



Department of
Bachelor of Computer Applications

Ethical Hacking Fundamentals
Lab File – CA 09

Subject Code: 19BCA4C02L
Class: IInd Year IInd Semester

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Aim :

Practical to perform enumerating services on user network using Nmap [Any 5 scan].

Requirements :

- Virtualisation Software
- Kali Linux 2021.4a
- Basics of Nmap
- Internet Connection

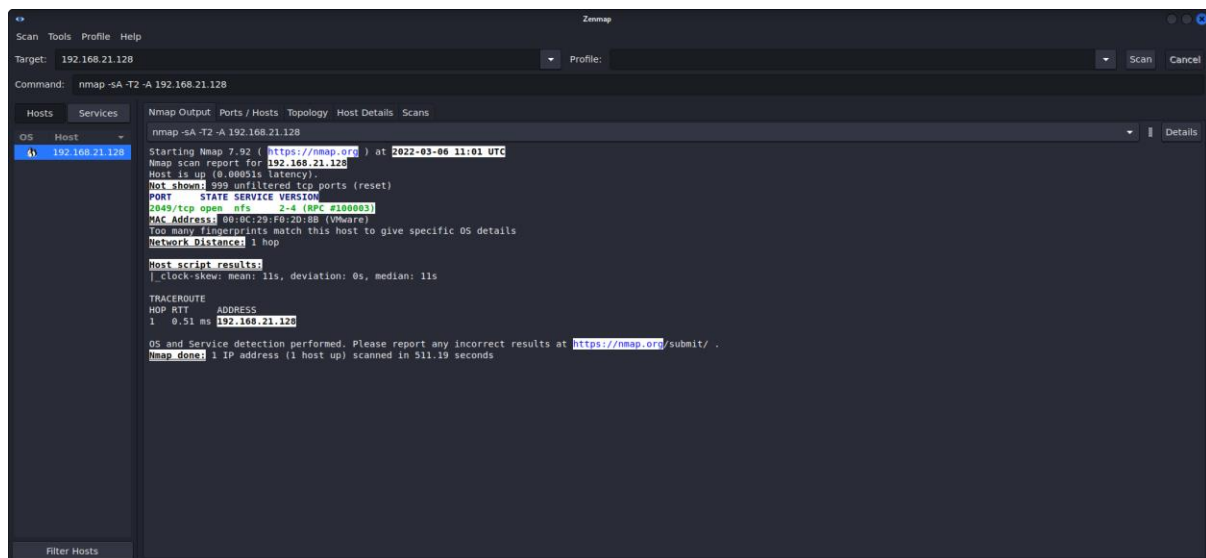
Objectives :

- To Run different scans :
- ✓ TCP ACK Port Scan
- ✓ TCP Connect Scan
- ✓ TCP Maimon Scan
- ✓ Version Detection Scan
- ✓ Fin Scan

Procedure :

