

Cyber Security Internship

Task1: Scan your Local Network for Open Ports

- First, I had installed the Nmap and Wireshark of Windows version.
- From Command Prompt (cmd) – <ipconfig>, I got the details of my Windows IP configuration.
- My IPv4 address – 192.168.x.x
- Subnet mask – 255.255.255.0
- With the help of IP address, I ran the scan with command → nmap -sS 192.168.x.x & performed TCP SYN scan
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Port	Common Service	Potential Risks / Threats
135/tcp	MSRPC (Microsoft RPC)	<ul style="list-style-type: none">• Remote Code Execution (RCE) vulnerabilities• DCOM abuse for lateral movement• System/service enumeration by attackers• Used in old RPC-based worms (e.g., MS08-067)
139/tcp	NetBIOS-SSN	<ul style="list-style-type: none">• Username/share enumeration• NBT-NS poisoning attacks• SMB brute-force attempts• Information leakage (device name, workgroup)
445/tcp	SMB (Microsoft-DS)	<ul style="list-style-type: none">• High-risk RCE vulnerabilities (EternalBlue)• WannaCry/NotPetya ransomware attacks• Lateral movement (Pass-the-Hash, Pass-the-Ticket)• Unauthorized access to shared folders• SMB relay attacks
8000/tcp	HTTP-Alt	<ul style="list-style-type: none">• Weak/no authentication on dashboards• OWASP Top 10 web exploits (XSS, SQLi, LFI)• Directory traversal• IoT device exposure• Sensitive data leakage
8089/tcp	Splunk Management Port / Custom API	<ul style="list-style-type: none">• Unauthorized API access• Privilege escalation via Splunkd• Misconfigured authentication/TLS• Remote script execution via API• Custom services may contain unknown or unpatched vulnerabilities

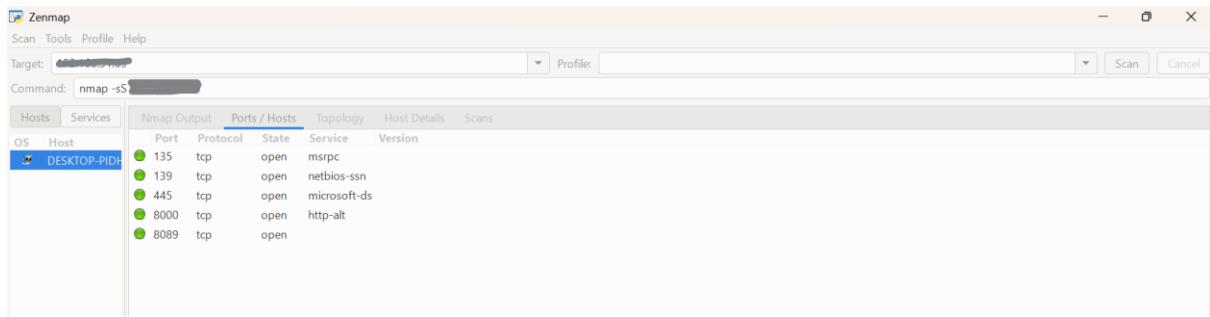
Below are the screenshots of Nmap Scan:

The screenshot shows the Zenmap interface with the following details:

- Target: DESKTOP-PIDH2UV.lan
- Command: nmap -sS
- Ports Output:

PORT	STATE	SERVICE
135/tcp	open	msrpc
139/tcp	open	netbios-ssn
445/tcp	open	microsoft-ds
8000/tcp	open	http-alt
8089/tcp	open	unknown

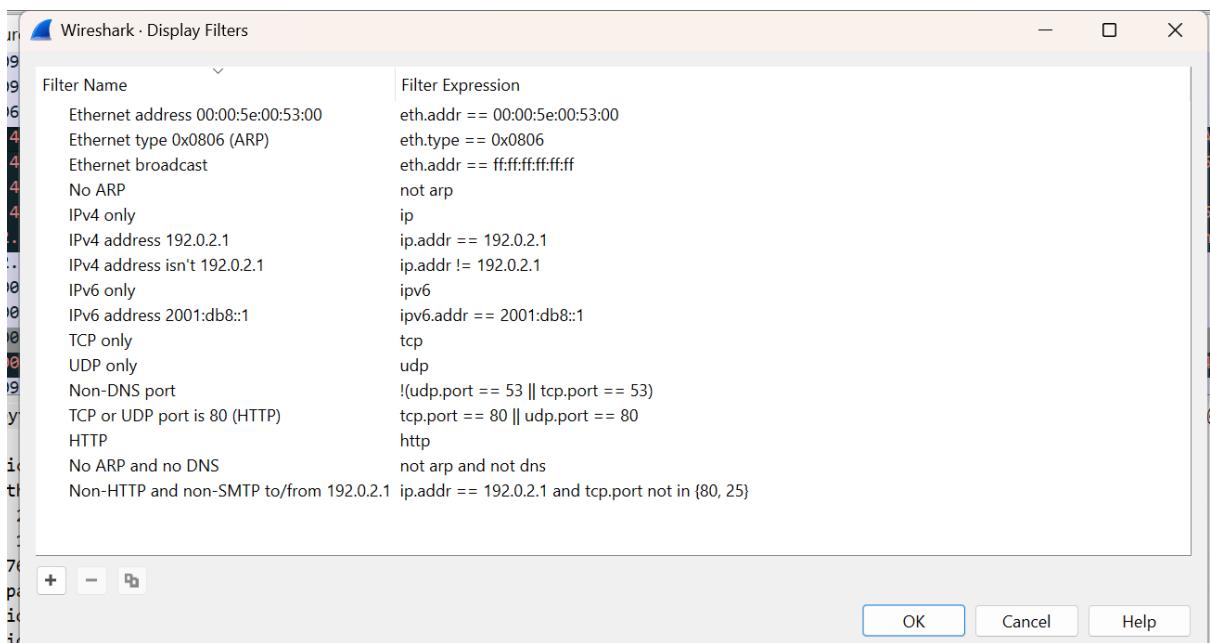
- Scan results summary: Starting Nmap 7.98 (https://nmap.org) at 2025-11-13 15:16 +0530
- Host status: Host is up (0.00089s latency).
- Other information: Not shown: 995 closed tcp ports (reset)
- Scan completed message: Nmap done: 1 IP address (1 host up) scanned in 0.32 seconds



- Below is the saved scan results in HTML file:

<C:\Users\DELL 5400\Desktop\Cybersecurity Navya\Elevate Labs\portscan.html>

- I had also analyzed packet capture with Wireshark.



I had learned how to use Nmap & Wireshark, with my first scanning and analyzing of open ports. And got to know a lot of info to check the IP address - status, monitor and analyzing of network service.