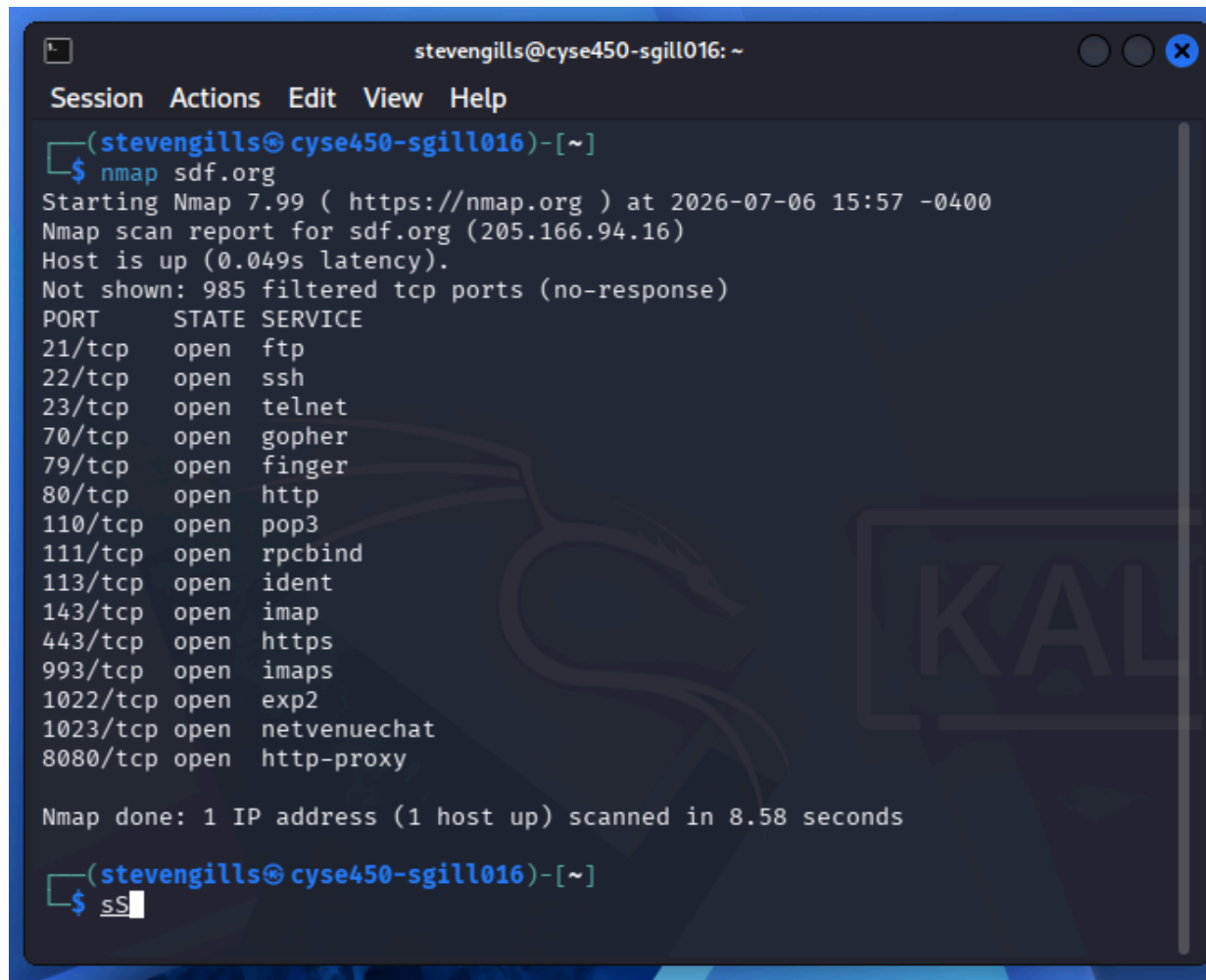


1. Nmap sdf.org

A terminal window titled 'stevengills@cyse450-sgill016: ~' with a menu bar (Session, Actions, Edit, View, Help). The terminal shows the execution of 'nmap sdf.org'. It reports that the host is up and lists 15 open ports with their corresponding services. The scan took 8.58 seconds. The prompt then changes to '\$ ss'.

```
(stevengills@ cyse450-sgill016)-[~]  
$ nmap sdf.org  
Starting Nmap 7.99 ( https://nmap.org ) at 2026-07-06 15:57 -0400  
Nmap scan report for sdf.org (205.166.94.16)  
Host is up (0.049s latency).  
Not shown: 985 filtered tcp ports (no-response)  
PORT      STATE SERVICE  
21/tcp    open  ftp  
22/tcp    open  ssh  
23/tcp    open  telnet  
70/tcp    open  gopher  
79/tcp    open  finger  
80/tcp    open  http  
110/tcp   open  pop3  
111/tcp   open  rpcbind  
113/tcp   open  ident  
143/tcp   open  imap  
443/tcp   open  https  
993/tcp   open  imaps  
1022/tcp  open  exp2  
1023/tcp  open  netvenuechat  
8080/tcp  open  http-proxy  
  
Nmap done: 1 IP address (1 host up) scanned in 8.58 seconds  
  
(stevengills@ cyse450-sgill016)-[~]  
$ ss
```

