

Prepared For :  
CA-3



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# CA-3 REPORT



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# CA-3

## Project Report

*Open Source Software for scanning google.com  
in various environments*

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# INTRODUCTION

**Objective:** Using desired open source software scan google.com in various environments like extremely fast networks, low networks, and moderate networks.

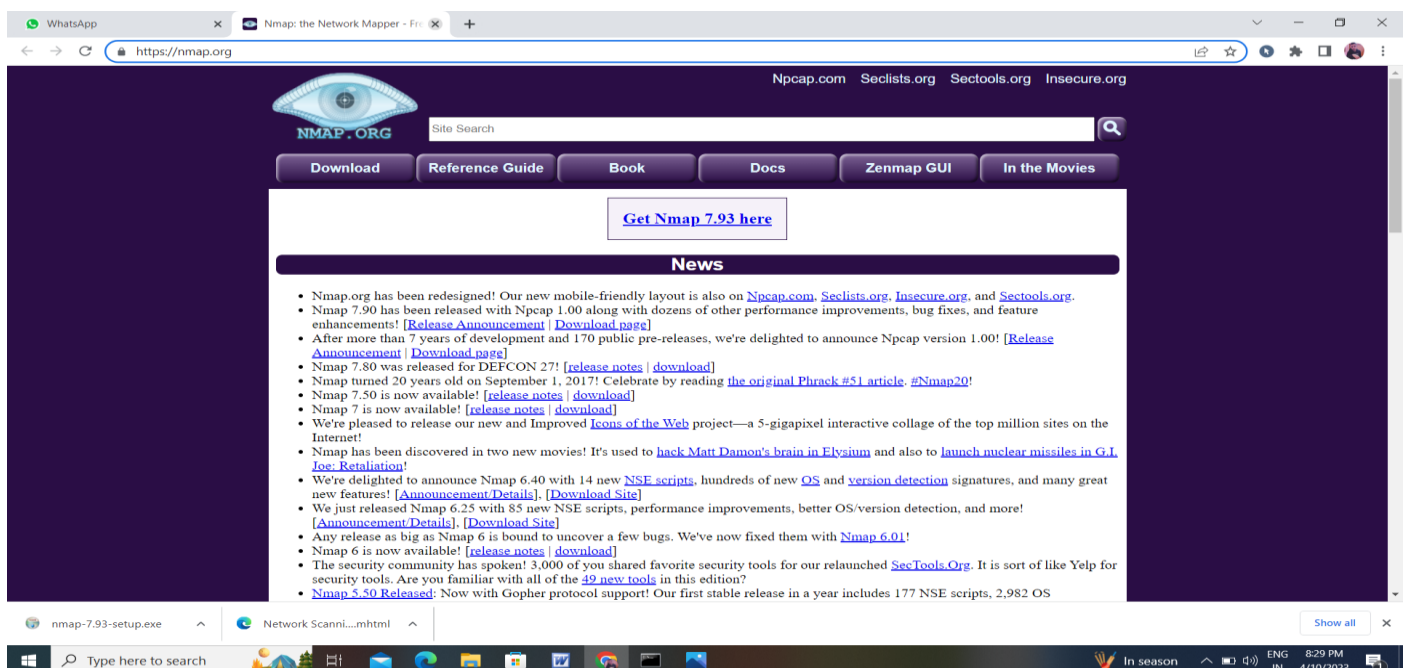
**Description:** I have used the Nmap software for scanning google.com in various environments of low networks, extremely high networks, and moderately low networks.d

Nmap is also known as Network Mapper. It is a popular open-source network mapping tool used by network administrators, security researchers, and penetration testers to discover hosts and services on their networks, their operating systems, open ports, and vulnerabilities. It can be used for scanning websites in various environments. You can run different types of scans such as: B. Ping scan, TCP/UDP port scan, OS detection, version detection, etc. Nmap can also be used to create visual network maps and scan reports, making it a valuable tool for network mapping and vulnerability assessment. Nmap is available on multiple platforms such as Linux, Windows, and macOS.

It's user friendly and easy to install.


