Lab Ethecal Hacking Nmap

Targets the network range

```
┌──(kali㉿kali)-[~]
└─$ nmap 10.29.2.0/24
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-29 03:17 EDT
Stats: 0:00:30 elapsed; 13 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.39% done
```

Disables Port scanning

```
┌──(kali㉿kali)-[~]
└─$ nmap -sn
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-29 03:22 EDT
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.00 seconds
```

Stores the results in all formats starting with name 'Tnet'

```
┌──(kali㉿kali)-[~]
└─$ nmap 10.29.2.0/24 -oA tnet

Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-29 03:24 EDT
Stats: 0:00:31 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.47% done
Stats: 0:00:31 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.58% done
Stats: 0:00:32 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.62% done
Stats: 0:00:33 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.62% done
Stats: 0:00:35 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.63% done
Stats: 0:00:35 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.63% done
Stats: 0:00:39 elapsed; 10 hosts completed (64 up), 64 undergoing Connect Scan
Connect Scan Timing: About 0.65% done
```

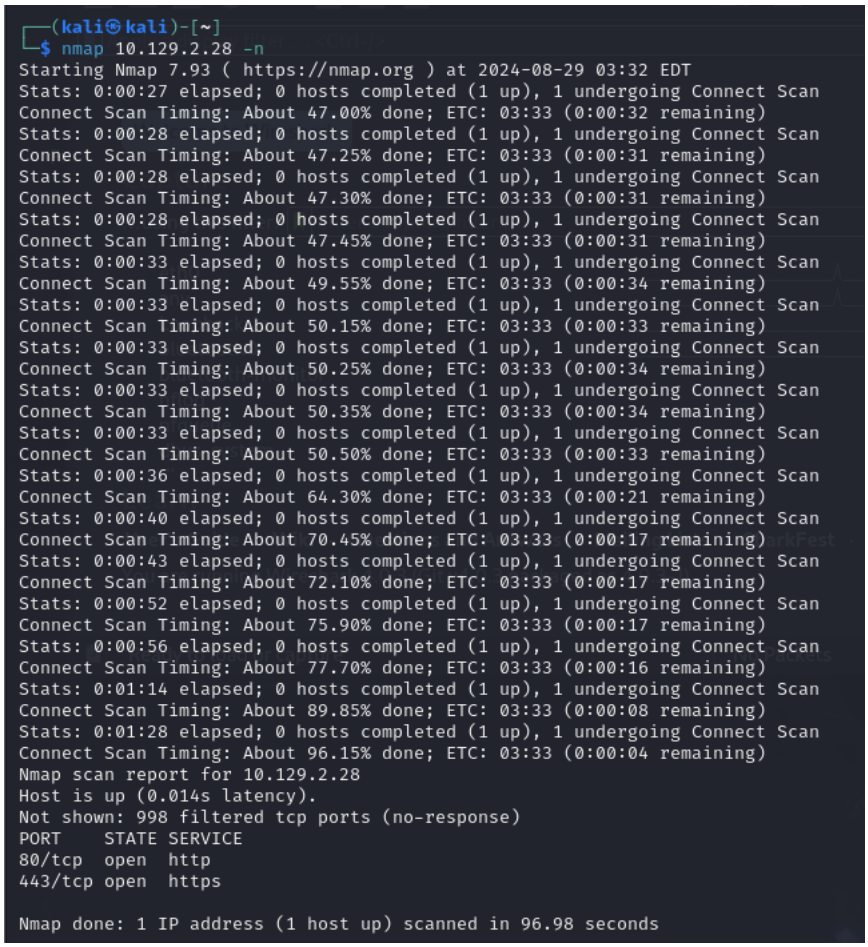
Scans only specified port

```
┌──(kali㉿kali)-[~]
└─$ nmap 10.129.2.28 -p 21
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-29 03:28 EDT
Nmap scan report for 10.129.2.28
Host is up (0.0050s latency).

PORT   STATE    SERVICE
21/tcp filtered ftp

Nmap done: 1 IP address (1 host up) scanned in 0.28 seconds
```

Disables DNS resolution



To enable verbose mode

To get the source port

To trace the packet

```
┌──(kali㉿kali)-[~]
└─$ nmap 10.129.2.28 --packet-trace
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-29 03:36 EDT
CONN (0.0504s) TCP localhost > 10.129.2.28:80 ⇒ Operation now in progress
CONN (0.0507s) TCP localhost > 10.129.2.28:443 ⇒ Operation now in progress
CONN (0.0556s) TCP localhost > 10.129.2.28:80 ⇒ Connected
NSOCK INFO [0.0560s] nsock_iod_new2(): nsock_iod_new (IOD #1)
NSOCK INFO [0.0560s] nsock_connect_udp(): UDP connection requested to 192.168.2.2:53 (IOD #1) EID 8
NSOCK INFO [0.0560s] nsock_read(): Read request from IOD #1 [192.168.2.2:53] (timeout: -1ms) EID 18
NSOCK INFO [0.0560s] nsock_write(): Write request for 42 bytes to IOD #1 EID 27 [192.168.2.2:53]
NSOCK INFO [0.0560s] nsock_trace_handler_callback(): Callback: CONNECT SUCCESS for EID 8 [192.168.2.2:53]
NSOCK INFO [0.0560s] nsock_trace_handler_callback(): Callback: WRITE SUCCESS for EID 27 [192.168.2.2:53]
NSOCK INFO [0.0640s] nsock_trace_handler_callback(): Callback: READ SUCCESS for EID 18 [192.168.2.2:53] (119 bytes)
NSOCK INFO [0.0640s] nsock_read(): Read request from IOD #1 [192.168.2.2:53] (timeout: -1ms) EID 34
NSOCK INFO [0.0640s] nsock_iod_delete(): nsock_iod_delete (IOD #1)
NSOCK INFO [0.0640s] nevent_delete(): nevent_delete on event #34 (type READ)
CONN (0.0653s) TCP localhost > 10.129.2.28:554 ⇒ Operation now in progress
CONN (0.0655s) TCP localhost > 10.129.2.28:5900 ⇒ Operation now in progress
CONN (0.0657s) TCP localhost > 10.129.2.28:445 ⇒ Operation now in progress
CONN (0.0660s) TCP localhost > 10.129.2.28:1720 ⇒ Operation now in progress
```

```
CONN (166.5386s) TCP localhost > 10.129.2.28:3809 ⇒ Operation now in progress
CONN (166.8603s) TCP localhost > 10.129.2.28:3809 ⇒ Operation now in progress
Nmap scan report for 10.129.2.28
Host is up (0.019s latency).
Not shown: 995 filtered tcp ports (no-response), 3 filtered tcp ports (host-unreach)
PORT    STATE SERVICE
80/tcp  open  http
443/tcp open  https
```

Script scan to gather more information

```
┌──(kali㉿kali)-[~/nithesh]
└─$ nmap -sC 10.29.2.0/24
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-31 12:40 EDT
Stats: 0:01:25 elapsed; 0 hosts completed (0 up), 256 undergoing Ping Scan
Ping Scan Timing: About 82.03% done; ETC: 12:42 (0:00:18 remaining)
Stats: 0:01:26 elapsed; 0 hosts completed (0 up), 256 undergoing Ping Scan
Ping Scan Timing: About 83.01% done; ETC: 12:42 (0:00:17 remaining)
Nmap done: 256 IP addresses (0 hosts up) scanned in 104.93 seconds
```

Perform a traceroute to the target

```
┌──(kali㉿kali)-[~/nithesh]
└─$ nmap --traceroute 10.29.2.0/24
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-31 13:07 EDT
Traceroute has to be run as root
QUITTING!
```

Ping scan (only checks if the target is up)

```
┌──(kali㉿kali)-[~/nithesh]
└─$ nmap -sP 10.29.2.0/24
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-31 13:15 EDT
Nmap done: 256 IP addresses (0 hosts up) scanned in 103.32 seconds
```

TCP connect scan

```
┌──(kali㉿kali)-[~/nithesh]
└─$ nmap -sT 10.29.2.0/24
Starting Nmap 7.93 ( https://nmap.org ) at 2024-08-31 13:19 EDT
Nmap done: 256 IP addresses (0 hosts up) scanned in 104.33 seconds
```

UDP scan

```
┌──(kali㉿kali)-[~/nithesh]
└─$ nmap -sU 10.29.2.0/24
You requested a scan type which requires root privileges.
QUITTING!
```