- a.
2. Ifconfig (kali)

```

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 0.0.0.0
    ether 08:00:27:ef:9d:74 txqueuelen 1000 (Ethernet)
    RX packets 5 bytes 528 (528.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 57 bytes 3496 (3.4 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet6 fe80::a00:27ff:feb8:d734 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:b8:d7:34 txqueuelen 1000 (Ethernet)
    RX packets 43 bytes 6271 (6.1 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 80 bytes 10165 (9.9 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 58 bytes 5652 (5.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 58 bytes 5652 (5.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

a.

3. Ifconfig (metasploitable)

```

    inet addr:10.0.2.15 Bcast:10.0.2.255 Mask:255.255.255.0
    inet6 addr: fd17:625c:f037:2:a00:27ff:feb8:e0b2/64 Scope:Global
    inet6 addr: fe80::a00:27ff:feb8:e0b2/64 Scope:Link
    UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
    RX packets:40 errors:0 dropped:0 overruns:0 frame:0
    TX packets:88 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:5043 (4.9 KB) TX bytes:10703 (10.4 KB)
    Base address:0xd020 Memory:f0200000-f0220000

eth1    Link encap:Ethernet HWaddr 08:00:27:0c:0f:e5
    inet addr:10.99.99.2 Bcast:0.0.0.0 Mask:255.255.255.0
    inet6 addr: fe80::a00:27ff:fe0c:fe5/64 Scope:Link
    UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
    RX packets:14 errors:0 dropped:0 overruns:0 frame:0
    TX packets:49 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:4760 (4.6 KB) TX bytes:6739 (6.5 KB)
    Base address:0xd240 Memory:f0820000-f0840000

lo      Link encap:Local Loopback
    inet addr:127.0.0.1 Mask:255.0.0.0
    inet6 addr: ::1/128 Scope:Host
    UP LOOPBACK RUNNING MTU:16436 Metric:1
msfadmin@metasploitable:~$ _

```

a.

4. Ping

```
(stevengills@cyse450-sgill016)-[~]
$ ping 10.99.99.2
PING 10.99.99.2 (10.99.99.2) 56(84) bytes of data.
64 bytes from 10.99.99.2: icmp_seq=1 ttl=64 time=0.000 ms
64 bytes from 10.99.99.2: icmp_seq=2 ttl=64 time=0.000 ms
64 bytes from 10.99.99.2: icmp_seq=3 ttl=64 time=0.000 ms
^C
— 10.99.99.2 ping statistics —
3 packets transmitted, 3 received, 0% packet loss, time 2524ms
rtt min/avg/max/mdev = 0.000/0.000/0.000/0.000 ms
```

```
(stevengills@cyse450-sgill016)-[~]
$
```

```
msfadmin@metasploitable:~$ ping 10.99.99.1
PING 10.99.99.1 (10.99.99.1) 56(84) bytes of data.
64 bytes from 10.99.99.1: icmp_seq=1 ttl=64 time=0.476 ms
64 bytes from 10.99.99.1: icmp_seq=2 ttl=64 time=0.587 ms
```

```
(stevengills@cyse450-sgill016)-[~]
$ sudo ftp 10.99.99.2
Connected to 10.99.99.2.
220 (vsFTPd 2.3.4)
Name (10.99.99.2:stevengills): msfadmin
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> get cyse450-lab1-gills
local: cyse450-lab1-gills remote: cyse450-lab1-gills
229 Entering Extended Passive Mode (|||19423|).
150 Opening BINARY mode data connection for cyse450-lab1-gills (15 bytes).
100% |*****| 15 0.01 KiB/s --:-- ETA
226 Transfer complete.
15 bytes received in 00:00 (0.01 KiB/s)
ftp> exit
221 Goodbye.
```

```
(stevengills@cyse450-sgill016)-[~]
$ cat cyse450-lab1-gills
test test test
```

```
(stevengills@cyse450-sgill016)-[~]
$
```

5.

221 Goodbye.

```
(stevengills@ cyse450-sgill016)-[~]  
$ cat cyse450-lab1-gills  
test test test
```

```
(stevengills@ cyse450-sgill016)-[~]  
$ nano cyse450-lab1-gills
```

```
(stevengills@ cyse450-sgill016)-[~]  
$ sudo nano cyse450-lab1-gills
```

```
(stevengills@ cyse450-sgill016)-[~]  
$ cat cyse450-lab1-gills  
test test test  
test 3
```

```
(stevengills@ cyse450-sgill016)-[~]  
$
```

6.