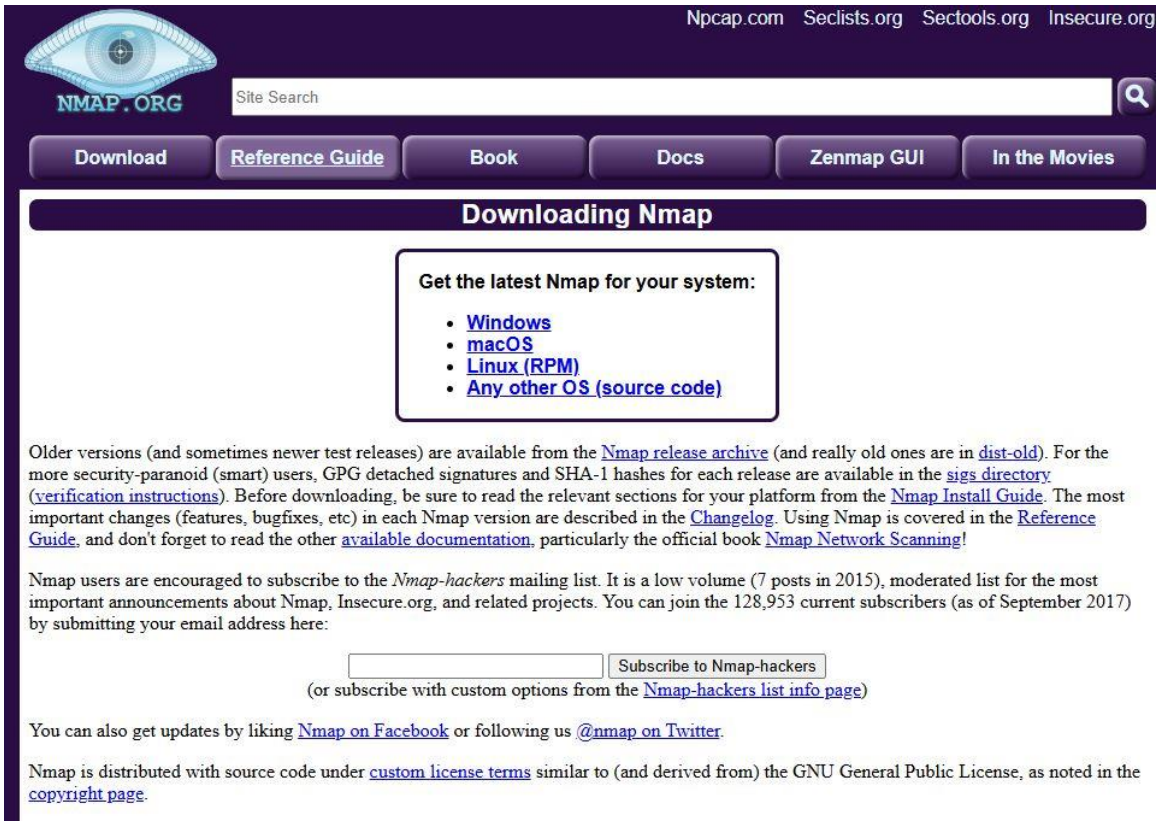
Nmap Scan Analysis

1. Install Nmap from the Official Website

Visit: https://nmap.org/download.html

Download and install Nmap for your OS (Windows, macOS, or Linux). Optionally, install Zenmap (Nmap's GUI) if you're more comfortable with a graphical interface.



2. Find Your Local IP Range

Windows:

Open CMD and run:

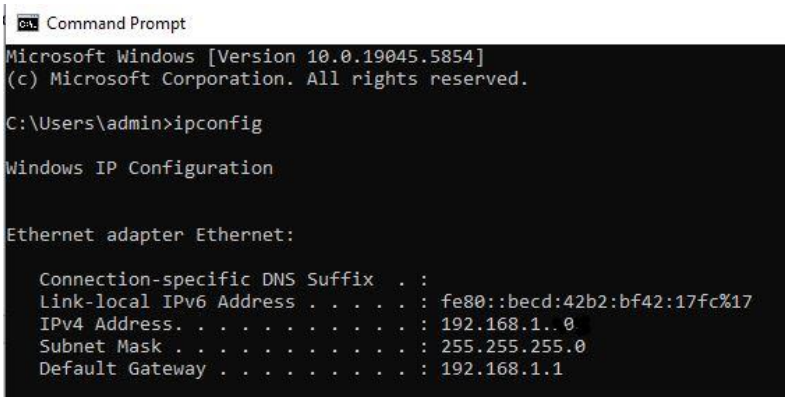
ipconfig

Look for your IPv4 address and subnet (e.g., 192.168.1.5, subnet 255.255.255.0 → range is 192.168.1.0/24)

Linux/macOS:

Run:

ifconfig



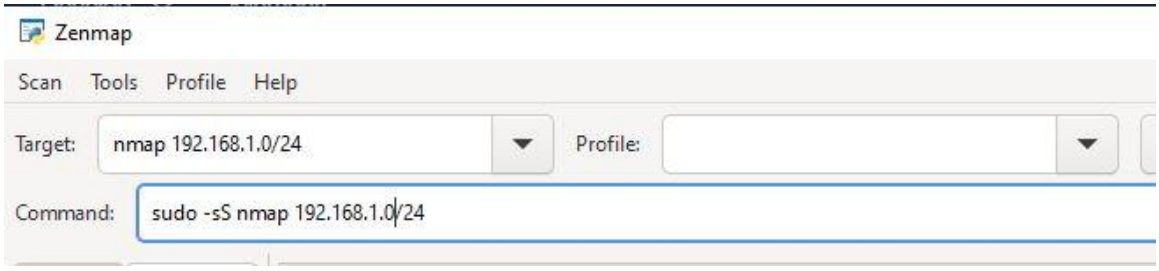
3. Run the Nmap TCP SYN Scan

Open a terminal or CMD and type:

nmap -sS 192.168.1.0/24

On Linux/macOS, use sudo:

sudo nmap -sS 192.168.1.0/24



4. Note IP Addresses and Open Ports

Nmap output example:

Nmap scan report for 192.168.1.10

Host is up.

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

Save the result:

nmap -sS 192.168.1.0/24 -oN scan_results.txt


Nmap Output
Ports / Hosts
Topology
Host Details
Scans
sudo -sS nmap 192.168.1.0/24
Starting Nmap 7.97 (https://nmap.org) at 2025-06-01 19:40 +0530
Failed to resolve "nmap".
Nmap scan report for 192.168.1.1
Host is up (0.00095s latency).
Not shown: 996 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
53/tcp open domain
80/tcp open http
1900/tcp open upnp
MAC Address: 28:87:BA:86:C6:A6 (TP-Link Limited)