• To Perform nmap scanning on windows 7 and kali-linux, find the open/closed ports with services.

We have to find ip address of the target machine using cmd "ipconfig".

```
C:\WINDOWS\system32\cmd.exe — X

C:\Users\dell>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Media State . . . . . . . . . Media disconnected

Connection-specific DNS Suffix .:

Ethernet adapter VirtualBox Host-Only Network:

Connection-specific DNS Suffix .:

Link-local IPv6 Address . . . : fe80::a44f:1955:1393:8200%21

IPv4 Address . . . . . : 192.168.56.1

Subnet Mask . . . . . . . : 255.255.255.0

Default Gateway . . . . . :
```

We got the ip address of the target machine "192.168.56.1"

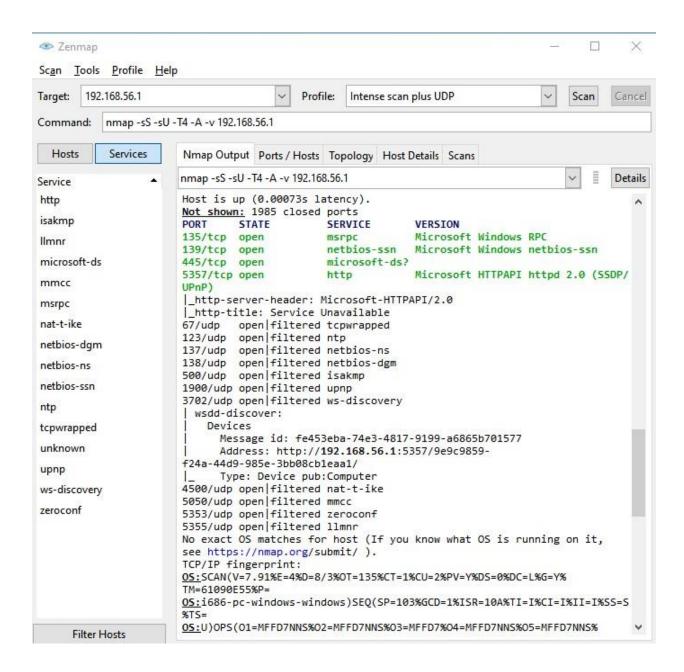
Now we will check if the target machine is up, for that we need to use ping command in cmd.

```
C:\WINDOWS\system32\cmd.exe

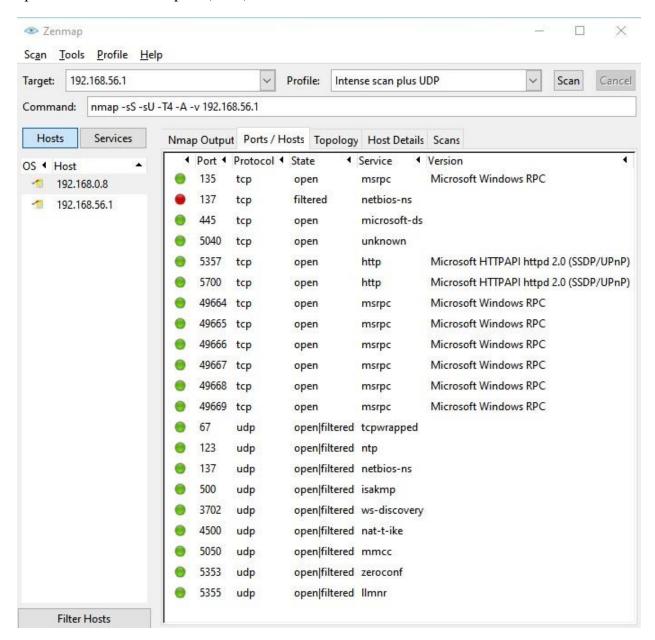
C:\Users\dell>ping 192.168.56.1

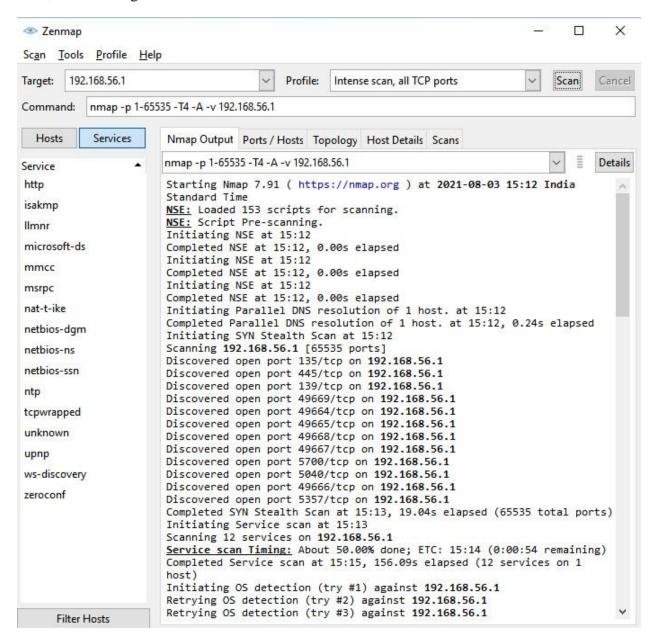
Pinging 192.168.56.1 with 32 bytes of data:
Reply from 192.168.56.1: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.56.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

First we are going to use intense scan plus UDP on nmap.

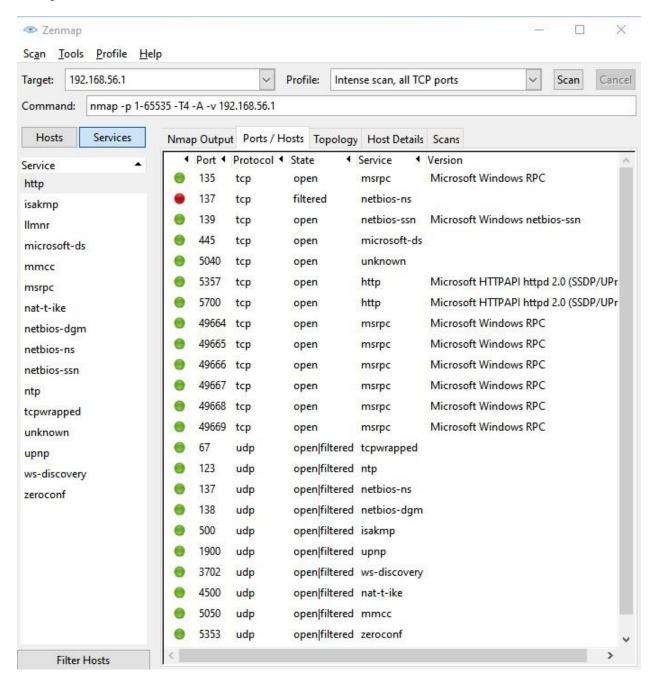


Open/closed and filtered ports(UDP)





TCP ports



