

1. Basic Nmap Scan against IP or host

```
(naitro_07@kali)-[~]  
$ nmap 196.1.1.30  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 12:54 IST  
Nmap scan report for 196.1.1.30  
Host is up (0.14s latency).  
Not shown: 997 filtered tcp ports (no-response)  
PORT      STATE SERVICE  
80/tcp    open  http  
113/tcp   closed ident  
443/tcp   open  https  
  
Nmap done: 1 IP address (1 host up) scanned in 22.72 seconds  
  
(naitro_07@kali)-[~]  
$
```

2. Scan specific ports or scan entire port ranges on a local or remote server. nmap -p 1-65535 localhost

```
(root@kali)-[/home/naitro_07]
# nmap -p 1-65535 196.1.1.30
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:17 IST
Nmap scan report for 196.1.1.30
Host is up (0.13s latency).
Not shown: 65531 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
113/tcp   closed ident
443/tcp   open  https
4500/tcp  open  sae-urn

Nmap done: 1 IP address (1 host up) scanned in 677.71 seconds

(root@kali)-[/home/naitro_07]
#
```

3. Nmap is able to scan all possible ports, but it can also scan specific ports

```
(root@kali)-[/home/naitro_07]
# nmap -p 80,443 196.1.1.30
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:17 IST
Nmap scan report for 196.1.1.30
Host is up (0.097s latency).

PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https

Nmap done: 1 IP address (1 host up) scanned in 0.66 seconds

(root@kali)-[/home/naitro_07]
#
```

4. Scan multiple IP addresses

```
(root@kali)-[/home/naitro_07]
# nmap 196.1.1.30,35
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:20 IST
Nmap scan report for 196.1.1.30
Host is up (0.058s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
113/tcp   closed ident
443/tcp   open  https

Nmap scan report for 196.1.1.35
Host is up (0.069s latency).
All 1000 scanned ports on 196.1.1.35 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)

Nmap done: 2 IP addresses (2 hosts up) scanned in 21.08 seconds

(root@kali)-[/home/naitro_07]
#
```

5. Scan IP ranges

```
(root@kali)~[/home/naitro_07]
# nmap 196.1.1.30/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:26 IST
Nmap scan report for 196.1.1.0
Host is up (0.070s latency).
All 1000 scanned ports on 196.1.1.0 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)

Nmap scan report for 196.1.1.1
Host is up (0.13s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident
443/tcp    open  https

Nmap scan report for 196.1.1.2
Host is up (0.039s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident

Nmap scan report for 196.1.1.3
Host is up (0.041s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident

Nmap scan report for 196.1.1.4
Host is up (0.039s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident

Nmap scan report for 196.1.1.5
Host is up (0.036s latency).
All 1000 scanned ports on 196.1.1.5 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)

Nmap scan report for 196.1.1.6
Host is up (0.063s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident

Nmap scan report for 196.1.1.7
Host is up (0.045s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE
113/tcp    closed ident
```

6. Scan the most popular ports

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:28 IST
Nmap scan report for 196.1.1.30
Host is up (0.11s latency).
```

PORT	STATE	SERVICE
21/tcp	filtered	ftp
22/tcp	filtered	ssh
23/tcp	filtered	telnet
25/tcp	filtered	smtp
53/tcp	filtered	domain
80/tcp	open	http
110/tcp	filtered	pop3
111/tcp	filtered	rpcbind
135/tcp	filtered	msrpc
139/tcp	filtered	netbios-ssn
143/tcp	filtered	imap
443/tcp	open	https
445/tcp	filtered	microsoft-ds
993/tcp	filtered	imaps
995/tcp	filtered	pop3s
1723/tcp	filtered	pptp
3306/tcp	filtered	mysql
3389/tcp	filtered	ms-wbt-server
5900/tcp	filtered	vnc
8080/tcp	filtered	http-proxy

```
Nmap done: 1 IP address (1 host up) scanned in 3.20 seconds
```

```
(root@kali)-[/home/naitro_07]
#
```

7. Scan hosts and IP addresses reading from a text file

```
root@kali: /home/r × root@kali: /home/r × root@kali: /home/ × naitro_07@kali: ~ × + v
GNU nano 8.2 scan_file.txt *
196.1.1.30
198.38.83.41
kali.org
```

