

INTERNSHIP ASSIGNMENT REPORT

Title: Network Scanning and Security Analysis Using Nmap

Student Details

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Tools Used: Nmap, Wireshark

Operating System: Windows 11

1. Introduction

Network security is a critical aspect of cybersecurity. Identifying active devices and open ports helps in understanding potential risks. This assignment focuses on using Nmap to analyze a local network.

2. Objective

- Install and use Nmap
- Identify live hosts
- Detect open ports and services
- Analyze network traffic
- Identify security risks

3. Tools Used

Nmap – Network scanning

Wireshark – Packet analysis

Command Prompt – Execution

4. Network Information

Local IP Address: 172.17.0.1

Subnet Mask: 255.255.0.0

Network Range: 172.17.0.1/24

22/tcp → SSH (remote shell)

23/tcp → Telnet (insecure remote shell)

21/tcp → FTP (file transfer)

80/tcp → HTTP (web server)

443/tcp → HTTPS (secure web server)

3389/tcp → RDP (Windows Remote Desktop)

445/tcp → SMB (file sharing / Windows shares)

3306/tcp → MySQL database

5432/tcp → PostgreSQL database

5. Methodology:-

Installed Nmap from the official website and verified installation.

Used ipconfig to find the local network range.

Performed a TCP SYN scan using nmap -sS.

Recorded discovered hosts and open ports.

6. 10 Nmap Commands:-

1. Basic Ping Scan :- nmap -sn 81.161.178.68

Checks if a host is up without scanning ports.

2. Full Port Scan (1-65535) :-nmap -p- 81.161.178.68

Scans all 65,535 ports on the host.

3. Scan Specific Ports :-nmap -p 22,80,443 81.161.178.68

Scans only the selected ports.

4. Service & Version Detection:-nmap -sV 81.161.178.68

Shows software version running on each open port.

5. Aggressive Scan:-nmap -A 81.161.178.68

Performs OS detection, version detection, traceroute, script scanning.

6. Operating System Detection:-nmap -O 81.161.178.68

Identifies the OS (Windows/Linux) of the target.

7. Stealth SYN Scan (Default Scan):-nmap -sS 81.161.178.68

Fast and less detectable by firewalls.

8. Scan an Entire Network:-nmap 81.161.178.68

Scans all 256 devices in the subnet.

9. Vulnerability Scan (Using NSE Scripts) :-nmap --script=vuln 81.161.178.68

Runs vulnerability detection scripts.

10. Output Scan Results to a File:-nmap -oN scan_result.txt 81.161.178.681

7. Results and Findings

Multiple hosts and services were discovered. Some open ports could pose security risks if not secured.