```
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M
                                 iqbal@kali: ~
File Actions Edit View Help
  —(iqbal®kali)-[~]
nmap -p-65535 -v -T3 -A 192.168.0.11
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-17 18:10 IST
NSE: Loaded 153 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Initiating Ping Scan at 18:10
Scanning 192.168.0.11 [2 ports]
Completed Ping Scan at 18:10, 0.00s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 18:10
Completed Parallel DNS resolution of 1 host. at 18:10, 0.04s elapsed
Initiating Connect Scan at 18:10
Scanning 192.168.0.11 [65535 ports]
Completed Connect Scan at 18:10, 3.14s elapsed (65535 total ports)
Initiating Service scan at 18:10
NSE: Script scanning 192.168.0.11.
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Nmap scan report for 192.168.0.11
Host is up (0.00016s latency).
```

```
1
                                 iqbal@kali: ~
                                                                        _ O X
File Actions Edit View Help
Completed Parallel DNS resolution of 1 host. at 18:10, 0.04s elapsed
Initiating Connect Scan at 18:10
Scanning 192.168.0.11 [65535 ports]
Completed Connect Scan at 18:10, 3.14s elapsed (65535 total ports)
Initiating Service scan at 18:10
NSE: Script scanning 192.168.0.11.
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.01s elapsed
Nmap scan report for 192.168.0.11
Host is up (0.00016s latency).
All 65535 scanned ports on 192.168.0.11 are closed
NSE: Script Post-scanning.
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Initiating NSE at 18:10
Completed NSE at 18:10, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://n
map.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 4.40 seconds
  —(iqbal⊕kali)-[~]
```