## Steps To Download the file.

- To download the Nmap we have to visit : <https://nmap.org/download.html>

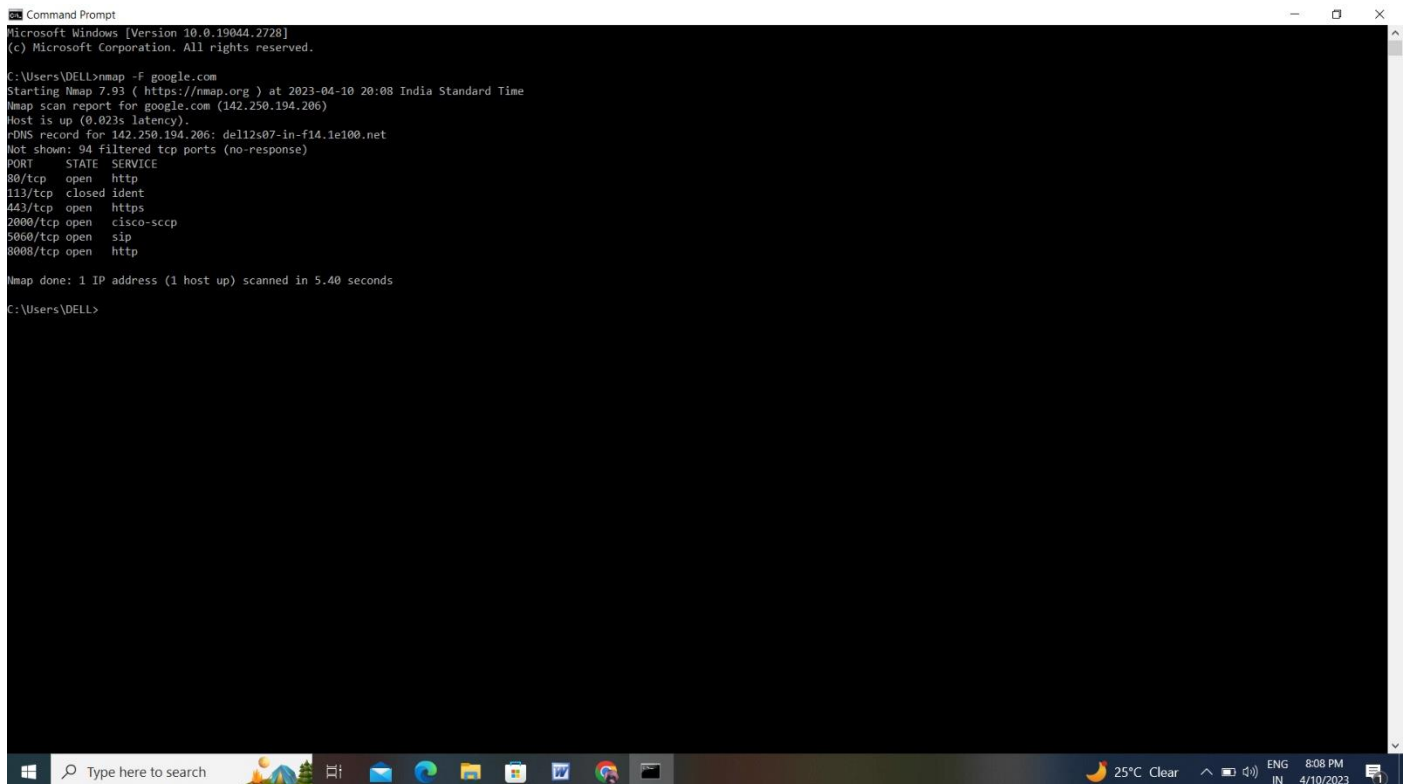


## Steps to Install the Nmap software:

- Now download the software for Windows. If you have any other operating system then you can download for that Operating system also.
- After downloading start installation
- Just accept the terms and conditions and then next >> next >> install
- After installation open command prompt

 To scan google.com in extremely fast network:

Command: `nmap -F google.com`



```
Command Prompt
Microsoft Windows [Version 10.0.19044.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>nmap -F google.com
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-10 20:08 India Standard Time
Nmap scan report for google.com (142.250.194.206)
Host is up (0.023s latency).
rDNS record for 142.250.194.206: dl12s07-in-f14.1e100.net
Not shown: 94 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
113/tcp   closed ident
443/tcp   open  https
2000/tcp  open  cisco-sccp
5060/tcp  open  sip
8080/tcp  open  http

Nmap done: 1 IP address (1 host up) scanned in 5.40 seconds
C:\Users\DELL>
```