8. Conclusion

Nmap is an effective tool for understanding network exposure and improving security posture.



```
Dee5 13:24 ~
root@BK:home\bk

HELP
Commands supported: AUTH HELO EHLO MAIL RCPT DATA BOAT NOOP QUIT RSET HELP
587/tcp open      smtp      Exim smtpd 4.98.2
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS:mail.pesce.ac.in, DNS:pesce.ac.in, DNS:pescemandya.org, DNS:www.pesce.ac.in, DNS:www.pescemandya.org
| Not valid before: 2023-10-09T08:09:45
| Not valid after:  2026-01-07T08:09:44
|_ssl-date: TLS randomness does not represent time
|_http-commands: 81.161.178.68.host.secureserver.net Hello pesce.ac.in [152.57.137.185], SIZE 52428800, LIMITS MAILMAX=1000 RCPTMAX=50000, 8BITMIME, PIPELINING, PIPECONNECT, STARTTLS, HELP
633/tcp filtered  ipp
993/tcp open       imap??
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS:mail.pesce.ac.in, DNS:pesce.ac.in, DNS:pescemandya.org, DNS:www.pesce.ac.in, DNS:www.pescemandya.org
| Not valid before: 2023-10-09T08:09:45
| Not valid after:  2026-01-07T08:09:44
|_ssl-date: TLS randomness does not represent time
|_imap-capabilities: more+IMAPSPACE SASL-IR listed Pre-Login ID have AUTH=PLAIN ENABLE IDLE IMAP4rev1 OK capabilities AUTH=LOGIN@0001 LITERAL+ LOGIN-REFERRALS post-login
995/tcp open       pop3??
| ssl-date: TLS randomness does not represent time
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS:mail.pesce.ac.in, DNS:pesce.ac.in, DNS:pescemandya.org, DNS:www.pesce.ac.in, DNS:www.pescemandya.org
| Not valid before: 2023-10-09T08:09:45
| Not valid after:  2026-01-07T08:09:44
|_pop3-capabilities: UIDL SASL(PLAIN LOGIN) USER AUTH-RESP-CODE PIPELINING RESP-CODES TOP CAPA
3306/tcp open      mysql      MySQL (unauthorized)
537/udp open       domain    (generic dns response: REFUSED)
|_dns-traffic:
|   NSID: 81.161.178.68.host.secureserver.net [38312e3136312e3137382e36382e686f73742e7365637572657365727665722e6e6574]
|   Id.server: 81.161.178.68.host.secureserver.net
|_fingerprint-strings:
|   DNS-SD:
|     services
|     _dns-sd._tcp
|     _ntp
|     _local
|     _NBSTAT:
|       CKAAAAAAA
|       CKAAAAAAAAAAAAAAAAAAAAAA
|       CKAAAAAAAAAAAAAAAAAAAAAA
|       CKAAAAAAAAAAAAAAAAAAAAAA
|       CKAAAAAAAAAAAAAA
|       CKAAAAAAAAAAAAAA
|       CKAAAAAAAAAA
|       CKAAAAAA
|       CKAA
|   rpcInfo:
|     program version port/proto service
|     100000 2.3.4    111/tcp  rpcbind
|     100000 2.3.4    111/udp  rpcbind
|     100000 3.4      111/tcp6  rpcbind
|     100000 3.4      111/udp6  rpcbind
|   139/udp open/filtered msrpc
|   136/udp open/filtered profile
|   137/udp open/filtered netbios-ns
|   138/udp open/filtered netbios-dgm
|   139/udp open/filtered netbios-ssn
|   445/udp open/filtered microsoft-ds
|   633/udp open/filtered ipp
# Services unreported and doesn't return data. If you know the service/version, please submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service
```

```

[...]
, HELP
Commands supported: AUTH HELO EHLO MAIL RCPT DATA BOAT NOOP QUIT RSET HELP
587/tcp open  smtp  Exim smtpd 4.90.2
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS=mail.pesce.ac.in, DNS=pescemandy.org, DNS=www.pesce.ac.in, DNS=www.pescemandy.org
| Not valid before: 2025-10-09T08:09:45
| Not valid after: 2026-01-07T08:09:44
|_x509-eku: TLS randomness does not represent time
|_sntp-commands: 81.161.178.68.host.secureserver.net Helo pesce.ac.in [152.57.137.185], SIZE 52428800, LIMITS MAILMAX=1800 RCPTMAX=50000, 8BITMIME, PIPELINING, PIPECONNECT, STARTTLS, HELP
| Commands supported: AUTH STARTTLS HELO EHLO MAIL RCPT DATA BOAT NOOP QUIT RSET HELP
633/tcp filtered  lpp
993/tcp open  https  Exim httpsd 4.90.2
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS=mail.pesce.ac.in, DNS=pescemandy.org, DNS=www.pesce.ac.in, DNS=www.pescemandy.org
| Not valid before: 2025-10-09T08:09:45
| Not valid after: 2026-01-07T08:09:44
|_sntp-data: TLS randomness does not represent time
|_language: English
|_cipherSuite: ECDHE-ECDSA-SHA256-SHA256 listed Pre-login ID have AUTH=PLAIN ENABLE IDLE IMAP4Rev1 OK capabilities AUTH=LOGIN@0001 LITERAL+ LOGIN-REFERRALS post-login
995/tcp open  pop3?  Exim pop3d 4.90.2
| ssl-state: TLS randomness does not represent time
| ssl-cert: Subject: commonName=mail.pesce.ac.in
| Subject Alternative Name: DNS=mail.pesce.ac.in, DNS=pescemandy.org, DNS=www.pesce.ac.in, DNS=www.pescemandy.org
| Not valid before: 2025-10-09T08:09:45
| Not valid after: 2026-01-07T08:09:44
|_sntp-data: TLS randomness does not represent time
|_language: English
|_cipherSuite: ECDHE-ECDSA-SHA256-SHA256 listed
53/udp open  domain  (generic dns response: REFUSED)
| dns-nat:
|   NSID: 81.161.178.68.host.secureserver.net [8332e316312e3137382e36382e86f73742e736563752657266572e6e6574]
|   id.server: 81.161.178.68.host.secureserver.net
|_fingerprint-strings:
|   DNS-SD:
|     services
|     dns-sd
|     upnp
|     local
|     NBNSstat:
|       CKAAAAAAA=AAAAAAAAAAAAA=AAAAAAAAAAAAA
11/udp open  rpcbind  2-4 (RPC #100000)
| rpcInfo:
|   program version port/proto service
|   100000  2,3,4    111/tcp  rpcbind
|   100000  2,3,4    111/udp  rpcbind
|   100000  3,4      111/tcp  rpcbind
|   100000  3,4      111/udp  rpcbind
139/udp open|filtered  nscpc
136/udp open|filtered  profile
137/udp open|filtered  netbios-ns
138/udp open|filtered  netbios-dgm
139/udp open|filtered  netbios-ssn
445/udp open|filtered  netbios-ns
445/udp open|filtered  netbios-dgm
445/udp open|filtered  netbios-ssn
631/udp open|filtered  lpp
? contains unauthenticated decisive returndata. If you know the certificate/version please submit the following fingerprints at https://man.ora/rnl.htm#submit_rst?newcartriv
[*] MR. ROBOT

File Edit View Go Capture Analyze Statistics Telephone Wireless Tools Help
Apply a display filter: <Ctrl-L>
No. Time Source Destination Protocol Length Info
1 16:23:11.038 2024:8000:41:400::1100:1234 2409:4097:217a:9130. HTTP 3224 HTTP/1.1. 300. Ok (exif/c1s)
| 5557 16.23201958 2024:8000:41:400::1100:1234 2409:4097:217a:9130. HTTP 3224 HTTP/1.1. 300. Ok (exif/c1s)
| 3558 16.232022159 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 88 52618 - 80 [ACK] Seq=316 Ack=1129 Win=8560 Len=0 Tsvl=[2328977257 Tsecr=255274832
| 3559 16.230880411 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 88 52642 - 80 [ACK] Seq=1 Ack=1 Win=6524 Len=0 Tsvl=[328977257 Tsecr=255274805
| 3560 16.232022159 2004:a800:41:108::1f. TCP 88 52642 - 80 [ACK] Seq=1 Ack=316 Win=64228 Len=0 Tsvl=[2328977257 Tsecr=2328976966
| 3561 16.232022159 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 88 52642 - 80 [ACK] Seq=1 Ack=316 Win=64228 Len=0 Tsvl=[2328977257 Tsecr=2328976966
| 3562 16.232311833 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 88 52692 - 88 [ACK] Seq=316 Ack=862 Win=6452 Len=0 Tsvl=[2328977333 Tsecr=255274919
| 3563 16.232311833 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 2602 80 - 5496 [PSH, ACK] Seq=1431 Win=6452 Len=0 Tsvl=[2328977333 Tsecr=255274919
| 3564 16.232311833 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 88 52692 - 88 [ACK] Seq=316 Ack=862 Win=6452 Len=0 Tsvl=[2328977333 Tsecr=255274919
