**Task 1: Scan Your Local Network for Open Ports**

**Step 1: Install Nmap from official website**

**Step 2**: Find your local IP range (e.g., 192.168.1.0/24).

Use cmd for IP address. Run the command**: ipconfig**

**Step 3:** Run: nmap -sS 192.168.1.0/24 to perform TCP SYN scan

# Nmap 7.98 scan initiated Mon Oct 20 21:53:26 2025 as: nmap -sT -oN scan-connect.txt ip addr

Nmap scan report for ip addr

Host is up (0.051s latency).

Not shown: 996 closed tcp ports (conn-refused)

PORT STATE SERVICE

8008/tcp open http

8009/tcp open ajp13

8443/tcp open https-alt

9000/tcp open cslistener

<MAC Address redacted>

Nmap scan report for <local IP hidden>.1.25

Host is up (0.014s latency).

Not shown: 949 closed tcp ports (conn-refused), 49 filtered tcp ports (no-response)

PORT STATE SERVICE

49152/tcp open unknown

62078/tcp open iphone-sync

<MAC Address redacted>

# Nmap done at Mon Oct 20 21:59:32 2025 -- 256 IP addresses (4 hosts up) scanned in 365.75 seconds