
INTERNSHIP REPORT – TASK 1

Student Name: Solanki Bhumirajsinh

Date: 08 December 2025

Task: Local Network Scan Using Nmap

1. Objective

The objective of this task was to scan the local network using Nmap to identify open ports on devices, analyze running services, and evaluate potential security risks. This helps in understanding network exposure and basic network reconnaissance skills.

2. Tools Used

- Nmap (Network Mapper)
 - Windows Command Prompt
 - Wireshark (Optional)
-

3. Local IP & Network Range

- IPv4 Address: 192.168.43.177
 - Subnet Mask: 255.255.255.0
 - Network Range: 192.168.43.0/24
-

4. Scan Commands

- Full network scan:
nmap -sS 192.168.43.0/24
 - Scan own device:
nmap -sV 192.168.43.177
-

5. Scan Output

Nmap scan report for 192.168.43.177

Host is up (0.000082s 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

6. Open Ports & Services

Port Service Purpose

135 MSRPC Windows Remote Procedure Call (internal communication)
139 NetBIOS Old LAN file sharing protocol
445 SMB Modern Windows file sharing protocol

7. Risk Analysis

Port Risk Level Potential Threat

135 Medium May allow remote commands if exploited
139 Medium-High Can leak system information on local network
445 High Vulnerable to ransomware attacks

Mitigation Steps Taken:

- Network discovery turned OFF
 - File & Printer Sharing turned OFF
 - SMBv1 disabled
 - Firewall rules configured to block unnecessary ports
-

8. Conclusion

The network scan successfully identified open ports and their services. Potential security risks were analyzed and mitigated. This task helped in understanding basic network reconnaissance and network exposure assessment.

Attachments:

- **Scan result file:** "C:\Users\Bhumirajsinh Solanki\scan.txt"
- **Optional:** Screenshot of scan output

```
C:\Users\Bhumirajsinh Solanki>nmap -sS 192.168.43.0/24 -oN scan.txt
Starting Nmap 7.98 ( https://nmap.org ) at 2025-12-08 18:06 +0530
Nmap scan report for 192.168.43.1
Host is up (0.0038s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE
53/tcp    open  domain
MAC Address: 62:AB:6A:15:1A:79 (Unknown)

Nmap scan report for 192.168.43.177
Host is up (0.00044s 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: 256 IP addresses (2 hosts up) scanned in 3.58 seconds
```