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

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

```
The mail servers are not set to the proper primary and secondary servers
```

3. Suggested DNS corrections:

```
starwars.com mail exchanger = 1 asltx.1.google.com
Starwars.com mail exchanger = 2 asltx.2.google.com
```

Mission 2

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

```
Theforce.net text = "v=spf1 a mx a:mail.wise-advice.com
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 Ip addresses of the correct mail server are not listed and need to be
changed to the right one: ip4:104.156.250.80 ip4:45.63.15.159
ip4:45.63.4.215  ip4:104.207.135.156 ~all"
```

3. Suggested DNS corrections:

```
Needs to have 45.23.176.21 listed in order for the mail to go to the proper
location.
```

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`:

```
Resistance.theforce.net is not redirecting to the force.net because the
canonical name is listed correctly but not the first website.
```

3. Suggested DNS corrections:

```
The corrected DNS should be:
resistance.theforce.net canonical name= theforce.net
```

Mission 4

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

```
Current name servers:
princessleia.site nameserver = ns25.domaincontrol.com.
princessleia.site nameserver = ns26.domaincontrol.com.
```

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

```
Change the second row to the backup DNS server
princessleia.site nameserver = ns26.domaincontrol.com.
princessleia.site nameserver = ns2.galaxybackup.com
```

Mission 5

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

   a. `OSPF` path:

```
DCEFJILQTV
```

   b. `OSPF` path cost:

```
21
```

Mission 6

1. Wireless key:

```
dictionary:linksys
```

2. Host IP addresses and MAC addresses:

a. Sender MAC address:

```
00:0f:66:e3:e4:01
```

b. Sender IP address:
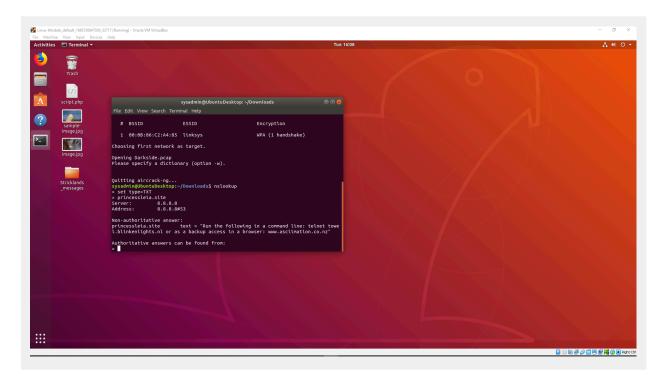
```
172.16.0.1
```

c. Target MAC address:

```
00:13:ce:55:98:ef
```

d. Target IP address:

```
172.16.0.101
```

Mission 7

1. Screenshot of results: