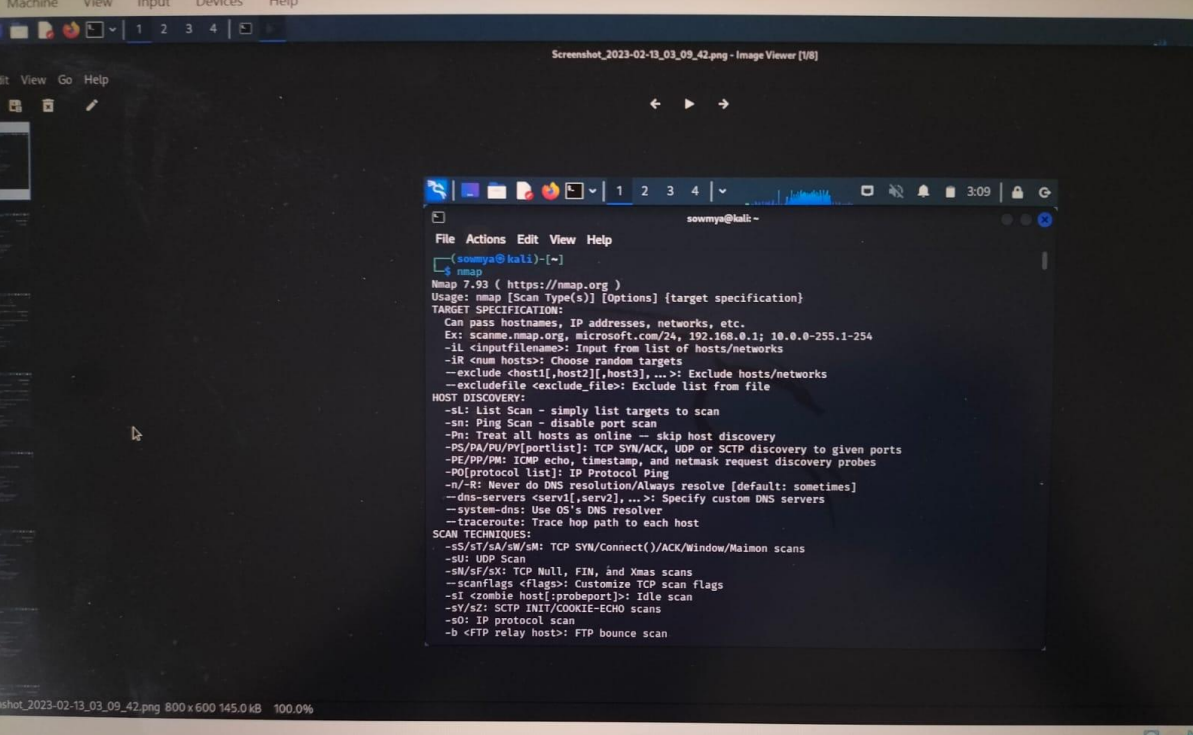


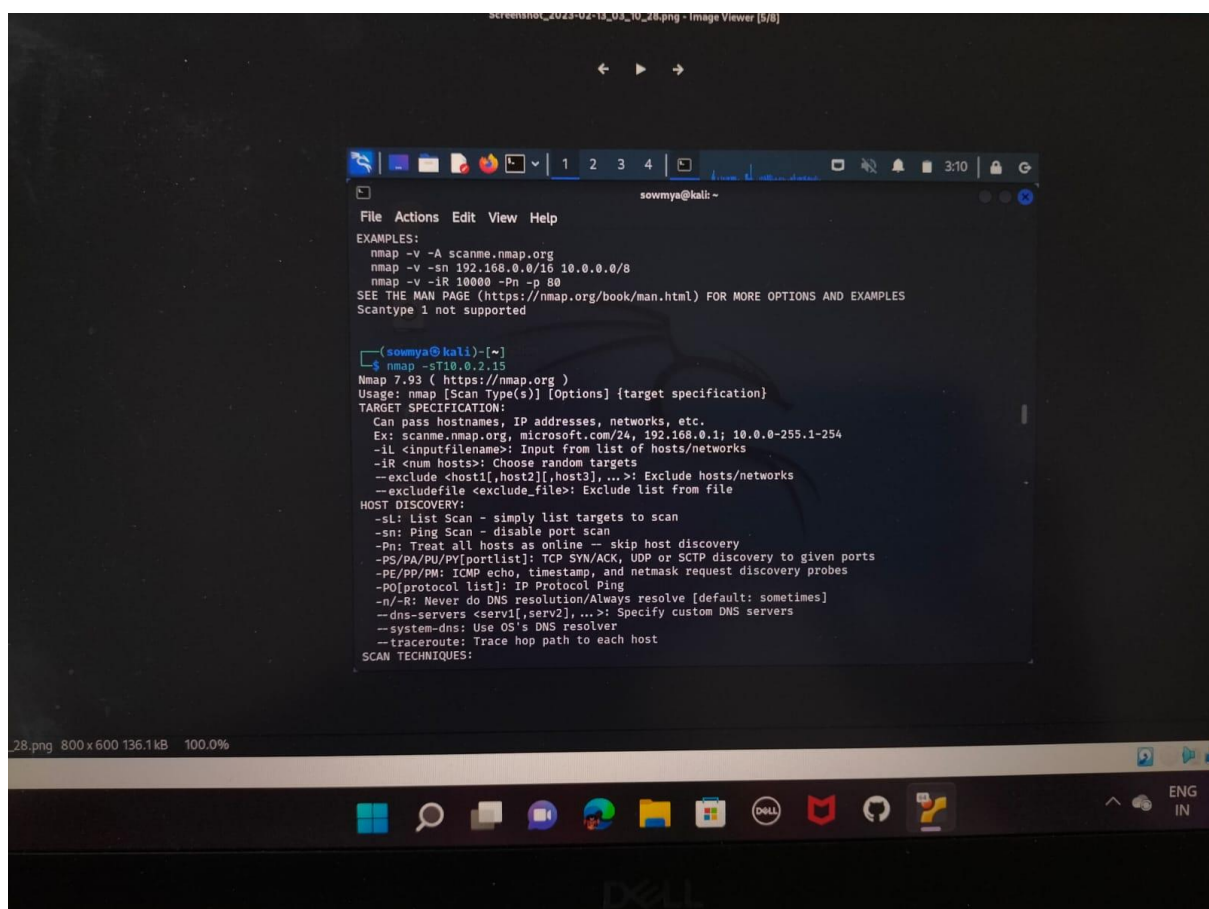
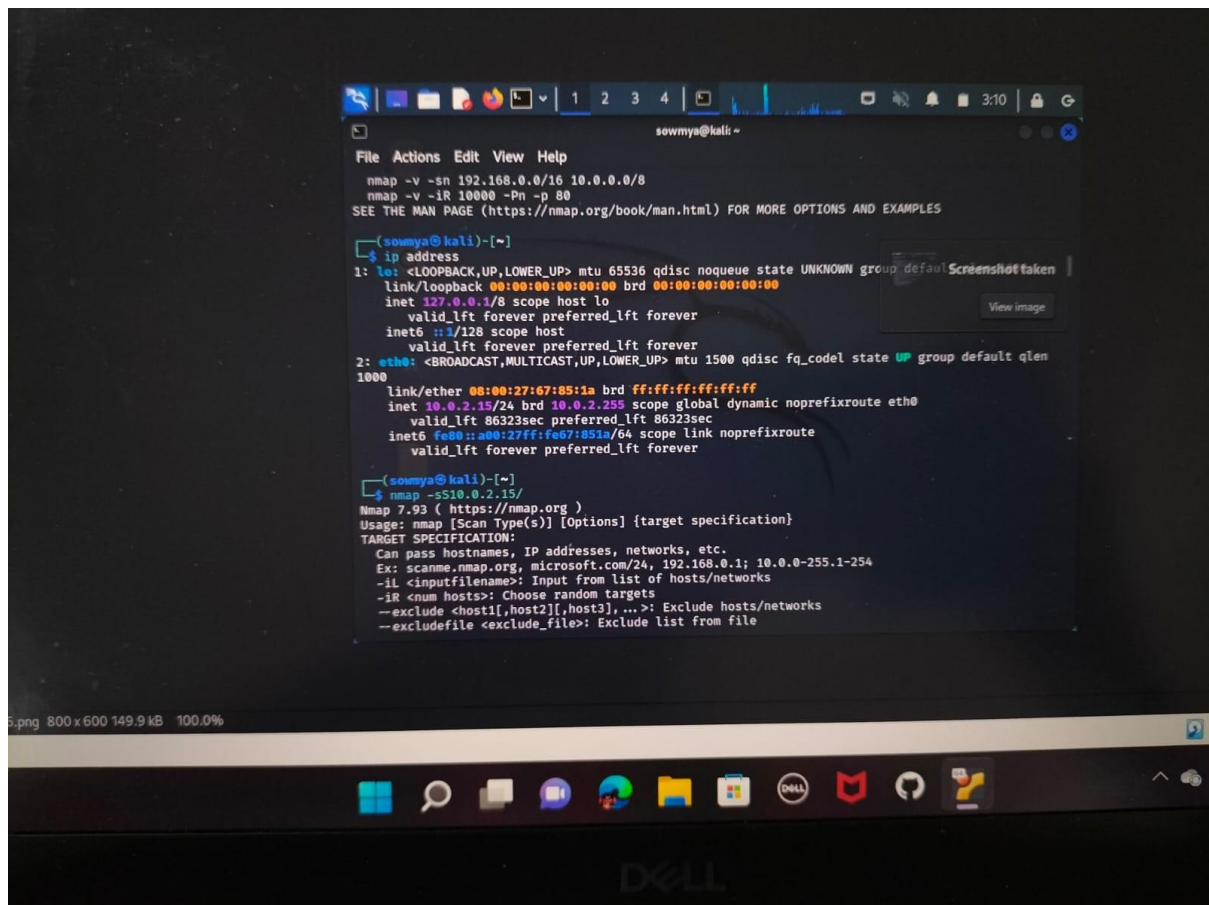
# ETHICAL HACKING MODEL LAB

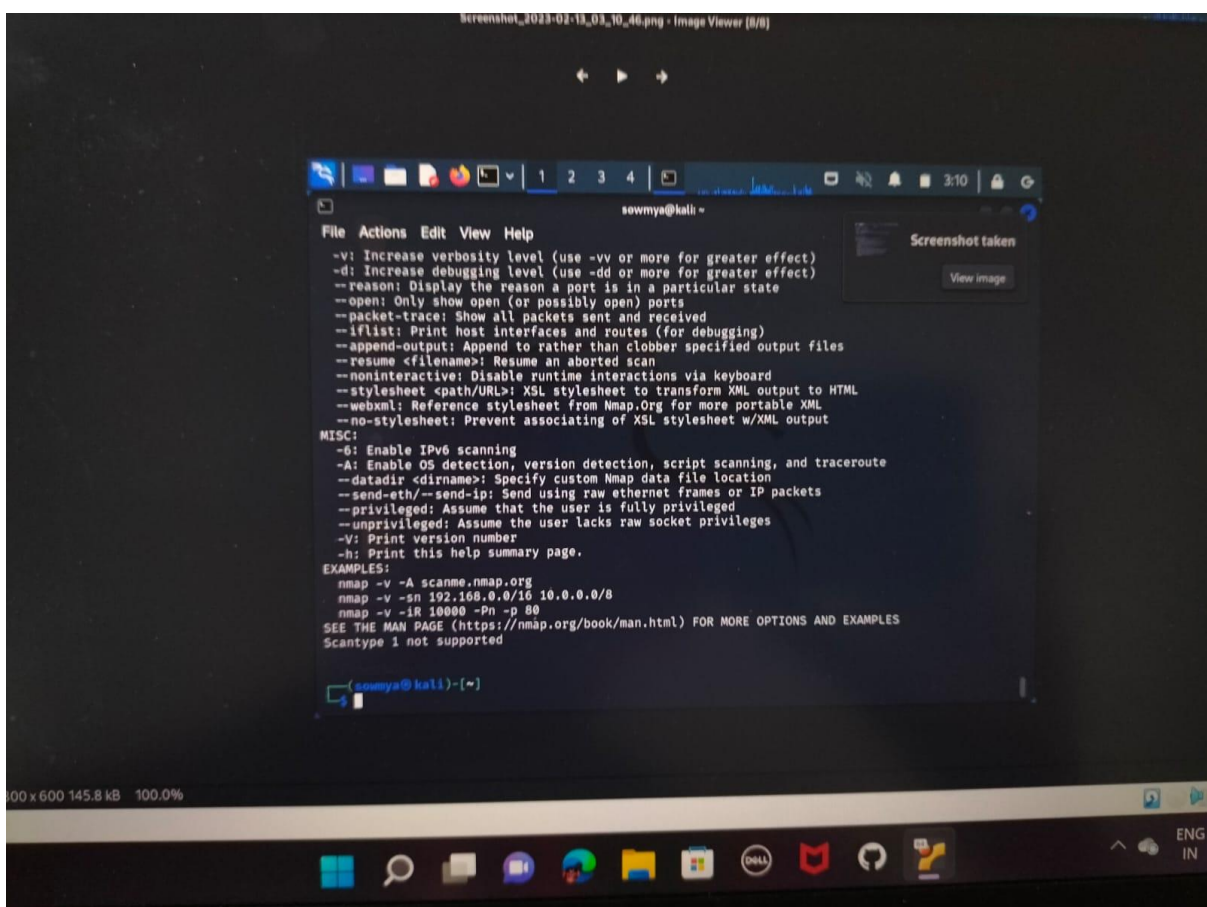
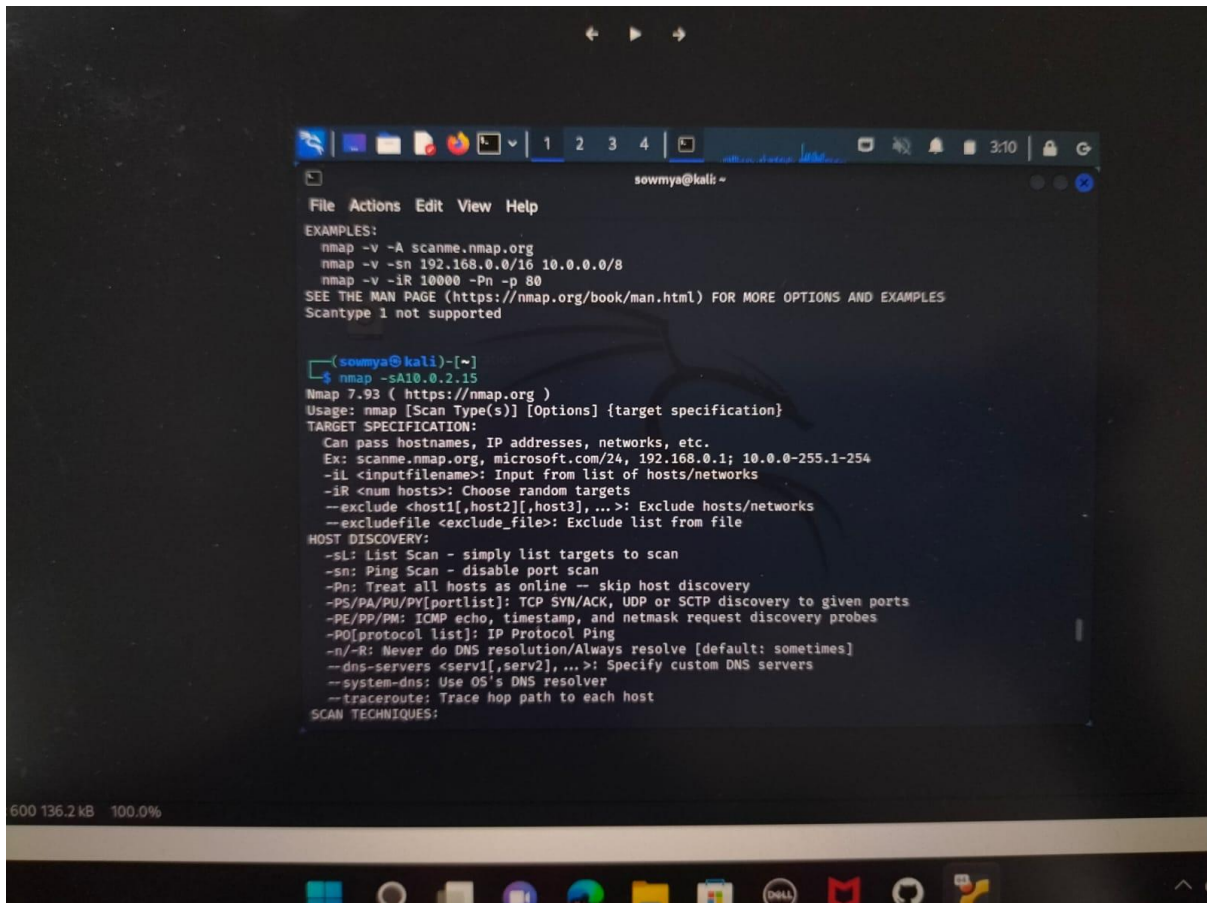
## QUESTION 3:



The screenshot shows a Kali Linux desktop environment. In the foreground, a terminal window titled 'sowmya@kali: ~' is open, displaying the help text for the 'nmap' command. The terminal output includes the version (7.93), usage instructions, target specification options, host discovery options, and scan techniques. The desktop background is dark, and the taskbar at the bottom shows various application icons. A window titled 'Screenshot\_2023-02-13\_03\_09\_42.png - Image Viewer [1/8]' is also visible in the background.

