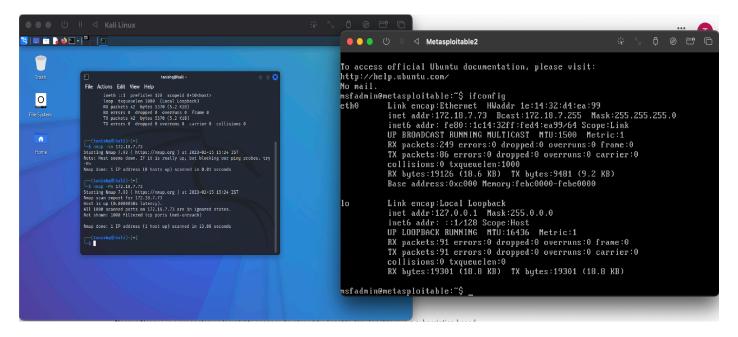
Assignment-3

- 1. What kind of information is shown when you run ping scan for Metasploitable2?
- **1.** \$ Nmap -sn 172.18.7.73



- 2. Which ports are open on the Metasploitable VM? Did you find any additional ports?
- 2. \$ nmap -sT 172.18.7.73 -p-

```
-(kali⊕kali)-[~]
$ nmap -sT 192.168.2.88 -p-
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-15 04:35 EST Nmap scan report for 192.168.2.88
Host is up (0.0031s latency).
Not shown: 65505 closed tcp ports (conn-refused)
             STATE SERVICE
PORT
21/tcp
             open ftp
22/tcp
23/tcp
             open ssh
open telnet
             open smtp
25/tcp
53/tcp open domain
80/tcp open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
3632/tcp open distccd
5432/tcp open postgres
5900/tcp open vnc
                       postgresql
6000/tcp open X11
6667/tcp open irc
6697/tcp open ircs-u
8009/tcp open ajp13
8180/tcp open unknown
8787/tcp open msgsrvr
38014/tcp open unknown
42888/tcp open unknown
48861/tcp open unknown
59825/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 7.57 seconds
```

3. What additional information about the open ports on Metasploitable2 were you able to obtain by using the -sV and -A flags?

3. \$ nmap -sT 192.168.2.88 -p- -sV -A Starting Nmap 7.93 (https://nmap.org) at 2023-02-15 04:56 EST Nmap scan report for 192.168.2.88 Host is up (0.0037s latency). Not shown: 65505 closed tcp ports (conn-refused) PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 2.3.4 | ftp-anon: Anonymous FTP login allowed (FTP code 230) I ftp-syst: | STAT: | FTP server status: Connected to 192.168.2.87 Logged in as ftp TYPE: ASCII No session bandwidth limit Session timeout in seconds is 300 Control connection is plain text Data connections will be plain text vsFTPd 2.3.4 - secure, fast, stable | End of status 22/tcp open ssh OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0) ssh-hostkey: 1024 600fcfe1c05f6a74d69024fac4d56ccd (DSA) __ 2048 5656240f211ddea72bae61b1243de8f3 (RSA) 23/tcp open telnet Linux telnetd 25/tcp open smtp Postfix smtpd _ssl-date: 2023-02-15T09:58:58+00:00; +11s from scanner time. ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/ stateOrProvinceName=There is no such thing outside US/countryName=XX | Not valid before: 2010-03-17T14:07:45 Not valid after: 2010-04-16T14:07:45 smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS, ENHANCEDSTATUSCODES, 8BITMIME, DSN | sslv2: | SSLv2 supported I ciphers: SSL2 RC4 128 WITH MD5 SSL2 RC4 128 EXPORT40 WITH MD5 SSL2_DES_64_CBC_WITH_MD5 SSL2 DES 192 EDE3 CBC WITH MD5 SSL2 RC2 128 CBC EXPORT40 WITH MD5 |_ SSL2_RC2_128_CBC_WITH_MD5 53/tcp open domain ISC BIND 9.4.2 I dns-nsid: | bind.version: 9.4.2 80/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2) http-server-header: Apache/2.2.8 (Ubuntu) DAV/2 http-title: Metasploitable2 - Linux 111/tcp open rpcbind 2 (RPC #100000) | rpcinfo: | program version port/proto service

