EXPERIMENT NO.7

AIM: Perform network discovery using discovery tools (eg. Nmap, mrtg)

Theory:

1. What features does nmap include?

- Host discovery Identifying hosts on a network. For example, listing the hosts that respond to TCP and/or ICMP requests or have a particular port open.
- Port scanning Enumerating the open ports on target hosts.
- Version detection Interrogating network services on remote devices to determine application name and version number.
- TCP/IP stack fingerprinting Determining the operating system and hardware characteristics of network devices based on observations of network activity of said devices.
- Scriptable interaction with the target using Nmap Scripting Engine (NSE) and Lua programming language.

Nmap can provide further information on targets, including reverse DNS names, device types, and MAC addresses.

2. What are the uses of Nmap?

- Auditing the security of a device or firewall by identifying the network connections which can be made to, or through it.
- Identifying open ports on a target host in preparation for auditing.
- Network inventory, network mapping, maintenance and asset management.
- Auditing the security of a network by identifying new servers.
- Generating traffic to hosts on a network, response analysis and response time measurement.
- Finding and exploiting vulnerabilities in a network.
- DNS queries and subdomain search

3. About Network Mapper(Nmap).

Nmap (Network Mapper) is a security scanner originally written by Gordon Lyon (also known by his pseudonym Fyodor Vaskovich) used to discover hosts and services on a computer network, thus creating a "map" of the network. To accomplish its goal, Nmap sends specially crafted packets to the target host and then analyzes the responses. Unlike many simple port scanners that just send packets at some predefined constant rate, Nmap accounts for the network conditions (latency fluctuations, network congestion, the target interference with the scan) during the run. Also, owing to the large and active user community providing feedback and contributing to its features, Nmap has been able to extend its discovery capabilities beyond simply figuring out whether a host is up or down and which ports are open and closed; it can determine the operating system of the target, names and versions of the listening services, estimated uptime, type of device, and presence of a firewall.

4. What are the Basic commands working in Nmap:

- For target specifications: nmap <target's URL or IP with spaces between them>
- For OS detection: nmap -O <target-host's URL or IP>
- For version detection: nmap -sV <target-host's URL or IP>

SYN scan is the default and most popular scan option for good reasons. It can be performed quickly, scanning thousands of ports per second on a fast network not hampered by restrictive firewalls. It is also relatively unobtrusive and stealthy since it never completes TCP connections

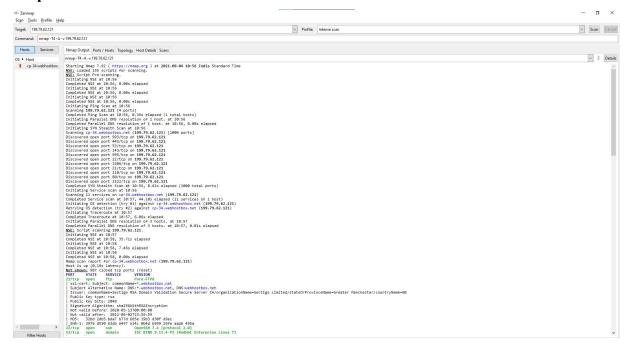
Goal	Command	Example	
Scan a Single Target	nmap [target]	nmap 192.168.0.1	
Scan Multiple Targets	nmap [target1, target2, etc	nmap 192.168.0.1 192.168.0.2	
Scan a Range of Hosts	nmap [range of ip addresses]	nmap 192.168.0.1-10	
Scan an Entire Subnet	nmap [ip address/cdir]	nmap 192.168.0.1/24	
Scan Random Hosts	nmap -iR [number]	nmap -iR 0	
Excluding Targets from a Scan	nmap [targets] – exclude [targets]	nmap 192.168.0.1/24 –exclude 192.168.0.100, 192.168.0.200	
Excluding Targets Using a List	nmap [targets] – excludefile [list.txt]	nmap 192.168.0.1/24 –excludefile notargets.txt	
Perform an Aggressive Scan	nmap -A [target]	nmap -A 192.168.0.1	
Scan an IPv6 Target	nmap -6 [target]	nmap -6 1aff:3c21:47b1:0000:0000:0000:0000:2afe	