```

(root@kali)-[/home/naitro_07]
# nmap -iL scan_file.txt
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:40 IST
Nmap scan report for 196.1.1.30
Host is up (0.10s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
113/tcp   closed ident
443/tcp    open  https

Nmap scan report for 599974-QamarRayees.securehostdns.com (198.38.83.41)
Host is up (0.10s latency).
Not shown: 992 filtered tcp ports (no-response)
PORT      STATE SERVICE
21/tcp    open  ftp
53/tcp    open  domain
80/tcp    open  http
135/tcp   open  msrpc
443/tcp   open  https
445/tcp   open  microsoft-ds
5357/tcp  open  wsapi
8443/tcp  open  https-alt

Nmap scan report for kali.org (104.18.4.159)
Host is up (0.095s latency).
Other addresses for kali.org (not scanned): 104.18.5.159 2606:4700:90c0:747e:a64:5be:cfc8:4636
Not shown: 996 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
443/tcp   open  https
8080/tcp  open  http-proxy
8443/tcp  open  https-alt

Nmap done: 3 IP addresses (3 hosts up) scanned in 23.73 seconds

(root@kali)-[/home/naitro_07]
#

```

8. Save your Nmap scan results to a file

```

(naitro_07@kali)-[~]
$ nmap -oN output.txt scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:45 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.34s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    filtered smtp
80/tcp    filtered http
135/tcp   filtered msrpc
139/tcp   filtered netbios-ssn
445/tcp   filtered microsoft-ds
1723/tcp  filtered pptp
9929/tcp  open  nping-echo
31337/tcp open  Elite

Nmap done: 1 IP address (1 host up) scanned in 42.17 seconds

(naitro_07@kali)-[~]
$

```

```
GNU nano 8.2                                output.txt
# Nmap 7.94SVN scan initiated Sun Feb  2 13:45:03 2025 as: /usr/lib/nmap/nmap --privileged -oN output.txt scanme.nmap.org
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.34s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open       ssh
25/tcp    filtered  smtp
80/tcp    filtered  http
135/tcp   filtered  msrpc
139/tcp   filtered  netbios-ssn
445/tcp   filtered  microsoft-ds
1723/tcp  filtered  pptp
9929/tcp  open       nping-echo
31337/tcp open       Elite

# Nmap done at Sun Feb  2 13:45:45 2025 -- 1 IP address (1 host up) scanned in 42.17 seconds

[ Read 17 lines ]
^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo      M-G Copy
```

9. Scan + OS and service detection with fast execution

```
(root@kali)~[/home/naitro_07]
# nmap -A -T4 scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:45 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.25s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE      SERVICE      VERSION
22/tcp    open       ssh          OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 1024 ac:00:a0:1a:82:ff:cc:55:99:dc:67:2b:34:97:6b:75 (DSA)
| 2048 20:3d:2d:44:62:2a:b0:5a:9d:b5:b3:05:14:c2:a6:b2 (RSA)
| 256 96:02:bb:5e:57:54:1c:4e:45:2f:56:4c:4a:24:b2:57 (ECDSA)
|_ 256 33:fa:91:0f:e0:e1:7b:1f:6d:05:a2:b0:f1:54:41:56 (ED25519)
25/tcp    filtered  smtp
80/tcp    filtered  http
135/tcp   filtered  msrpc
139/tcp   filtered  netbios-ssn
445/tcp   filtered  microsoft-ds
1723/tcp  filtered  pptp
9929/tcp  open       nping-echo   Nping echo
31337/tcp open       tcpwrapped
OS fingerprint not ideal because: Host distance (27 network hops) is greater than five
No OS matches for host
Network Distance: 7 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 80/tcp)
HOP RTT      ADDRESS
1  0.66 ms  MAITRO-07.mshome.net (172.21.208.1)
2  14.31 ms  jiofiber.local.html (192.168.31.1)
3  14.35 ms  192.0.0.1
4  76.38 ms  192.0.0.1
5  77.04 ms  192.0.0.1
6  76.38 ms  192.0.0.1
7  72.96 ms  scanme.nmap.org (45.33.32.156)

