

COMPUTER NETWORKS

LAB 11

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Ques - Demonstrate how to detect OS using Nmap with a report.

In Nmap to detect the operating system using Nmap, we can use the -O option, which enables OS detection during the scanning process.

Follow the steps for OS detection.

1 - First get the IP address of the device in which you are running the Nmap by using the command - ipconfig.

2 - After getting the IP address of the device run the command
: - nmap -O <ip address>

In the command :

Nmap - This is the command to run nmap

-O - This option enables OS detection

<ip address> - The IP address of the device.

After running the command, Nmap will start the scanning process and send various packets to the target system to collect information about their OS and services. Once the scan is finished map will make a report which consists of information like OS type, version of the device, and state of the protocols.

```
C:\Users\kvsth>nmap 172.20.252.93
Starting Nmap 7.94 ( https://nmap.org ) at 2023-07-19 13:39 India Standard Time
Nmap scan report for 172.20.252.93
Host is up (0.00043s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds

Nmap done: 1 IP address (1 host up) scanned in 0.23 seconds

C:\Users\kvsth>nmap -O 172.20.252.93
Starting Nmap 7.94 ( https://nmap.org ) at 2023-07-19 13:39 India Standard Time
Nmap scan report for 172.20.252.93
Host is up (0.00043s latency).
Not shown: 997 closed tcp ports (reset)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
Device type: general purpose
Running: Microsoft Windows 10
OS CPE: cpe:/o:microsoft:windows_10:1607
OS details: Microsoft Windows 10 1607
Network Distance: 0 hops

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1.34 seconds
```