Goal	Command	Example
Perform a Ping Only Scan	nmap -sP [target]	nmap -sP 192.168.0.1
Don't Ping	nmap -PN [target]	nmap -PN 192.168.0.1
TCP SYN Ping	nmap -PS [target]	nmap -PS 192.168.0.1
TCP ACK Ping	nmap -PA [target]	nmap -PA 192.168.0.1
UDP Ping	nmap -PU [target]	nmap -PU 192.168.0.1
SCTP INIT Ping	nmap -PY [target]	nmap -PY 192.168.0.1
ICMP Echo Ping	nmap -PE [target]	nmap -PE 192.168.0.1
ICMP Timestamp Ping	nmap -PP [target]	nmap -PP 192.168.0.1
CMP Address Mask Ping	nmap -PM [target]	nmap -PM 192.168.0.1
IP Protocol Ping	nmap -PO [target]	nmap -PO 192.168.0.1

5. Algorithm\Implementation Steps\Installation Steps:

- 1. Download Nmap from www.nmap.org and install the Nmap Software with WinPcap Driver utility.
- 2. Execute the Nmap-Zenmap GUI tool from Program Menu or Desktop Icon
- 3. Type the Target Machine IP Address(ie.Guest OS or any website Address)
- 4. Perform the profiles shown in the utility.

Output:



```
| dns-nsid:

| bind.version: 9.11.4-P2-RedHat-9.11.4-26.P2.e17_9.5

80/tcp open http Apache httpd

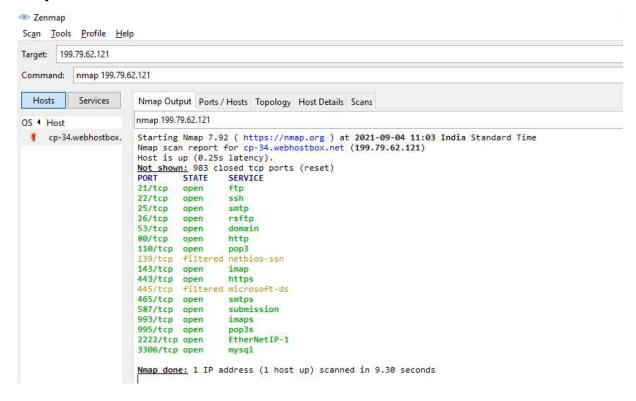
| http-title: Site doesn't have a title (text/html).

| http-server-header: Apache

110/tcp open pop3 Dovecot pop3d
               | Intro-server-header: Apache | 180/tcp point | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 
          | Sale | 
                                                          p open __mmaps:
-capabilities: ID have LOGIN-REFERRALS listed post-login AUTH=LOGINA0001 ENABLE IDLE IMAP4rev1 more AUTH=PLAIN NAMESPACE OK capabilities SASL-IR Pre-login LITERAL+
                     ssl-cert: Subject: commonName=*.webhostbox.net
Subject Alternative Name: DNS: webhostbox.net, DNS:webhostbox.net
Issuer: commonName=Secting RSA Domain Validation Secure Server Ca/organizationName=Sectigo Limited/stateOrProvinceName=Greater Manchester/countryName=GB
Subject: CommonName=Secting RSA Domain Validation Secure Server Ca/organizationName=Sectigo Limited/stateOrProvinceName=Greater Manchester/countryName=GB
                 Issuer: commonName=Secting RSA Domain Validation Secure S
Public Key type: rsa
Public Key type: rsa
Public Key tits: 2048
Signature Algorithm: sha256WithRSEncryption
Not valid before: 2020-08-13100:00:00
Not valid after: 2022-08-231309:00
Not valid after: 2022-08-20131509:00
Not valid after: 2022-08-20131509:00
Not valid after: 4022-08-20131509:00
Not valid after: 4024-08-09131509:00
Not valid after: 4024-08-091315
                 195/tcp open pop3s?
_pop3-capabilities: UIDL PIPELINING CAPA USER TOP AUTH-RESP-CODE SASL(PLAIN LOGIN) RESP-CODES sal-cert: Subject: commonName=".webhostbox.net
Subject Alternative Name: DMS:*.webhostbox.net, DMS:webhostbox.net
Insur: commonhume-Sectigo RSA Domain Validation Secure Server CA/organizationName-Sectigo Limited/stateOrProvinceName-Greater Manchester/countryName-GB Pablic Key type: ras
Pablic Key type: ras
Pablic Key type: ras
Pablic Key into: 2008-08-1780-08-180
Net valid server: 2028-08-1780-08-180
Net vali
  TRACEROUTE (using port 8888/tcp)
HOP RTT ADDRESS
  HOP RTT 1 1.00 ms 2008ESS 12 4.00 ms 3 4.00 ms 4 ... 14 15 262.00 ms cp-34.webhostbox.net (199.79.62.121)
```

```
NSE: Script Post-scanning.
Initiating NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Initiating NSE at 10:58
Completed NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Initiating NSE at 10:58
Completed NSE at 10:58, 0.00s elapsed
Read data files from: C:\Program Files (x86)\Nmap
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 111.75 seconds
Raw packets sent: 1143 (55.344KB) | Rcvd: 1537 (163.027KB)
```