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 49.21 seconds

(root@kali)~[/home/naitro_07]
#
```

10. Detect service/daemon versions

```

(root@kali) - [/home/naitro_07]
# nmap -sV -vv -T4 scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 13:52 IST
NSE: Loaded 46 scripts for scanning.
Warning: Hostname scanme.nmap.org resolves to 2 IPs. Using 45.33.32.156.
Initiating Ping Scan at 13:52
Scanning scanme.nmap.org (45.33.32.156) [4 ports]
Completed Ping Scan at 13:52, 0.14s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 13:52
Completed Parallel DNS resolution of 1 host. at 13:52, 0.01s elapsed
Initiating SYN Stealth Scan at 13:52
Scanning scanme.nmap.org (45.33.32.156) [1000 ports]
Discovered open port 22/tcp on 45.33.32.156
Discovered open port 80/tcp on 45.33.32.156
Increasing send delay for 45.33.32.156 from 0 to 5 due to 49 out of 122 dropped probes since last increase.
Discovered open port 9929/tcp on 45.33.32.156
Discovered open port 31337/tcp on 45.33.32.156
Completed SYN Stealth Scan at 13:53, 17.93s elapsed (1000 total ports)
Initiating Service scan at 13:53
Scanning 4 services on scanme.nmap.org (45.33.32.156)
Completed Service scan at 13:53, 6.76s elapsed (4 services on 1 host)
NSE: Script scanning 45.33.32.156.
NSE: Starting runlevel 1 (of 2) scan.
Initiating NSE at 13:53
Completed NSE at 13:53, 1.47s elapsed
NSE: Starting runlevel 2 (of 2) scan.
Initiating NSE at 13:53
Completed NSE at 13:53, 1.39s elapsed
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up, received reset ttl 249 (0.35s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Scanned at 2025-02-02 13:52:58 IST for 28s
Not shown: 991 closed tcp ports (reset)
PORT      STATE SERVICE      REASON          VERSION
22/tcp    open  ssh          syn-ack ttl 43 OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
25/tcp    filtered smtp
80/tcp    open  http         syn-ack ttl 43 Apache httpd 2.4.7 ((Ubuntu))
135/tcp   filtered msrpc          no-response
139/tcp   filtered netbios-ssn no-response
445/tcp   filtered microsoft-ds no-response
1723/tcp  filtered pptp          no-response
9929/tcp  open  nping-echo   syn-ack ttl 43 Nping echo
31337/tcp open  tcpwrapped   syn-ack ttl 44
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 28.33 seconds
Raw packets sent: 1139 (50.088KB) | Rcvd: 1048 (41.924KB)

(root@kali) - [/home/naitro_07]
#

```

11. Scan using TCP or UDP protocols

TCP


```

(root@kali)-[/home/naitro_07]
# nmap -sT -T4 -vv scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 14:01 IST
Warning: Hostname scanme.nmap.org resolves to 2 IPs. Using 45.33.32.156.
Initiating Ping Scan at 14:01
Scanning scanme.nmap.org (45.33.32.156) [4 ports]
Completed Ping Scan at 14:01, 0.07s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 14:01
Completed Parallel DNS resolution of 1 host. at 14:01, 0.00s elapsed
Initiating Connect Scan at 14:01
Scanning scanme.nmap.org (45.33.32.156) [1000 ports]
Discovered open port 80/tcp on 45.33.32.156
Discovered open port 22/tcp on 45.33.32.156
Discovered open port 9929/tcp on 45.33.32.156
Discovered open port 31337/tcp on 45.33.32.156
Completed Connect Scan at 14:01, 32.01s elapsed (1000 total ports)
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up, received reset ttl 249 (0.33s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Scanned at 2025-02-02 14:01:17 IST for 32s
Not shown: 991 closed tcp ports (conn-refused)
PORT      STATE      SERVICE      REASON
22/tcp    open       ssh          syn-ack
25/tcp    filtered  smtp         no-response
80/tcp    open       http         syn-ack
135/tcp   filtered  msrpc        no-response
139/tcp   filtered  netbios-ssn  no-response
445/tcp   filtered  microsoft-ds no-response
1723/tcp  filtered  pptp         no-response
9929/tcp  open       nping-echo   syn-ack
31337/tcp open       Elite        syn-ack