 To scan google.com in moderate network

Command: `nmap -A google.com`





```
Command Prompt
Microsoft Windows [Version 10.0.22000.1696]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kumar>nmap -sS -T4 google.com
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-10 19:47 India Standard Time
Nmap scan report for google.com (172.217.167.206)
Host is up (0.037s latency).
rDNS record for 172.217.167.206: del03s18-in-f14.1e100.net
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https

Nmap done: 1 IP address (1 host up) scanned in 5.60 seconds
C:\Users\kumar>
```

🚦 To scan google.com in slow network

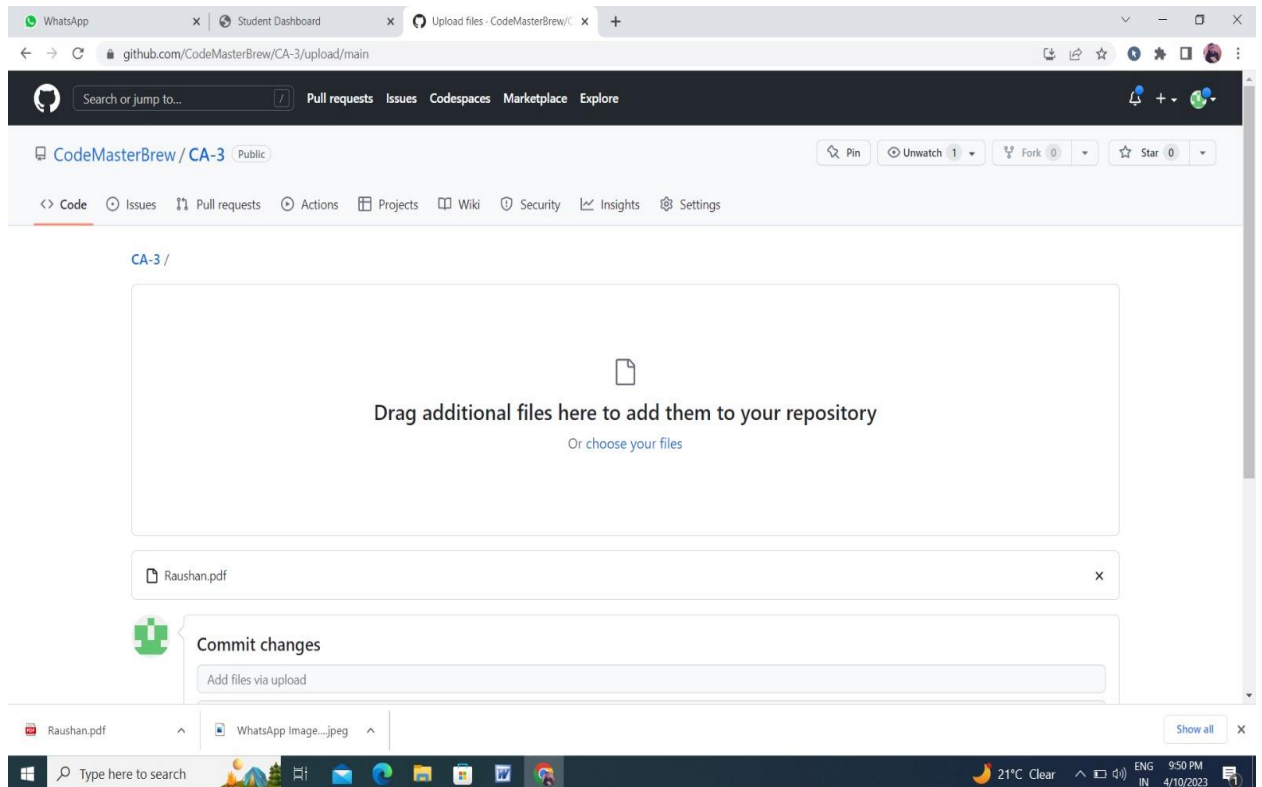
Command: nmap -T1 -p1-65535 google.com

```
