

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:

```
Non-authoritative answer:
starwars.com mail exchanger = 5 alt1.aspx.l.google.com.
starwars.com mail exchanger = 1 aspmx.l.google.com.
starwars.com mail exchanger = 5 alt2.aspmx.l.google.com.
starwars.com mail exchanger = 10 aspmx2.googlemail.com.
starwars.com mail exchanger = 10 aspmx3.googlemail.com.
```

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

We're told that asltx.l.google.com should be the primary mail server and asltx.2.google.com should be secondary but after running nslookup -type=MX starwars.com that does not match with the info given

3. Suggested DNS corrections:

```
primary- starwars.com mail exchanger = 1 asltx.aspx.l.google.com
secondary- starwars.com mail exchanger = 5 asltx.2.aspmx.2.google.com
```

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

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

```
The Force has not updated their DNS record to implement their new IP 45.23.176.21; emails must come from authorized IP addresses
```

3. Suggested DNS corrections:

```
The updated DNS should include the new IP.

"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 ip4:104.207.135.156 ip4:45.23.176.21 ~all"

theforce.net text = "v=spf1 a mx a:mail.wise-advice.com mx:smtp.secureserver.net include:aspmx.googlemail.com ip4:45.23.176.21
```

1. Document the CNAME records:

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

Authoritative answers can be found from:
```

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

The DNS record is not specified, if done correctly, when nslookup is used there should be a CNAME that comes up

3. Suggested DNS corrections:

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

Mission 4

1. Confirm the DNS records for princessleia.site:

```
Server: 8.8.8.8
Address: 8.8.8.8#53

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

Authoritative answers can be found from:
```

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

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

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

b. OSPF path cost:

23 hops

Mission 6

1. Wireless key:

dictionary

Aircrack-ng 1.2 rc4

[00:00:01] 2280/7120714 keys tested (1314.41 k/s)

Time left: 1 hour, 30 minutes, 17 seconds 0.03%

KEY FOUND! [dictionary]

Master Key : 5D F9 20 B5 48 1E D7 05 38 DD 5F D0 24 23 D7 E2

52 22 05 FE EE BB 97 4C AD 08 A5 2B 56 13 ED E2

Transient Key : 1B 7B 26 96 03 F0 6C 6C D4 03 AA F6 AC E2 81 FC

55 15 9A AF BB 3B 5A A8 69 05 13 73 5C 1C EC E0 A2 15 4A E0 99 6F A9 5B 21 1D A1 8E 85 FD 96 49 5F B4 97 85 67 33 87 B9 DA 97 97 AA C7 82 8F 52

EAPOL HMAC : 6D 45 F3 53 8E AD 8E CA 55 98 C2 60 EE FE 6F 51

- 2. Host IP addresses and MAC addresses:
 - a. Sender MAC address:

00:13:ce:55:98:ef

b. Sender IP address:

172.16.0.101

c. Target MAC address:

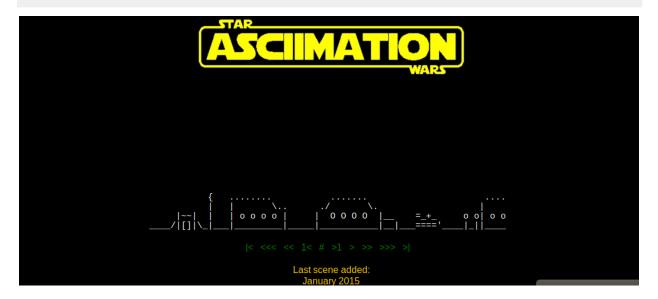
00:0f:66:e3:e4:01

d. Target IP address:

172.16.0.1

1. Screenshot of results:

[Insert screenshot here]



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