Read data files from: /usr/share/nmap
Nmap done: 1 IP address (1 host up) scanned in 32.20 seconds
Raw packets sent: 4 (152B) | Rcvd: 1 (40B)

```

```

(root@kali)-[/home/naitro_07]
#

```

UDP

```

(root@kali)-[/home/naitro_07]
# nmap -sU --top-ports 20 scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:39 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.30s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f

PORT      STATE      SERVICE
53/udp    closed     domain
67/udp    closed     dhcps
68/udp    open|filtered dhcpc
69/udp    closed     tftp
123/udp   open       ntp
135/udp   open|filtered msrpc
137/udp   open|filtered netbios-ns
138/udp   open|filtered netbios-dgm
139/udp   open|filtered netbios-ssn
161/udp   closed     snmp
162/udp   open|filtered snmptrap
445/udp   open|filtered microsoft-ds
500/udp   closed     isakmp
514/udp   open|filtered syslog
520/udp   closed     route
631/udp   open|filtered ipp
1434/udp  open|filtered ms-sql-m
1900/udp  closed     upnp
4500/udp  open|filtered nat-t-ike
49152/udp closed     unknown

Nmap done: 1 IP address (1 host up) scanned in 16.02 seconds

```

12. Finding multiple live hosts in the network

```
(naitro_07@kali)-[~]
$ nmap -sP scanme.nmap.org/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 14:03 IST
Nmap scan report for 45.33.32.0
Host is up (0.031s latency).
Nmap scan report for 45.33.32.1
Host is up (0.023s latency).
Nmap scan report for 45.33.32.2
Host is up (0.032s latency).
Nmap scan report for 45.33.32.3
Host is up (0.038s latency).
Nmap scan report for business-software.shop (45.33.32.4)
Host is up (0.50s latency).
Nmap scan report for 45-33-32-5.ip.linodeusercontent.com (45.33.32.5)
Host is up (0.33s latency).
Nmap scan report for 45-33-32-6.ip.linodeusercontent.com (45.33.32.6)
Host is up (0.031s latency).
Nmap scan report for 45-33-32-7.ip.linodeusercontent.com (45.33.32.7)
Host is up (0.073s latency).
Nmap scan report for 45-33-32-8.ip.linodeusercontent.com (45.33.32.8)
Host is up (0.34s latency).
Nmap scan report for 11982-9.members.linode.com (45.33.32.9)
Host is up (0.34s latency).
Nmap scan report for fivekeys.isssoasis.com (45.33.32.10)
Host is up (0.34s latency).
Nmap scan report for 45-33-32-11.ip.linodeusercontent.com (45.33.32.11)
Host is up (0.078s latency).
Nmap scan report for 45-33-32-12.ip.linodeusercontent.com (45.33.32.12)
Host is up (0.039s latency).
Nmap scan report for 45-33-32-13.ip.linodeusercontent.com (45.33.32.13)
Host is up (0.037s latency).
Nmap scan report for 45-33-32-14.ip.linodeusercontent.com (45.33.32.14)
Host is up (0.043s latency).
Nmap scan report for 11982-15.members.linode.com (45.33.32.15)
Host is up (0.43s latency).
Nmap scan report for tdisp2.emelsrv.com (45.33.32.16)
Host is up (0.42s latency).
Nmap scan report for 45-33-32-17.ip.linodeusercontent.com (45.33.32.17)
Host is up (0.031s latency).
Nmap scan report for zcatcel.zcatsystems.com (45.33.32.18)
Host is up (0.31s latency).
Nmap scan report for 11982-19.members.linode.com (45.33.32.19)
Host is up (0.35s latency).
Nmap scan report for 11982-20.members.linode.com (45.33.32.20)
Host is up (0.42s latency).
Nmap scan report for 45-33-32-21.ip.linodeusercontent.com (45.33.32.21)
Host is up (0.031s latency).
Nmap scan report for 45-33-32-22.ip.linodeusercontent.com (45.33.32.22)
Host is up (0.041s latency).
```

Bypassing firewall using fragmentation

```
(naitro_07@kali)-[~]
$ nmap -f scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:05 IST
Stats: 0:11:37 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 67.00% done; ETC: 15:22 (0:05:39 remaining)
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (1.0s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
All 1000 scanned ports on scanme.nmap.org (45.33.32.156) are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)

