Nmap Scan Report

1. Environment

Attacker VM: Kali Linux (VirtualBox)
Target VM: Metasploitable2 (VirtualBox)
Network: Host-only (192.168.56.0/24)

2. overview of the flags

- -sS **TCP SYN (half-open) scan**. Fast, common, stealthier than a full TCP connect. Requires root.
- -sU **UDP scan**. Discovers UDP services. Much slower and noisier; often requires root.
- -sV **Service/version detection**. Probes open ports to learn software name & version.
- -0 **OS detection**. Tries to fingerprint the target OS via TCP/IP stack characteristics. Requires root and responsive targets.

3. Commands run

- ping -c 4 192.168.56.102
- sudo nmap -sS -Pn -T4 --top-ports 1000 -oN tcp_syn_top1000_TARGET.txt 192.168.56.102
- sudo nmap -sU -Pn -T3 -p 1-2000 -oN udp_TARGET.txt 192.168.56.102
- sudo nmap -O -Pn -T4 -ON os-detect-TARGET.txt 192.168.56.102
- sudo nmap -sS -sV -Pn -T4 --top-ports 1000 -oN svc_version_TARGET.txt 192.168.56.102

4. Findings

```
🔙 🗀 🍃 🚳 🖭 🗸 1 2 3 4 📗
                                                                                                       (genmon)XXX
gayathry@kali: ~
 Session Actions Edit View Help
(gayathry⊗ kali)-[~]
$ sudo nmap -sS -Pn -T4 -top-ports 1000 -oN tcp-syn-top1000-TARGET.txt 192.168.56.102
Starting Nmap 7.95 (https://nmap.org ) at 2025-09-24 18:48 IST
Warning: 192.168.56.102 giving up on port because retransmission cap hit (6).
Nmap scan report for 192.168.56.102
Host is up (0.052s latency).
Not shown: 976 closed tcp ports (reset)
PORT STATE SERVICE
PORT
             STATE
                           SERVICE
21/tcp
             open
                            ftp
22/tcp
                            ssh
             open
23/tcp
                            telnet
              open
25/tcp
              open
                            smtp
53/tcp
                            domain
              open
80/tcp
              open
                            http
111/tcp open
139/tcp open
445/tcp open
                            rpcbind
                            netbios-ssn
                            microsoft-ds
512/tcp
             open
                            exec
513/tcp open
514/tcp open
                           login
shell
1099/tcp open
                            rmiregistry
1524/tcp open
                            ingreslock
2049/tcp open
2121/tcp open
                            ccproxy-ftp
3306/tcp open mysql
3367/tcp filtered satvid-datalnk
5432/tcp open
                            postgresql
5900/tcp open
6000/tcp open
6667/tcp open
8009/tcp open
                           ajp13
```

TCP SCAN

```
gayathry@kali -

Session Actions Edit View Help

5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open vnc
6000/tcp open vnc
6000/tcp open vnc
8000/tcp open irc
80000/tcp open irc
8000/tcp open irc
8000/tcp open irc
8000/tcp open irc
8000/tcp
```

UDP SCAN

```
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                                                                                                                                                                     (genmon)XXX
gayathry@kali: -
 Session Actions Edit View Help
(gayathry@ kali)-[~]

$ sudo nmap = 0 Pn = T4 = oN os-detect-TARGET.txt 192.168.56.102

Starting Nmap 7.95 ( https://nmap.org ) at 2025-09-24 19:16 IST

Warning: 192.168.56.102 giving up on port because retransmission cap hit (6).

Nmap scan report for 192.168.56.102

Host is up (0.016s latency).

Not shown: 977 closed tcp ports (reset)

PORT STATE SERVICE

21/tcp open ftp
21/tcp
22/tcp
23/tcp
25/tcp
53/tcp
80/tcp
                     open ftp
open ssh
open telnet
                     open
open
                                     smtp
                                     domain
http
                      open
                      open
111/tcp
139/tcp
445/tcp
512/tcp
                      open
                                     rpcbind
netbios-ssn
                     open
                      open
                                     microsoft-ds
                                     exec
login
shell
512/tcp open
513/tcp open
514/tcp open
1099/tcp open
1524/tcp open
2049/tcp open
2121/tcp open
3306/tcp open
5432/tcp open
5900/tcp open
6000/tcp open
6000/tcp open
                      open
                                     rmiregistry
ingreslock
                                     nfs
ccproxy-ftp
                                     postgresql
                                     vnc
X11
6667/tcp open
8009/tcp open
                                     ajp13
8180/tcp open
                                     unknown
```

OS Detection Scan

```
📑 🔒 🐸 🖫 🗸
                                                                             (genmon)XXX
                                               4
                                              gayathry@kali: ~
                                                                                                       Session Actions Edit View Help
(gayathry⊕ kali)-[~]

$ sudo nmap -sS -sV -Pn -T4 --top-ports 1000 -oN svc-version--TARGET.txt 192.168.56.102
[sudo] password for gayathry:
Starting Nmap 7.95 (https://nmap.org) at 2025-09-24 19:08 IST
Warning: 192.168.56.102 giving up on port because retransmission cap hit (6).
Nmap scan report for 192.168.56.102
Host is up (2.1s latency).
Not shown: 977 closed tcp ports (reset)
PORT
          STATE SERVICE
                              VERSION
         open ftp
open ssh
21/tcp
                              vsftpd 2.3.4
                              OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
23/tcp
          open telnet
                              Linux telnetd
25/tcp
          open
                 smtp
                               Postfix smtpd
53/tcp
                              ISC BIND 9.4.2
                 domain
          open
                              Apache httpd 2.2.8 ((Ubuntu) DAV/2)
80/tcp
          open http
                               2 (RPC #100000)
111/tcp
         open
                 rpcbind
                 netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
139/tcp open
445/tcp open
512/tcp open
                              netkit-rsh rexecd
                 exec
513/tcp open
                 login
                               OpenBSD or Solaris rlogind
514/tcp open
                 shell
                              Netkit rshd
1099/tcp open
                              GNU Classpath grmiregistry
                 java-rmi
1524/tcp open
                 bindshell
                              Metasploitable root shell
2049/tcp open
                               2-4 (RPC #100003)
                 nfs
2121/tcp open
                               ProFTPD 1.3.1
                 ftp
                               MySQL 5.0.51a-3ubuntu5
3306/tcp open
                 mysql
                              PostgreSQL DB 8.3.0 - 8.3.7
5432/tcp open
                 postgresql
5900/tcp open
                               VNC (protocol 3.3)
6000/tcp open
                               (access denied)
                 X11
6667/tcp open
                               UnrealIRCd
                 irc
8009/tcp open
                 ajp13
                               Apache Jserv (Protocol v1.3)
```

SVC Detection Scan