Experiment No. 10

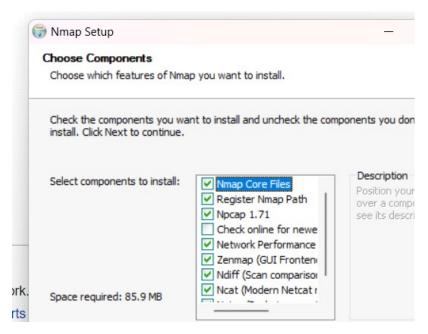
Aim: To install and implement NMAP.

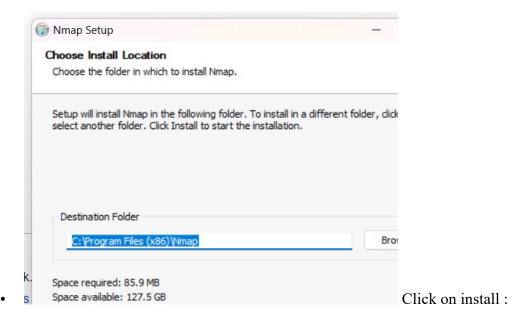
NMAP: Nmap (**Network Mapper**) is a <u>network scanner</u> created by Gordon Lyon. Nmap is used to discover <u>hosts</u> and <u>services</u> on a <u>computer network</u> by sending <u>packets</u> and analyzing the responses.

Nmap provides a number of features for probing computer networks, including host discovery and service and <u>operating system</u> detection. These features are extensible by <u>scripts</u> that provide more advanced service detection, vulnerability detection, and other features. Nmap can adapt to network conditions including latency and congestion during a scan.

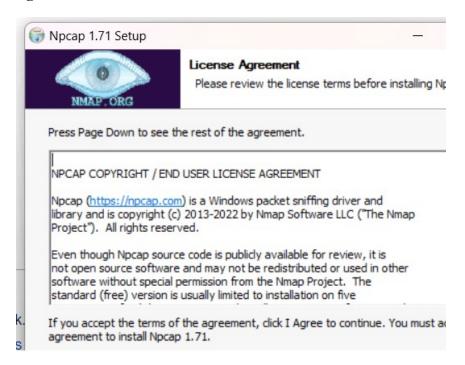
INSTALLATION OF NMAP:

• Run the installer and click next:

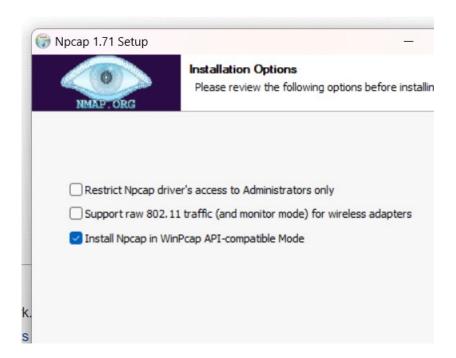




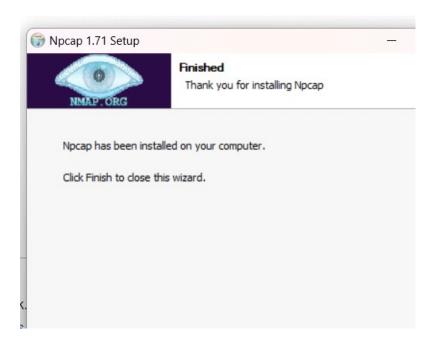
Click on I Agree :



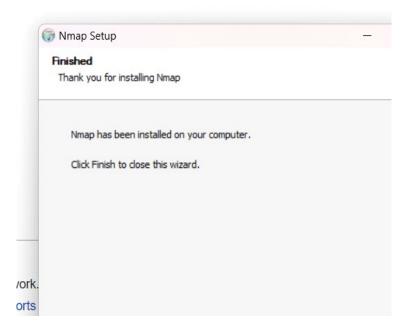
Click on Install :



• Click on Finish:

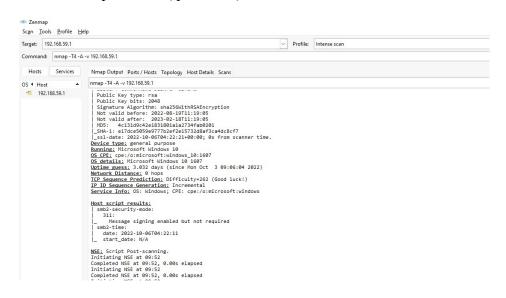


• Click on Finish:



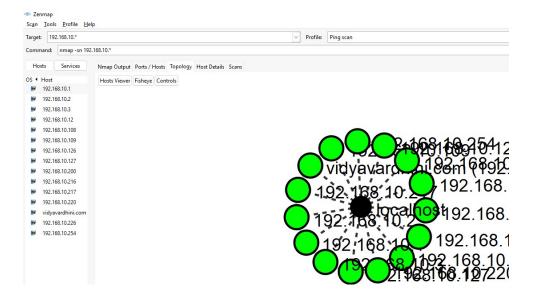
• IMPLEMENTATION OF NMAP :

1. nmap-T4-A-v (ip address):

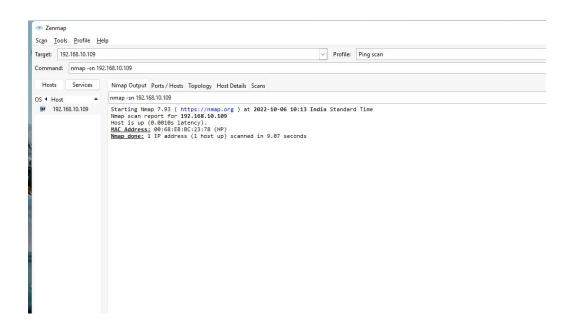


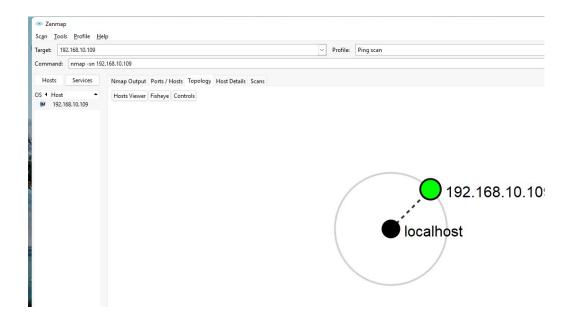
1. nmap -sn (ip address):





1. nmap -sn (reciever's ip address):





• Conclusion:

Nmap is clearly the "Swiss Army Knife" of networking, thanks to its inventory of versatile commands. It lets you quickly scan and discover essential information about your network, hosts, ports, firewalls, and operating systems. Nmap has numerous settings, flags, and preferences that help system administrators analyze a network in detail.

Q1.

Q2.