Nmap done: 1 IP address (1 host up) scanned in 1036.18 seconds

(naitro_07@kali)-[~]
$
```

To set a specific MTU (Maximum Transmission Unit) size:

```

(naitro_07@kali)-[~]
$ nmap --mtu 24 scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:32 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.36s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open      ssh
25/tcp    filtered  smtp
80/tcp    filtered  http
135/tcp   filtered  msrpc
139/tcp   filtered  netbios-ssn
445/tcp   filtered  microsoft-ds
1723/tcp  filtered  pptp
9929/tcp  open      nping-echo
31337/tcp open      Elite

Nmap done: 1 IP address (1 host up) scanned in 35.30 seconds

(naitro_07@kali)-[~]
$

```

Stealthy Scan to Avoid Firewall Detection

```

(root@kali)-[/home/naitro_07]
# nmap -sS scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:06 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.36s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 990 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open      ssh
25/tcp    filtered  smtp
80/tcp    open      http
135/tcp   filtered  msrpc
139/tcp   filtered  netbios-ssn
445/tcp   filtered  microsoft-ds
1723/tcp  filtered  pptp
3261/tcp  filtered  winshadow
9929/tcp  open      nping-echo
31337/tcp open      Elite

Nmap done: 1 IP address (1 host up) scanned in 79.84 seconds

(root@kali)-[/home/naitro_07]
#

```

Using Nmap Script Engine (NSE)

```

(root@kali)-[/home/naitro_07]
# nmap --script vuln scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:06 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.36s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open      ssh
25/tcp    filtered  smtp
80/tcp    open      http
http-csrf:
  Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=scanme.nmap.org
  Found the following possible CSRF vulnerabilities:

    Path: http://scanme.nmap.org:80/
    Form id: nst-head-search
    Form action: /search/

    Path: http://scanme.nmap.org:80/
    Form id: nst-foot-search
    Form action: /search/
http-dombased-xss: Couldn't find any DOM based XSS.
http-stored-xss: Couldn't find any stored XSS vulnerabilities.
http-slowloris-check:
  VULNERABLE:
    Slowloris DOS attack
    State: LIKELY VULNERABLE
    IDs: CVE:CVE-2007-6750
    Slowloris tries to keep many connections to the target web server open and hold
    them open as long as possible. It accomplishes this by opening connections to
    the target web server and sending a partial request. By doing so, it starves
    the http server's resources causing Denial Of Service.

    Disclosure date: 2009-09-17
    References:
      http://ha.ckers.org/slowloris/
      https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2007-6750
135/tcp    filtered  msrpc
139/tcp    filtered  netbios-ssn
445/tcp    filtered  microsoft-ds
1723/tcp   filtered  pptp
9929/tcp   open      nping-echo
31337/tcp  open      Elite

Nmap done: 1 IP address (1 host up) scanned in 405.79 seconds

```

DNS Enumeration

A. Discover Hosts and Services Using DNS

```

(naitro_07@kali)-[~]
$ nmap --script=broadcast-dns-service-discovery scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:07 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.32s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 991 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open      ssh
25/tcp    filtered  smtp
80/tcp    open      http
135/tcp    filtered  msrpc
139/tcp    filtered  netbios-ssn
445/tcp    filtered  microsoft-ds
1723/tcp   filtered  pptp
9929/tcp   open      nping-echo
31337/tcp  open      Elite

Nmap done: 1 IP address (1 host up) scanned in 44.96 seconds

(naitro_07@kali)-[~]
$

```

B. Brute Force DNS Subdomains

```
(naitro_07@kali)-[~]
$ nmap -T4 -p 53 --script dns-brute scanme.nmap.org
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-02-02 15:12 IST
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.24s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f

PORT      STATE SERVICE
53/tcp    closed domain

Host script results:
| dns-brute:
|   DNS Brute-force hostnames:
|   chat.nmap.org - 45.33.32.156
|   chat.nmap.org - 2600:3c01::f03c:91ff:fe18:bb2f
|   *A: 50.116.1.184
|   *AAAA: 2600:3c01:e000:3e6::6d4e:7061
|_

Nmap done: 1 IP address (1 host up) scanned in 50.59 seconds

(naitro_07@kali)-[~]
$
```