nmap:



traceroute:

```
nmap --traceroute 199.79.62.121
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:15 India Standard Time Nmap scan report for cp-34.webhostbox.net (199.79.62.121)
Host is up (0.26s latency).
Not shown: 983 closed tcp ports (reset)
         STATE
                   SERVICE
PORT
21/tcp
         open
                   ftp
22/tcp
         open
                   ssh
25/tcp
         open
                   smtp
26/tcp
                   rsftp
         open
53/tcp
                   domain
         open
80/tcp
         open
                   http
110/tcp open
                   pop3
139/tcp filtered netbios-ssn
143/tcp open
                   imap
443/tcp open
                   https
445/tcp filtered microsoft-ds
465/tcp open
                  smtps
                   submission
587/tcp open
993/tcp open
                   imaps
995/tcp open
                   pop3s
2222/tcp open
                   EtherNetIP-1
3306/tcp open
                   mysq1
TRACEROUTE (using port 199/tcp)
HOP RTT
              ADDRESS
1
   1.00 ms
               192.168.0.1
2
    3.00 ms
              100.93.152.1
3
   3.00 ms
              114.79.129.57.dvois.com (114.79.129.57)
     .. 14
15 253.00 ms cp-34.webhostbox.net (199.79.62.121)
Nmap done: 1 IP address (1 host up) scanned in 17.31 seconds
```

ip protocol:

```
nmap -Pn 199.79.62.121
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:17 India Standard Time
Nmap scan report for cp-34.webhostbox.net (199.79.62.121)
Host is up (0.26s latency).
Not shown: 983 closed tcp ports (reset)
        STATE
                 SERVICE
PORT
21/tcp
        open
                 ftp
22/tcp
        open
                 55h
25/tcp
        open
                 smtp
26/tcp
        open
                 rsftp
53/tcp
        open
                 domain
80/tcp
        open
                 http
110/tcp open
                 рорз
139/tcp filtered netbios-ssn
143/tcp open
                imap
                 https
443/tcp open
445/tcp filtered microsoft-ds
465/tcp open
                smtps
587/tcp open
                 submission
993/tcp open
                 imaps
                 pop3s
995/tcp open
2222/tcp open
                 EtherNetIP-1
3306/tcp open
                 mysql
Nmap done: 1 IP address (1 host up) scanned in 10.07 seconds
```