| 100003 2,3,4 2049/tcp nfs

```
| 100003 2,3,4 2049/udp nfs
   | 100005 1,2,3 41731/udp mountd
   | 100005 1,2,3 59825/tcp mountd
   | 100021 1,3,4 34904/udp nlockmgr
   | 100021 1,3,4 42888/tcp nlockmgr
   | 100024 1 38014/tcp status
   139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
   445/tcp open netbios-ssn Samba smbd 3.0.20-Debian (workgroup: WORKGROUP)
   512/tcp open exec
                        netkit-rsh rexecd
   513/tcp open login
                        OpenBSD or Solaris rlogind
   514/tcp open tcpwrapped
   1099/tcp open java-rmi GNU Classpath grmiregistry
   1524/tcp open bindshell Metasploitable root shell
   2049/tcp open nfs 2-4 (RPC #100003)
   2121/tcp open ftp ProFTPD 1.3.1
   3306/tcp open mysgl MySQL 5.0.51a-3ubuntu5
   | mysql-info:
   | Protocol: 10
   Version: 5.0.51a-3ubuntu5
   | Thread ID: 11
   | Capabilities flags: 43564
   Some Capabilities: SupportsTransactions, Speaks41ProtocolNew, SwitchToSSLAfterHandshake,
   ConnectWithDatabase, SupportsCompression, LongColumnFlag, Support41Auth
   | Status: Autocommit
   | Salt: A,VM`|m.=&DeO=#6%Wh$
   3632/tcp open distccd distccd v1 ((GNU) 4.2.4 (Ubuntu 4.2.4-1ubuntu4))
   5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
   ssl-date: 2023-02-15T09:58:58+00:00; +11s from scanner time.
   ssl-cert: Subject: commonName=ubuntu804-base.localdomain/organizationName=OCOSA/
   stateOrProvinceName=There is no such thing outside US/countryName=XX
   | Not valid before: 2010-03-17T14:07:45
   Not valid after: 2010-04-16T14:07:45
   5900/tcp open vnc VNC (protocol 3.3)
   | vnc-info:
   | Protocol version: 3.3
   | Security types:
   | VNC Authentication (2)
    6000/tcp open X11
                          (access denied)
4. What operating system does nmap report Metasploitable to be?
```

4. \$ sudo nmap -o 172.18.7.73

Starting Nmap 7.93 (https://nmap.org) at 2023-02-15 15:49 IST

Nmap scan report for 172.18.7.73

Host is up (0.0024s latency).

Not shown: 977 closed tcp ports (reset)

PORT STATE SERVICE

21/tcp open ftp 22/tcp open ssh 23/tcp open telnet 25/tcp open smtp 53/tcp open domain 80/tcp open http 111/tcp open rpcbind

```
139/tcp open netbios-ssn
```

445/tcp open microsoft-ds

512/tcp open exec

513/tcp open login

514/tcp open shell

1099/tcp open rmiregistry

1524/tcp open ingreslock

2049/tcp open nfs

2121/tcp open ccproxy-ftp

3306/tcp open mysql

5432/tcp open postgresql

5900/tcp open vnc

6000/tcp open X11

6667/tcp open irc

8009/tcp open ajp13

8180/tcp open unknown

No exact OS matches for host (If you know what OS is running on it,

see https://nmap.org/submit/).

TCP/IP fingerprint:

OS:SCAN(V=7.93%E=4%D=2/15%OT=21%CT=1%CU=36294%PV=Y%DS=2%DC=I%G=Y%TM=63ECB1D

OS:4%P=aarch64-unknown-linux-

gnu)SEQ(SP=C4%GCD=2%ISR=C9%TI=Z%CI=Z%II=I%TS=7

OS:)SEQ(SP=C7%GCD=1%ISR=CE%TI=Z%II=I%TS=7)OPS(O1=M5B4ST11NW6%O2=M5B4ST11NW6

OS:

%O3=M5B4NNT11NW6%O4=M5B4ST11NW6%O5=M5B4ST11NW6%O6=M5B4ST11)WIN(W 1=16A0%W

OS:2=16A0%W3=16A0%W4=16A0%W5=16A0%W6=16A0)ECN(R=Y%DF=N%T=40%W=16D0%O=M5B4NN

OS:SNW6%CC=N%Q=)T1(R=Y%DF=N%T=40%S=O%A=S+

%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=Y

OS:

%DF=N%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T4(R=N)T5(R=Y%DF=N%T=40%W=0%S=Z%A=

OS:S+

%F=AR%O=%RD=0%Q=)T6(R=Y%DF=N%T=40%W=0%S=A%A=Z%F=R%O=%RD=0%Q=)T6(R=N)T7

OS:

(R=N)U1(R=Y%DF=N%T=40%IPL=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=DDA3 %RUD=G)

OS:IE(R=Y%DFI=N%T=40%CD=S)

Network Distance: 2 hops

OS detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 12.59 seconds

5. What web applications are available on Metasploitable 2?

5. TWiki, phpMyAdmin, Multillidae, DVWA, WebDAV

6. Which vulnerabilities are critical? Of these, which appear to be most serious? Doubleclick a vulnerability in the report and read the description

6.



