



Cybersecurity

Module 9 Challenge Submission File

In a Network Far, Far Away!

Make a copy of this document to work in, and then for each mission, add the solution below the prompt. Save and submit this completed file as your Challenge deliverable.

Mission 1

1. Mail servers for starwars.com:

```
Server:      192.168.13.2
Address:     192.168.13.2#53
```

Non-authoritative answer:

```
starwars.com    mail exchanger = 10 aspmx2.googlemail.com.
starwars.com    mail exchanger = 10 aspmx3.googlemail.com.
starwars.com    mail exchanger = 5 alt2.aspmx.l.google.com.
starwars.com    mail exchanger = 5 alt1.aspx.l.google.com.
starwars.com    mail exchanger = 1 aspmx.l.google.com.
```

Authoritative answers can be found from:

```
aspmx.l.google.com    internet address = 172.217.197.27
aspmx2.googlemail.com internet address = 64.233.186.26
aspmx2.googlemail.com has AAAA address 2800:3f0:4003:c00::1a
aspmx3.googlemail.com has AAAA address 2a00:1450:400b:c00::1a
```

2. Explain why the Resistance isn't receiving any emails:

The urls for the exchange servers are wrong

3. Suggested DNS corrections:

Asltx.1.google.com and asltx.2.google.com should be the urls instead

Mission 2

1. Sender Policy Framework (SPF) of theforce.net:

Server: 192.168.13.2
Address: 192.168.13.2#53

Non-authoritative answer:

theforce.net text

"google-site-verification=ycgY7mtk2oUZMagcffhFL_Qaf8Lc9tMRkZZSuig0d6w"

theforce.net text = "v=spf1 a mx mx:smtp.secureserver.net
include:aspmx.googlemail.com ip4:104.156.250.80 ip4:45.63.15.159
ip4:45.63.4.215"

theforce.net text =

"google-site-verification=XTU_We07Cux-6WCS0Itl0c_WS29hzo92jPE341ckb0Q"

2. Explain why the Force's emails are going to spam:

The server ip address is wrong.

3. Suggested DNS corrections:

The server ip address should be 45.23.176.21 instead

Mission 3

1. Document the CNAME records:

```
Server:      192.168.13.2
Address:     192.168.13.2#53
```

```
Non-authoritative answer:
www.theforce.net      canonical name = theforce.net.
```

2. Explain why the subpage `resistance.theforce.net` isn't redirecting to `theforce.net`:

The canonical name needs to be changed

3. Suggested DNS corrections:

^ It should be changed to `resistance.theforce.net`

Mission 4

1. Confirm the DNS records for `princessleia.site`:

```
Server:      192.168.13.2
Address:     192.168.13.2#53
```

```
Non-authoritative answer:
princessleia.site      nameserver = ns26.domaincontrol.com.
princessleia.site      nameserver = ns25.domaincontrol.com.
```

```
Authoritative answers can be found from:
ns25.domaincontrol.com internet address = 97.74.102.13
ns25.domaincontrol.com has AAAA address 2603:5:2161::d
ns26.domaincontrol.com internet address = 173.201.70.13
ns26.domaincontrol.com has AAAA address 2603:5:2261::d
```

2. Suggested DNS record corrections to prevent the issue from occurring again:

Add ns2.galaxybackup.com to the nameservers

Mission 5

1. Document the shortest OSPF path from Batuu to Jedha:

a. OSPF path:

D-C-E-F-J-I-L-Q-T-V-Jedha

b. OSPF path cost:

23

Mission 6

1. Wireless key:

dictionary

2. Host IP addresses and MAC addresses:

a. Sender MAC address:

00:0f:66Fe3:e4:01

b. Sender IP address:

172.16.0.1

c. Target MAC address:

