com/cve/CVE-2013-2378
                                https://vulners.com/cve/CVE-2013-1552
       CVE-2013-1552
                        6.0
       CVE-2012-1702
                        5.0
                                https://vulners.com/cve/CVE-2012-1702
       CVE-2013-0383
                        4.3
                                https://vulners.com/cve/CVE-2013-0383
       CVE-2014-0412
                        4.0
                                https://vulners.com/cve/CVE-2014-0412
       CVE-2014-0402
                       4.0
                                https://vulners.com/cve/CVE-2014-0402
       CVE-2014-0401
                        4.0
                                https://vulners.com/cve/CVE-2014-0401
                                https://vulners.com/cve/CVE-2014-0386
       CVE-2014-0386
                        4.0
       CVE-2013-3808
                        4.0
                                https://vulners.com/cve/CVE-2013-3808
                                https://vulners.com/cve/CVE-2013-3804
       CVE-2013-3804
                        4.0
       CVE-2013-3802
                        4.0
                                https://vulners.com/cve/CVE-2013-3802
       CVE-2013-2392
                                https://vulners.com/cve/CVE-2013-2392
                        4.0
4444/tcp filtered krb524
```

```
NSE: Script Post-scanning.
Initiating NSE at 01:55
Completed NSE at 01:55, 0.01s elapsed
Initiating NSE at 01:55
Completed NSE at 01:55
Completed NSE at 01:55
Completed NSE at 01:55, 0.00s elapsed
Read data files from: C:\Program Files\nmap-7.80
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 177.79 seconds
Raw packets sent: 1019 (44.812KB) | Rcvd: 1007 (40.344KB)

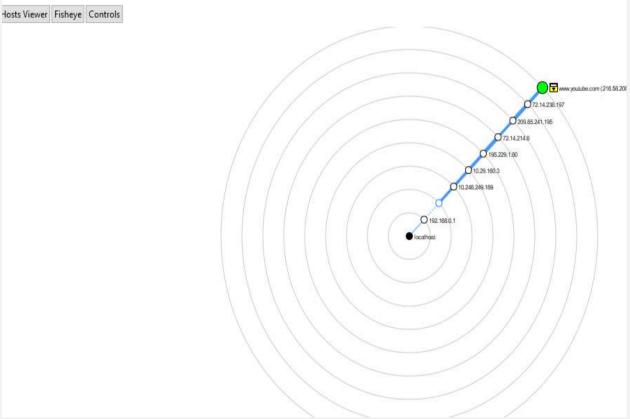
C:\Users\DELL>
```

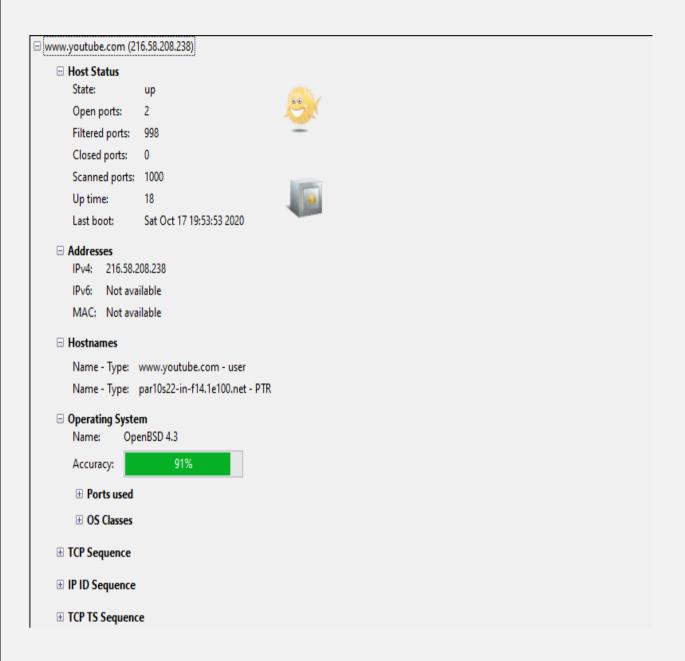
CASE 2: USING ZENMAP

Doing an intense scan and obtaining the results.









EXECUTION-VIDEO LINK

https://drive.google.com/drive/folders/14ZhAi1M - U80fjSZ_dxk5ZBBtXB9A0L4?usp=sharing

REFERENCES

- 1) https://nmap.org/
- 2) https://www.stationx.net/nmap-cheat-sheet/
- 3)https://www.youtube.com/watch?v=aCC1O9hSzWo&ab_channel=LinuxAcademy
- 4)https://www.youtube.com/playlist?list=PLBf0hzazHTG0EuhPQSnq-Ej8jRyXxfYvl
- 5)https://www.youtube.com/watch?v=xHTXUjLod6Q&ab_channel=RuitzeCoderz
- 6) https://www.youtube.com/watch?v=3U1pJ-eJrAU&ab_channel=NullByte