```
sowmya@kali: ~  
$ nmap  
Nmap 7.93 ( 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  
HOST DISCOVERY:  
  -sl: List Scan - simply list targets to scan  
  -sn: Ping Scan - disable port scan  
  -Pn: Treat all hosts as online - skip host discovery  
  -PS/PA/PU/Pi[portlist]: TCP SYN/ACK, UDP or SCTP discovery to given ports  
  -PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes  
  -PO[protocol list]: IP Protocol Ping  
  -n/-R: Never do DNS resolution/Always resolve [default: sometimes]  
  --dns-servers <serv1[,serv2],...>: Specify custom DNS servers  
  --system-dns: Use OS's DNS resolver  
  --traceroute: Trace hop path to each host  
SCAN TECHNIQUES:  
  -sS/sT/sA/sM/sM: TCP SYN/Connect()/ACK/Window/Maimon scans  
  -sU: UDP Scan  
  -sN/sF/sX: TCP Null, FIN, and Xmas scans  
  --scanflags <flags>: Customize TCP scan flags  
  -sI <zombie host[:probeport]>: Idle scan  
  -sV/s2s: SCTP INIT/COOKIE-ECHO scans  
  -sO: IP protocol scan  
  -b <FTP relay host>: FTP bounce scan
```





## QUESTION 2:

```
(keerthana@kali)-[~]
$ nikto -h www.zoho.com -tuning x
Unknown option: tuning

-config+      Use this config file
-Display+     Turn on/off display outputs
-dbcheck      check database and other key files for syntax errors
-Format+     save file (-o) format
-Help         Extended help information
-host+       target host/URL
-id+         Host authentication to use, format is id:pass or id:pass:realm
-list-plugins List all available plugins
-output+     Write output to this file
-noSSL       Disables using SSL
-no404       Disables 404 checks
-Plugins+    List of plugins to run (default: ALL)
-port+       Port to use (default 80)
-root+       Prepend root value to all requests, format is /directory
-ssl         Force ssl mode on port
-tuning+     Scan tuning
-timeout+    Timeout for requests (default 10 seconds)
-update      Update databases and plugins from CIRT.net
-Version     Print plugin and database versions
-vhost+     Virtual host (for Host header)
            + requires a value

Note: This is the short help output. Use -H for full help text.
```


```
(keerthana@kali)-[~]
$ nikto -h www.certifiedhacker.com -cgidirs all
Unknown option: cgidirs

-config+      Use this config file
-Display+     Turn on/off display outputs
-dbcheck      check database and other key files for syntax errors
-Format+     save file (-o) format
-Help         Extended help information
-host+       target host/URL
-id+         Host authentication to use, format is id:pass or id:pass:realm
-list-plugins List all available plugins
-output+     Write output to this file
-noSSL       Disables using SSL
-no404       Disables 404 checks
-Plugins+    List of plugins to run (default: ALL)
-port+       Port to use (default 80)
-root+       Prepend root value to all requests, format is /directory
-ssl         Force ssl mode on port
-tuning+     Scan tuning
-timeout+    Timeout for requests (default 10 seconds)
-update      Update databases and plugins from CIRT.net
-Version     Print plugin and database versions
-vhost+     Virtual host (for Host header)
            + requires a value

Note: This is the short help output. Use -H for full help text.
```



## QUESTION 1:



```
model 1.png
Kali Linux [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4 |

File Actions Edit View Help
--scan-delay/-max-scan-delay <time>: Adjust delay between probes
--min-rate <number>: Send packets no slower than <number> per second
--max-rate <number>: Send packets no faster than <number> per second
FIREWALL/IDS EVASION AND SPOOFING:
-f/-mtu <val>: fragment packets (optionally w/given MTU)
-D <decoy[,decoy2[,ME],...>: Cloak a scan with decoys
-S <IP_Address>: Spoof source address
-e <iface>: Use specified interface
-g/-source-port <portnum>: Use given port number
--proxies <url1[,url2],...>: Relay connections through HTTP/SOCKS4 proxies
--data <hex string>: Append a custom payload to sent packets
--data-string <string>: Append a custom ASCII string to sent packets
--data-length <num>: Append random data to sent packets
--ip-options <options>: Send packets with specified ip options
--ttl <val>: Set IP time-to-live field
--spooft-mac <mac address/prefix/vendor name>: Spoof your MAC address
--badsum: Send packets with a bogus TCP/UDP/SCTP checksum
OUTPUT:
-oN/-oX/-oS/-oG <file>: Output scan in normal, XML, sI, rIpt kIddi3,
and Greppable format, respectively, to the given filename.