| 3565 16.235939384 146.190.62.39 146.190.62.39 TCP 88 54008 - 88 [ACK] Seq=599 Ack=17863 Win=55888 Len=0 Tsvl=[152787668 Tsecr=273413415
| 3566 16.235939384 146.190.62.39 146.190.62.39 TCP 88 54008 - 88 [ACK] Seq=599 Ack=17863 Win=55888 Len=0 Tsvl=[152787668 Tsecr=273413415
| 3567 16.237293008 2409:4097:217a:9130. 2004:a800:402::1c. TCP 88 54008 - 88 [ACK] Seq=599 Ack=17863 Win=55888 Len=0 Tsvl=[152787668 Tsecr=273413415
| 3568 16.237293008 2409:4097:217a:9130. 2004:a800:402::1c. TCP 88 54008 - 88 [ACK] Seq=599 Ack=17863 Win=55888 Len=0 Tsvl=[152787668 Tsecr=273413415
| 3569 16.238875949 2409:4097:217a:9130. 2004:a800:41:108::1f. TCP 439 GET /favicon.ico HTTP/1.1. 
| 3570 16.266476351 2409:4097:217a:9130. 2006:4700:8562:632. QUIC 361 Protected Payload (XPN), DCID=0118768723c299f57910a825ec2051967cc0f
| 3571 16.266476351 2409:4097:217a:9130. 2006:4700:8562:632. QUIC 88 Standard query 8x4fc3 AAA fonts.googleapis.com
| 3572 16.266697125 10.60.201.49 10.60.201.253 DNS 17 Standard query response 0x5420 0x5420 fonts.googleapis.com
| 3573 16.266992564 10.60.201.49 10.60.201.253 DNS 17 Standard query response 0x5420 0x5420 fonts.googleapis.com
| 3574 16.3008527441 10.60.201.253 10.60.201.49 DNS 17 Standard query response 0x5420 0x5420 fonts.googleapis.com 204:mt-google.com
| 3575 16.3008527441 10.60.201.253 10.60.201.49 DNS 17 Standard query response 0x5420 0x5420 fonts.googleapis.com 204:mt-google.com 140.200.182.74
| 3576 16.300852882 10.60.201.253 10.60.201.49 DNS 180 Standard query response 0x4fc5 0x4fc5 fonts.googleapis.com AAAA 2484:8880:4082:4082::81c::209a
| 3577 16.310265755 2006:4700:8602:632. 2409:4097:217a:9130. QUIC 89 Protected Payload (XPN), DCID=010752d
| 3578 16.312668692 2409:4097:217a:9130. 2004:a800:402::1c. TCP 94 60320 - 443 [SYN] Seq=0 Win=408 Len=0 Tsvl=[152787668 Tsecr=0 WS=0
| 3579 16.312668692 2409:4097:217a:9130. 2004:a800:402::1c. TCP 94 60320 - 443 [SYN] Seq=0 Win=408 Len=0 Tsvl=[152787668 Tsecr=0 WS=0
[*] Frame 3567: Packet, 1812 bytes on wire (8960 bits), 1812 bytes captured (8960 bits) on interface eth0, j 00:08:29:27 de f7 fe e4 51:10:02:0f:88:05 - 0 ... E
[*] Ethernet II, Src: Mr. Robot [12:34:56:78:9a:b3], Dst: Google [08:00:27:de:f7:00] (00:0c:29:27:de:f7)
[*] Internet Protocol Version 4, Src: 140.188.62.39, Dst: 146.190.62.39
[*] Transmission Control Protocol, Src Port: 80, Dst Port: 54008, Seq: 1959, Ack: 559, Len: 946
[*] [0 Reassembled TCP Segments (18960 bytes): #3540(2536), #3541(2536), #3542(2536), #3543(2536), #3544(2536), #3545(2536), #3546(2536), #3547(2536), #3548(2536), #3549(2536), #3550(2536), #3551(2536), #3552(2536), #3553(2536), #3554(2536), #3555(2536), #3556(2536), #3557(2536), #3558(2536), #3559(2536), #3560(2536), #3561(2536), #3562(2536), #3563(2536), #3564(2536), #3565(2536), #3566(2536), #3567(2536), #3568(2536), #3569(2536), #3570(2536), #3571(2536), #3572(2536), #3573(2536), #3574(2536), #3575(2536), #3576(2536), #3577(2536), #3578(2536), #3579(2536), #3580(2536), #3581(2536), #3582(2536), #3583(2536), #3584(2536), #3585(2536), #3586(2536), #3587(2536), #3588(2536), #3589(2536), #3590(2536), #3591(2536), #3592(2536), #3593(2536), #3594(2536), #3595(2536), #3596(2536), #3597(2536), #3598(2536), #3599(2536), #3560(2536), #3561(2536), #3562(2536), #3563(2536), #3564(2536), #3565(2536), #3566(2536), #3567(2536), #3568(2536), #3569(2536), #3570(2536), #3571(2536), #3572(2536), 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