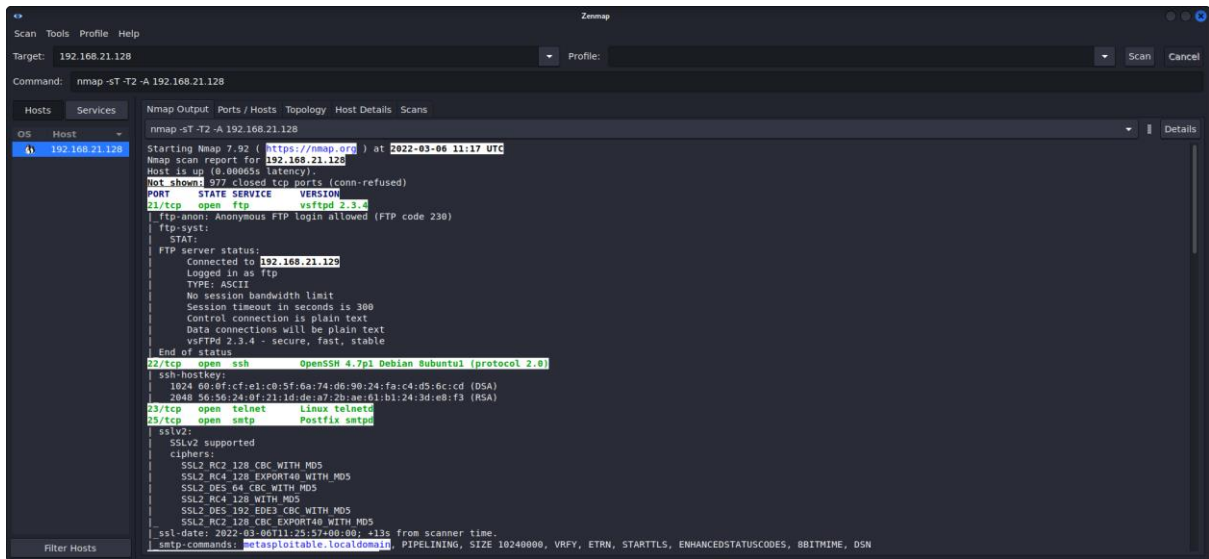
TCP ACK Port Scan

Command: `nmap -sA -T2 -A <IP Address>`



TCP Connect Scan

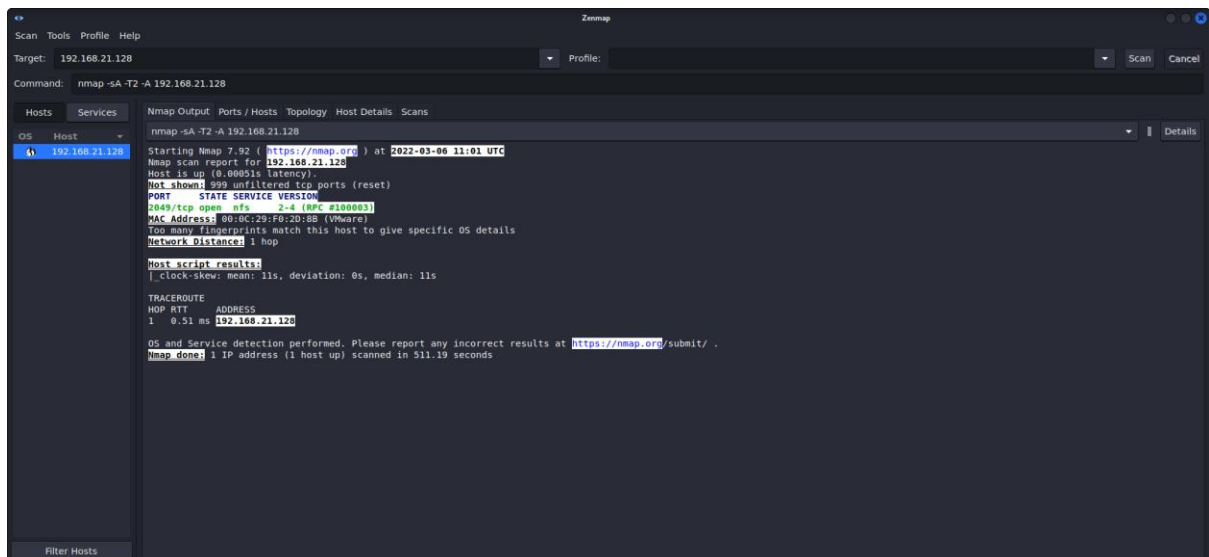
Command: `nmap -sT -T2 -A <IP Address>`



NOTE: For more details regarding the information obtained, head over to: https://drive.google.com/file/d/1mDalgrzByahercesW7C4yndl8LZS7FD/view?usp=s_haring