-oA <basename>: Output in the three major formats at once
-v: Increase verbosity level (use -vv or more for greater effect)
-d: Increase debugging level (use -dd or more for greater effect)
--reason: Display the reason a port is in a particular state
--open: Only show open (or possibly open) ports
--packet-trace: Show all packets sent and received
--iflist: Print host interfaces and routes (for debugging)
--append-output: Append to rather than clobber specified output files
--resume <filename>: Resume an aborted scan
--noninteractive: Disable runtime interactions via keyboard
--stylesheet <path/URL>: XSL stylesheet to transform XML output to HTML
--webxml: Reference stylesheet from Nmap.Org for more portable XML
--no-stylesheet: Prevent associating of XSL stylesheet w/XML output
MISC:
-6: Enable IPv6 scanning
-A: Enable OS detection, version detection, script scanning, and traceroute
--datadir <dirname>: Specify custom Nmap data file location
--send-eth/-send-ip: Send using raw ethernet frames or IP packets
--privileged: Assume that the user is fully privileged
--unprivileged: Assume the user lacks raw socket privileges
-V: Print version number
-h: Print this help summary page.
EXAMPLES:
nmap -v -A scanme.nmap.org
nmap -v -sn 192.168.0.0/16 10.0.0.0/8
nmap -v -iR 10000 -Pn -p 80
SEE THE MAIN PAGE (https://nmap.org/book/man.html) FOR MORE OPTIONS AND EXAMPLES

(keerthana@kali)-[~]
$ ip address
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
        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 08:00:27:14:cf:51 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 84874sec preferred_lft 84874sec
    inet6 fe80::a00:27ff:fe14:cf51/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

(keerthana@kali)-[~]
$ nmap -PR 10.0.2.15
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-13 03:07 EST
Nmap scan report for 10.0.2.15
Host is up (0.000086s latency).
All 1000 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.07 seconds

(keerthana@kali)-[~]
$ nmap -n 10.0.2.15
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-13 03:08 EST
Nmap scan report for 10.0.2.15
Host is up (0.000059s latency).
All 1000 scanned ports on 10.0.2.15 are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)

Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds

(keerthana@kali)-[~]
```



Kali Linux [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 2 3 4

```
File Actions Edit View Help
(keerthana@kali)-[~]
$ cd Documents
(keerthana@kali)-[~/Documents]
$ mkdir penetration testing
mkdir: cannot create directory 'penetration': File exists
mkdir: cannot create directory 'testing': File exists
(keerthana@kali)-[~/Documents]
$ ls
penetration testing
(keerthana@kali)-[~/Documents]
$ mkdir penetration testing
mkdir: cannot create directory 'penetration': File exists
mkdir: cannot create directory 'testing': File exists
(keerthana@kali)-[~/Documents]
$ sudo nano files
[sudo] password for keerthana:
(keerthana@kali)-[~/Documents]
$ mkdir penetration testing
mkdir: cannot create directory 'penetration': File exists
mkdir: cannot create directory 'testing': File exists
(keerthana@kali)-[~/Documents]
$ ls
files penetration testing
(keerthana@kali)-[~/Documents]
$ cd Desktop
cd: no such file or directory: Desktop
(keerthana@kali)-[~/Documents]
$ sudo nano files
(keerthana@kali)-[~/Documents]
$ cd Desktop
cd: no such file or directory: Desktop
(keerthana@kali)-[~/Documents]
$ ls
files penetration testing
(keerthana@kali)-[~/Documents]
$ cat files
bhavi
sravs
keerthi
(keerthana@kali)-[~/Documents]
$ rm -rf files
(keerthana@kali)-[~/Documents]
$ ls
penetration testing
(keerthana@kali)-[~/Documents]
$ rm pics.png
rm: cannot remove 'pics.png': No such file or directory
(keerthana@kali)-[~/Documents]
$ rm pics.png
(keerthana@kali)-[~/Documents]
$ ls
penetration testing
(keerthana@kali)-[~/Documents]
$
```

