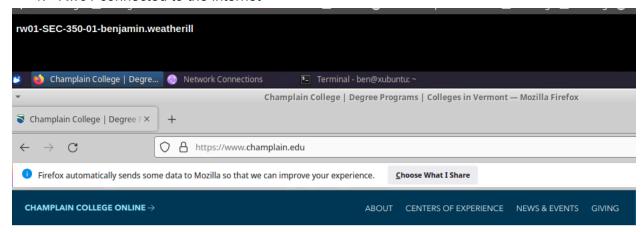
Lab 1.1 - Routing and DMZ SEC-350 Ben W SP24

#### Deliverables:

1. Rw01 connected to the internet





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2. Ping google.com from fw01

```
vyos@fw01-benjamin:~$ ping google.com
PING google.com (142.250.65.238) 56(84) bytes of data.
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=1 ttl=55 time
=11.6 ms
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=2 ttl=55 time
=11.7 ms
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=3 ttl=55 time
=11.4 ms
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=4 ttl=55 time
=11.4 ms
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=4 ttl=55 time
=11.4 ms
^C
--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 11.396/11.517/11.705/0.129 ms
```

### 3. Ping working but no dns resolution on web01

```
| Iben@localhost ~ 1$ ping 8.8.8.8 | PING 8.8.8.8 | PING 8.8.8.8 | (8.8.8.8) | 56(84) | bytes of data. | 64 bytes from 8.8.8.8 | icmp_seq=1 ttl=54 time=11.8 ms | 64 bytes from 8.8.8.8 | icmp_seq=2 ttl=54 time=11.6 ms | 64 bytes from 8.8.8.8 | icmp_seq=3 ttl=54 time=11.6 ms | 64 bytes from 8.8.8.8 | icmp_seq=4 ttl=54 time=11.5 ms | ^C | --- 8.8.8.8 | ping statistics --- | 4 packets transmitted, 4 received, 0% packet loss, time 3004ms | rtt min/avg/max/mdev = 11.460/11.597/11.826/0.174 ms | Iben@localhost ~ 1$ ping google.com | ping: google.com | Name or service not known | Iben@localhost ~ 1$ _
```

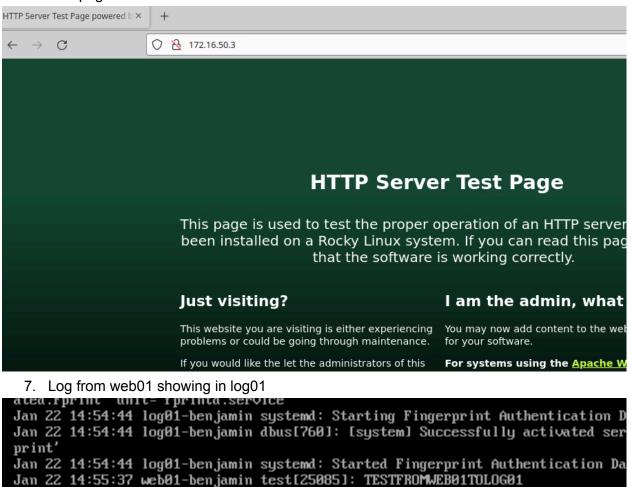
## 4. Successful ping to google.com from web01 and hostname

```
[ben@localhost ~1$ ping google.com
PING google.com (142.250.65.238) 56(84) bytes of data.
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=1 ttl=54 time=11.7 ms
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=2 ttl=54 time=12.0 ms
^C
--- google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 11.729/11.878/12.027/0.149 ms
[ben@localhost ~1$ hostname
web01-benjamin
```

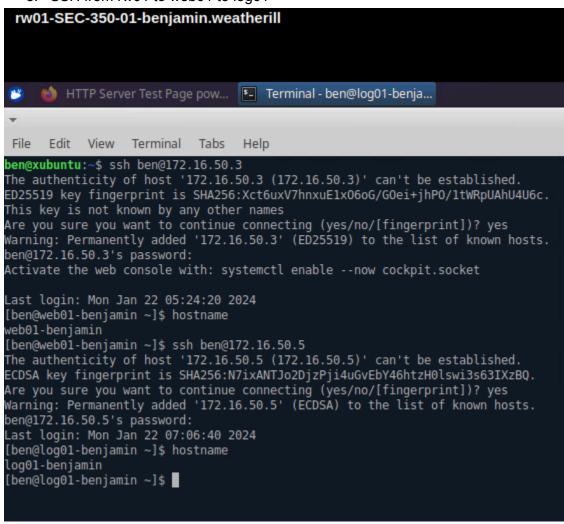
# 5. Log01 ifconfig and ping to google.com

```
[ben@localhost ~1$ ifconfig
ens192: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 172.16.50.5 netmask 255.255.0.0 broadcast 172.16.255.255
        inet6 fe80::5ee1:5d08:5fa3:fa10 prefixlen 64 scopeid 0x20<link>
        ether 00:50:56:a1:e9:59 txqueuelen 1000 (Ethernet)
        RX packets 33 bytes 3453 (3.3 KiB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 112 bytes 13664 (13.3 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 264 bytes 22944 (22.4 KiB)
        RX errors 0 dropped 0 overruns 0 frame 0
TX packets 264 bytes 22944 (22.4 KiB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[ben@localhost ~1$ ping google.com
PING google.com (142.250.65.238) 56(84) bytes of data.
64 bytes from lga25s73-in-f14.1e100.net (142.250.65.238): icmp_seq=1 ttl=54 time=11.6 ms
--- google.com ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 11.632/11.632/11.632/0.000 ms
[ben@localhost ~1$
```

# 6. Test page of web01 shown on rw01



# 8. SSH from rw01 to web01 to log01



## 9. vyOS Tech Journal:

https://github.com/benjamin-weatherill/SEC-350/wiki/VyOS-Set%E2%80%90up-Information

#### 10. Lab Tech Journal:

https://github.com/benjamin-weatherill/SEC-350/wiki/Lab-1.1-%E2%80%90-Routing-and-DMZ