00:13:ce:55:98:ef

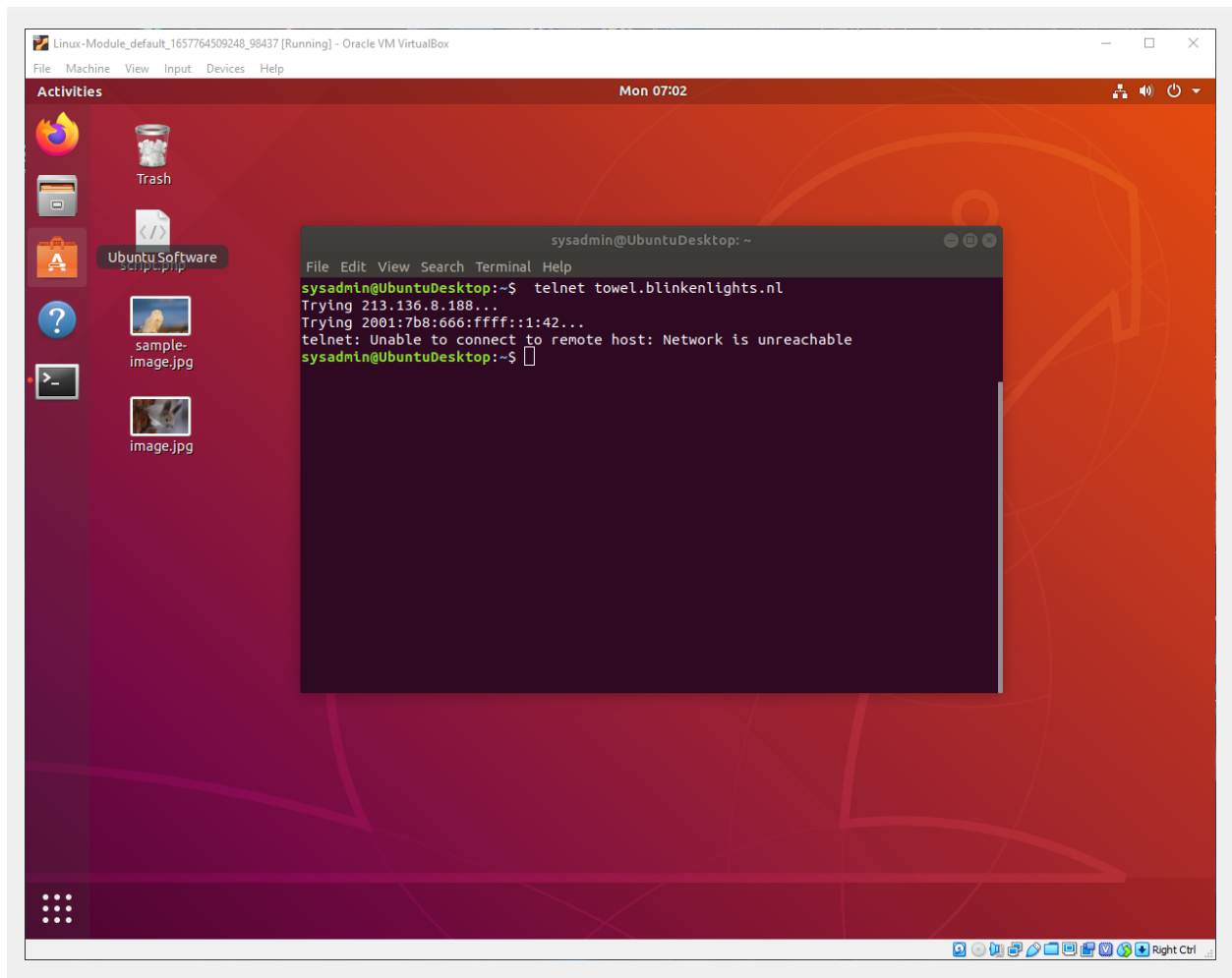
d. Target IP address:

172.16.0.1

Mission 7

1. Screenshot of results:

Oof



After going to the website:

