

NETWORK SCANNING FUNDAMENTAL:

DEFINATION

EXAMPLE



NETWORK SCANNING FUNDAMENTAL:

Network scanning involves systematical scanning a computer network to identify active host, open ports and other vital information .n it help assess network security , detect vulnerbality and maintain network health and performance.



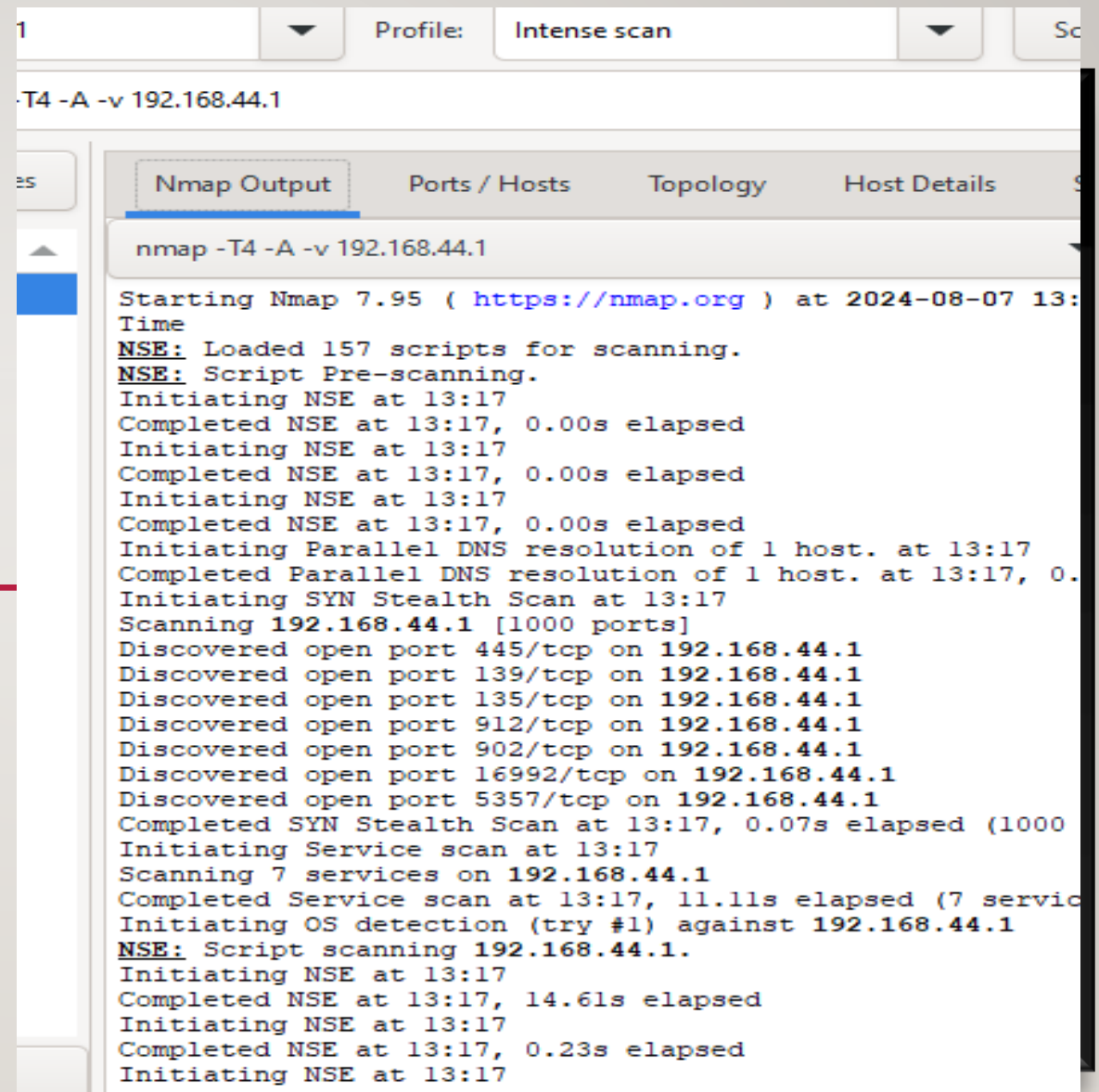
TOOL:

ANGRY IP SCANNER

NMAP-ZEANMAP GUI

NAMP –ZEANMAP

It help to scan the open ports of target devise and also give its topologies and host details.



The screenshot shows the Nmap interface with the command `nmap -T4 -A -v 192.168.44.1` entered. The 'Nmap Output' tab is selected, displaying the following text:

```
nmap -T4 -A -v 192.168.44.1

Starting Nmap 7.95 ( https://nmap.org ) at 2024-08-07 13:
Time
NSE: Loaded 157 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 13:17
Completed NSE at 13:17, 0.00s elapsed
Initiating NSE at 13:17
Completed NSE at 13:17, 0.00s elapsed
Initiating NSE at 13:17
Completed NSE at 13:17, 0.00s elapsed
Initiating Parallel DNS resolution of 1 host. at 13:17
Completed Parallel DNS resolution of 1 host. at 13:17, 0.
Initiating SYN Stealth Scan at 13:17
Scanning 192.168.44.1 [1000 ports]
Discovered open port 445/tcp on 192.168.44.1
Discovered open port 139/tcp on 192.168.44.1
Discovered open port 135/tcp on 192.168.44.1
Discovered open port 912/tcp on 192.168.44.1
Discovered open port 902/tcp on 192.168.44.1
Discovered open port 16992/tcp on 192.168.44.1
Discovered open port 5357/tcp on 192.168.44.1
Completed SYN Stealth Scan at 13:17, 0.07s elapsed (1000
Initiating Service scan at 13:17
Scanning 7 services on 192.168.44.1
Completed Service scan at 13:17, 11.11s elapsed (7 servic
Initiating OS detection (try #1) against 192.168.44.1
NSE: Script scanning 192.168.44.1.
Initiating NSE at 13:17
Completed NSE at 13:17, 14.61s elapsed
Initiating NSE at 13:17
Completed NSE at 13:17, 0.23s elapsed
Initiating NSE at 13:17
```

OTHER SCANNING

- Packet sniffers
- Network scanner
- Network analyser
- Network firewall
- Network intrusion detection and prevention system
- Network encryption