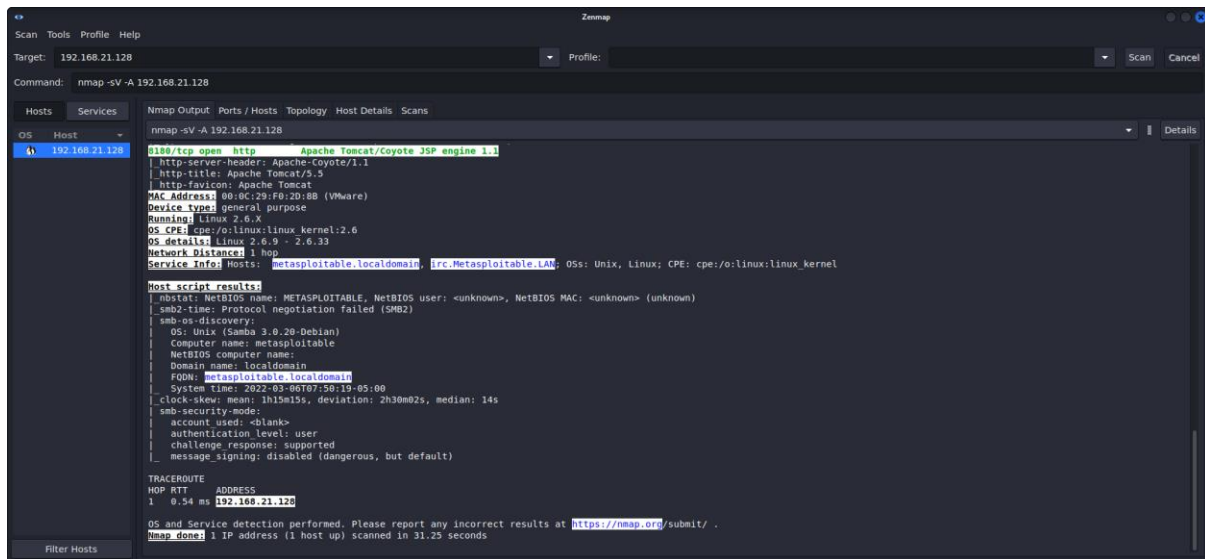
TCP Maimon Scan

Command: `nmap -sM -T3 -A <IP Address>`



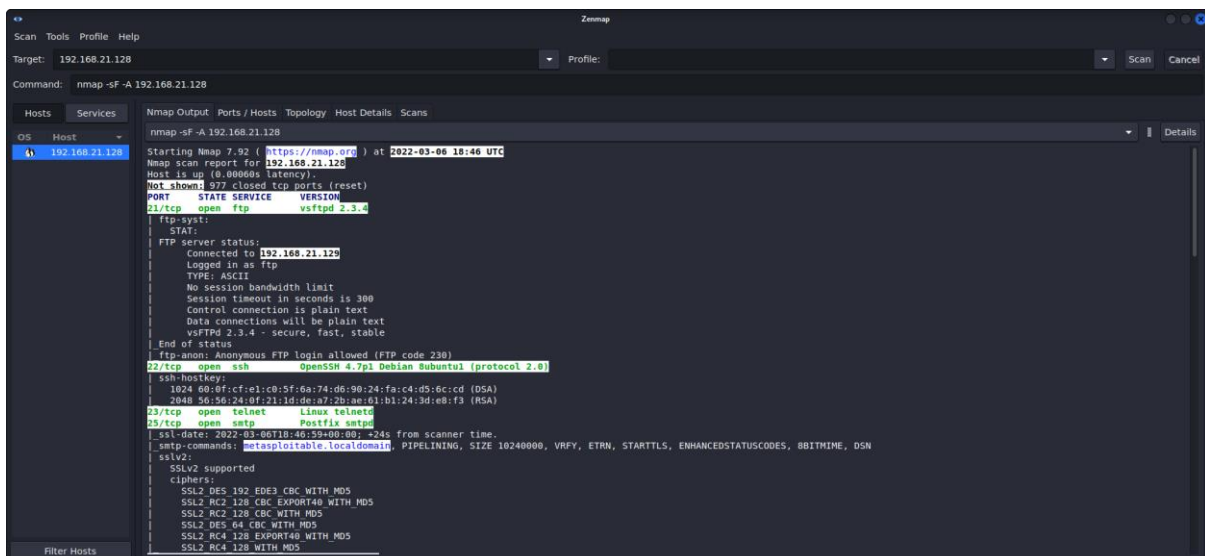
Version Detection Scan

Command: `nmap -sV -A <IP Address>`



Fin Scan

Command: `nmap -sF -A <IP Address>`



NOTE: For more details regarding the information obtained, head over to: https://drive.google.com/file/d/11yLVgHPBsizDnhssDW7lq9l2rxzZMhLT/view?usp=s_haring

Conclusion :

Nmap is a network scanner tool available both in CLI and GUI interfaces. Nmap is used to discover hosts and services on a computer network by sending packets and analysing the responses. Nmap provides a number of features for probing computer networks, including host discovery and service and operating system detection. These features are extensible by scripts that provide more advanced service detection. Tools used in this practical are Metasploitable and Linux CLI nmap. NMAP is used for identifying the available ports on the target machine. Further, using the available ports, we can exploit the available ports by identifying their exploits.