Command Prompt - nmap -T1 -p1-65535 google.com
Microsoft Windows [Version 10.0.22000.1696]
(c) Microsoft Corporation. All rights reserved.

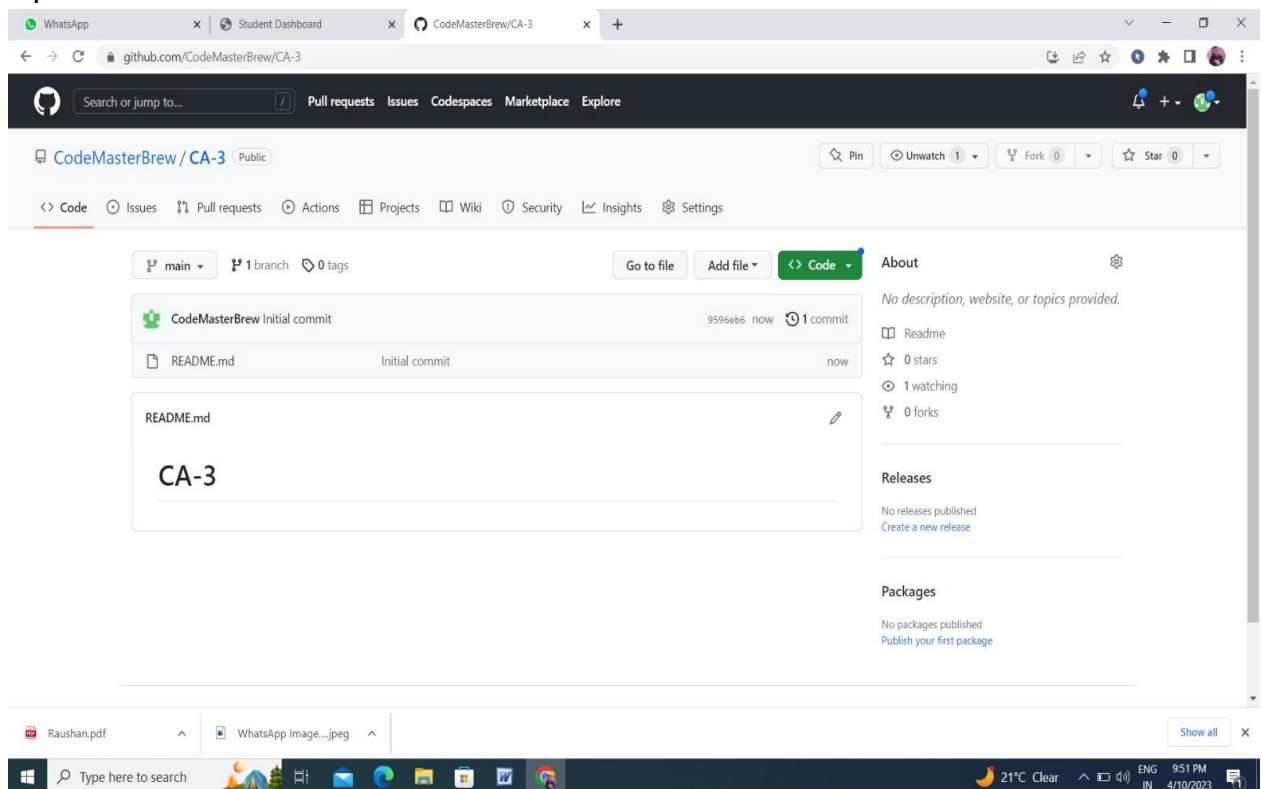
C:\Users\kumar>nmap -T1 -p1-65535 google.com
Starting Nmap 7.93 ( https://nmap.org ) at 2023-04-10 19:53 India Standard Time
Stats: 0:01:16 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 0.00% done
Stats: 0:01:31 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 0.00% done
```

Steps to upload the file on github:

- Open GitHub from link: <https://github.com/CodeMasterBrew>
- Login
- Create a GitHub repository



- Upload the file.



## References

- <https://nmap.org/>
- <https://www.youtube.com/>

**Thank You**