



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:

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

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

```
[their mx record isnt set to the right primary and secondary mail servers.]
```

3. Suggested DNS corrections:

```
[they should change it to 1 astlx.l.google.com]
```

```
And 5 astlx.2.google.com
```

Mission 2

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

```
[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"]
```

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

```
[the server ip is incorrect]
```

3. Suggested DNS corrections:

```
[The corrected DNS should have an ip address of 45.23.176.21]
```

Mission 3

1. Document the CNAME records:

```
www.theforce.net  canonical name = theforce.net.
```

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

```
Because its listed as theforce.net instead of www.theforce.net
```

3. Suggested DNS corrections:

```
It should be resistance.theforce.net instead of theforce.net
```

Mission 4

1. Confirm the DNS records for princessleia.site:

```
princessleia.site nameserver = ns25.domaincontrol.com.  
princessleia.site nameserver = ns26.domaincontrol.com.
```

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

[Enter text here]

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

- b. OSPF path cost:

[21]

Mission 6

1. Wireless key:

[Enter text here]

2. Host IP addresses and MAC addresses:

- a. Sender MAC address:

Cisco-Li_e3:e4:01 (00:0f:66:e3:e4:01)

- b. Sender IP address:

172.16.0.1

c. Target MAC address:

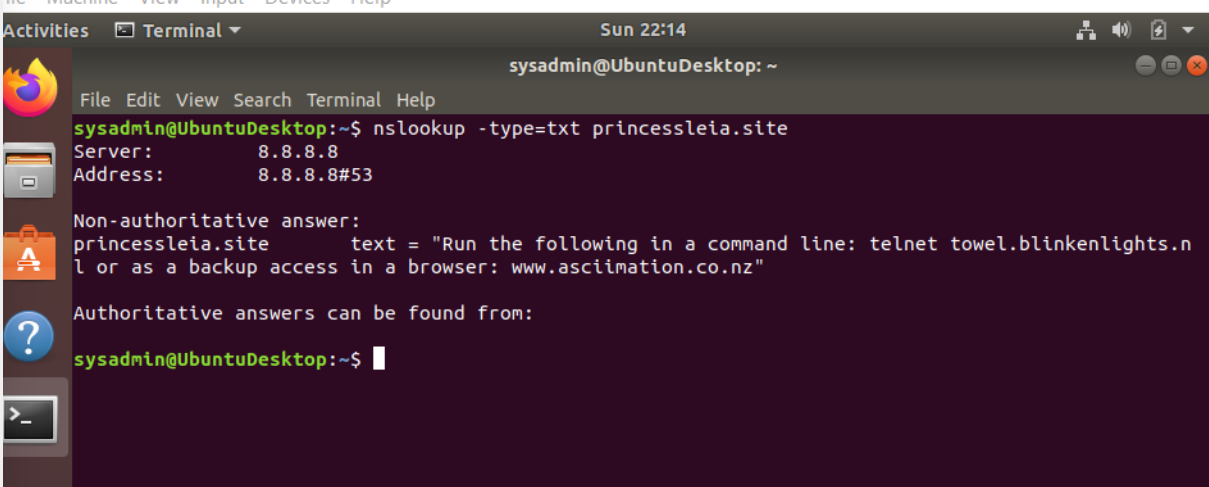
IntelCor_55:98:ef (00:13:ce:55:98:ef)

d. Target IP address:

172.16.0.101

Mission 7

1. Screenshot of results:



The screenshot shows a terminal window titled "Terminal" with the user "sysadmin@UbuntuDesktop". The command executed is `nslookup -type=txt princessleia.site`. The output shows the server as 8.8.8.8 and the address as 8.8.8.8#53. A non-authoritative answer is provided: `princessleia.site text = "Run the following in a command line: telnet towel.blinkenlights.nl or as a backup access in a browser: www.asciimation.co.nz"`. The terminal also shows the prompt `sysadmin@UbuntuDesktop:~$`.