aggressive scan of IP address:

```
nmap -A 199.79.62.121
   Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:18 India Standard Time Nmap scan report for cp-34.webhostbox.net (199.79.62.121) Host is up (0.18s latency).

Not.shown; 983 closed tcp ports (reset) PORT STATE SERVICE VERSION 21/tcp open ftp Pure-FTPd 15:51-cert: Subject: commonName=".webhostbox.net | Subject Alternative Name: DNS:*webhostbox.net | Subject Alternative Name: DNS:*webhostbox.net, DNS:webhostbox.net | Not valid before: 2020-05-13708-080:08
                  Subject Alternative Name: DNS: "webnostbox.net, DNS:webl
Not valid before: 2020-65-13100:000000
Not valid after: 2022-06-02723:59:59
//trp open ssh OpenSSH 7.4 (protocol 2.0)
//trp open tcpprapped
smtp-commands: cp-34.webhostbox.net Hello cp-34.webhostbox.net Hell
                        smtp-commands: cp-34.webhostbox.net Hello cp-34.webhostbox.net [182.48.207.125], SIZE 52428800, 8BITMIME, PIPELINING, PIPE_CONNECT, AUTH PLAIN LOGIN, STARTTLS, HELP Commands supported: AUTH STARTTLS HELO EHLO MAIL RCPT DATA BDAT NOOP QUIT RSET HELP
         To/tcp open post Dovecot pop3d Dovecot pop3d
         139/tto filtered netbios-ssn
Dowcot imapd
Do
       485/tcp open smtps?
__smtp-commands: Couldn't establish connection on port 465
587/tcp open smtp Exim smtpd 4.94.2
| smtp-commands: cp.74.webhostbox.net Mello cp.34.webhostbox.net [182.48.207.125], SIZE 52428800, 88ITMIME, PIPELINING, PIPE_CONNECT, AUTH PLAIN LOGIN, STARTTLS, HELP
__Commands supported: AUTH STARTILS HELD EHLO MAIL RCPT DATA BDAT NOOP QUIT RSET HELP
     L Commands supported: AUTH STARTILS HELD EHIO MAIL RCPT DATA BDAT NOOP QUIT RSET HELP
993/tcp open imaps?
| ssl-cert: Subject: commonName=".webhostbox.net
| Subject Alternative Name: DMS::webhostbox.net |
| Not valid before: 2020-05-13700:00:00
| Not valid after: 2022-06-02723:59:59
| Limap-capabilities: more LOGIN-REFERRALS post-login NAMESPACE ID AUTH=PLAIN have IDLE AUTH=LOGINA0001 ENABLE IMAP4rev1 capabilities LITERAL+ Pre-login listed SASL-IR OK
995/tcp open pop3s?
| ssl-cert: Subject alternative Name: DMS::webhostbox.net
| Subject Alternative Name: DMS::webhostbox.net, DMS:webhostbox.net
| Not valid before: 2020-08-313700:00:00
| Not valid after: 2022-08-02723:59:59
| Lopp3-capabilities: SASC(PLAIN LOGIN) CAPA PIPELINING USER RESP-CODES TOP UIDL AUTH-RESP-CODE
2222/tcp open ssh OpenSSH 7.4 (protocol 2.0)
       TRACEROUTE (using port 594/tcp)
HOP RIT ADDRESS
1 1.00 ms 192.168.0.1
2 3.00 ms 100.933.152.1
3 92.00 ms 1147.93225.73.dvis.com (114.79.129.57)
4 ... 14
15 271.00 ms cp-34.webhostbox.net (199.79.62.121)
   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 130.26 seconds
```

aggressive scan of website:

```
| Company | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, | 10, |
```

42 192120 Keegan Vaz **TECMPNB**

Fast Scan:

```
nmap -F 199.79.62.121
```

```
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:30 India Standard Time
Nmap scan report for cp-34.webhostbox.net (199.79.62.121)
Host is up (0.26s latency).
Not shown: 84 closed tcp ports (reset)
        STATE
                  SERVICE
21/tcp open
                  ftp
22/tcp open
                 ssh
25/tcp open smtp
26/tcp open rsftp
53/tcp open domain
80/tcp open http
110/tcp open
                 pop3
139/tcp filtered netbios-ssn
143/tcp open imap
443/tcp open https
445/tcp filtered microsoft-ds
465/tcp open
                 smtps
587/tcp open
                 submission
993/tcp open imaps
995/tcp open pop3s
3306/tcp open mysql
```

Nmap done: 1 IP address (1 host up) scanned in 4.67 seconds

Os Detection:

```
nmap-0 198.78.2.121

Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:31 India Standard Time Nmap scan report for cp-34.webhostbox.net (199.79.82.121)

Not. shown: 383 closed top ports (reset)

FORT STATE SERVICE
21/tcp open sch
22/tcp open sch
26/tcp open sch
36/tcp open sch
3
```

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 17.59 seconds

sequential port scan:

```
nmap -r 199.79.62.121
```

```
Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:33 India Standard Time
Nmap scan report for cp-34.webhostbox.net (199.79.62.121)
Host is up (0.26s latency).
Not shown: 983 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
25/tcp open smtp
22/tcp open ssh
25/tcp open smtp
26/tcp open rsftp
53/tcp open domain
80/tcp open http
110/tcp open pop3
139/tcp filtered netbios-ssn
143/tcp open imap
443/tcp open https
443/tcp open
445/tcp filtered microsoft-ds
465/tcp open smtps
                       submission
587/tcp open
993/tcp open imaps
995/tcp open pop3s
2222/tcp open EtherNetIP-1
                    mysql
3306/tcp open
```

Nmap done: 1 IP address (1 host up) scanned in 9.76 seconds

debug:

```
nmap -d 199.79.62.121
wpcap.dll present, library version: Npcap version 1.50, based on libpcap version 1.10.1-PRE-GIT Starting Nmap 7.92 ( https://nmap.org ) at 2021-09-04 11:42 India Standard Time PORTS: Using top 1000 ports found open (TCP:1000, UDP:0, SCTP:0)
     hostgroups: min 1, max 100000
rtt-timeouts: init 1000, min 100, max 10000
max-scan-delay: TCP 1000, UDP 1000, SCTP 1000
     max-retries: 10, host-timeout: 0
min-rate: 0, max-rate: 0
 Initiating Ping Scan at 11:42
Packet capture filter (device eth4): dst host 192.168.0.111 and (icmp or icmp6 or ((tcp) and (src host 199.79.62.121)))
We got a TCP ping packet back from 199.79.62.121 port 443 (trynum = 0)
Completed Ping Scan at 11:42, 0.40s elapsed (1 total hosts)
Overall sending rates: 10.05 packets / s, 381.91 bytes / s.
Overall Sending rates: 10.05 packets / s, 381.91 bytes / s.

mass_rdns: Using DNS server 192.168.0.1

mass_rdns: Using DNS server 192.168.0.1

Initiating Parallel DNS resolution of 1 host. at 11:42

mass_rdns: 1.108 0/1 [#: 3, OK: 0, NX: 0, DR: 0, SF: 0, TR: 1]

Completed Parallel DNS resolution of 1 host. at 11:42, 1.06s elapsed

DNS resolution of 1 IPs took 1.10s. Mode: Async [#: 3, OK: 1, NX: 0, DR: 0, SF: 0, TR: 1, CN: 0]
Initiating SYN Stealth Scan at 11:42
Scanning cp-34.webhostbox.net (199.79.62.121) [1000 ports]
Packet capture filter (device eth4): dst host 192.168.0.111 and (icmp or icmp6 or ((tcp) and (src host 199.79.62.121)))
Discovered open port 53/tcp on 199.79.62.121
Discovered open port 995/tcp on 199.79.62.121
Discovered open port 21/tcp on 199.79.62.121
Discovered open port 22/tcp on 199.79.62.121
Discovered open port 143/tcp on 199.79.62.121
Discovered open port 80/tcp on 199.79.62.121
 Discovered open port 443/tcp on 199.79.62.121
Discovered open port 110/tcp on 199.79.62.121
Discovered open port 3306/tcp on 199.79.62.121
Discovered open port 993/tcp on 199.79.62.121
Increased max_successful_tryno for 199.79.62.121 to 1 (packet drop)
Increased max_successful_tryno for 199.79.62.121 to 1 (packet drop)
Discovered open port 2222/tcp on 199.79.62.121
Completed SYN Stealth Scan at 11:42, 8.41s elapsed (1000 total ports)
Overall sending rates: 119.43 packets / s, 5254.90 bytes / s.
Nmap scan report for cp-34.webhostbox.net (199.79.62.121)
Host is up, received syn-ack ttl 47 (0.25s latency).
Scanned at 2021-09-04 11:42:09 India Standard Time for 8s
Not shown: 987 closed tcp ports (reset)
PORT STATE SERVICE REASON
21/fcm open ftp syn-ack ttl 49
                                                                         syn-ack ttl 49
syn-ack ttl 49
syn-ack ttl 49
syn-ack ttl 60
 21/tcp
                     open
                                           ftp
 22/tcp
                    open
                                           ssh
 53/tcp
                     open
                                           domain
 80/tcp
                                       http
                     open
 110/tcp open
                                           рор3
                                                                          syn-ack ttl 47
  139/tcp filtered netbios-ssn no-response
 143/tcp open imap syn-ack ttl 49
443/tcp open https syn-ack ttl 47
445/tcp filtered microsoft-ds no-response
993/tcp open imaps syn-ack ttl 47
995/tcp open pop3s syn-ack ttl 49
                                           EtherNetIP-1 syn-ack ttl 43
mysql syn-ack ttl 43
 2222/tcp open
 3306/tcp open
 Final times for host: srtt: 252041 rttvar: 2328 to: 261353
```

CONCLUSION: Thus, we have studied different options to scan ports in Nmap