Mission 1

Issue: Due to the DoS attack, the Empire took down the Resistance's DNS and primary email servers.

- The Resistance's network team was able to build and deploy a new DNS server and mail server.
- The new primary mail server is asltx.l.google.com and the secondary should be asltx. 2.google.com.
- The Resistance (starwars.com) is able to send emails but unable to receive any.

Your mission:

Determine and document the mail servers for starwars.com using NSLOOKUP.

Non-authoritative answer:

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

MX Records are pointing to different server locations than expected for secondary server

Corrected MX records should be:

Non-authoritative answer:

starwars.com mail exchanger = 1 aspmx.l.google.com.

starwars.com mail exchanger = 5 asltx.2.google.com.

Mission 2

Your mission:

• Determine and document the SPF for theforce.net using NSLOOKUP.

sysadmin@UbuntuDesktop:~\$ nslookup -type=txt theforce.net **Server**: 8.8.8.8

Address: 8.8.8.8#53

Non-authoritative answer:

theforce.net text = "google-siteverification=XTU_We07Cux-6WCSOltl0c_WS29hzo92jPE341ckbOQ"
theforce.net text = "google-siteverification=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:**45.23.176.21**"

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

• Expected IP address for mail server is not listed in SPF string, as a result the destination mail server is being flagged as malicious

Document what a corrected DNS record should be.

sysadmin@UbuntuDesktop:~\$ nslookup -type=txt theforce.net

Server: 8.8.8.8

Address: 8.8.8.8#53

Non-authoritative answer:

theforce.net text = "google-site-

verification=XTU We07Cux-6WCSOltl0c WS29hzo92jPE341ckbOQ"

```
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"
```

Mission 3

Your mission:

 Document how a CNAME should look by viewing the CNAME of www.theforce.net using NSLOOKUP.

```
Authoritative answers can be found from:
theforce.net
origin = WebPublish_Othe
mail addr = hostmaster
serial = 2017110901
refresh = 900
retry = 600
expire = 86400
minimum = 3600
```

Explain why the sub page of resistance.theforce.net isn't redirecting to theforce.net.

There are no canonical CName records for resistance theforce, net or

www.theforce.net

Authoritative answers can be found from:

> resistance.theforce.net

Server: 8.8.8.8

Address: 8.8.8.8#53

** server can't find resistance.theforce.net: NXDOMAIN

Document what a corrected DNS record should be.

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

Mission 4

Issue: During the attack, it was determined that the Empire also took down the primary DNS server of princessleia.site.

- Fortunately, the DNS server for princessleia.site is backed up and functioning.
- However, the Resistance was unable to access this important site during the attacks and now they need you to prevent this from happening again.
- The Resistance's networking team provided you with a backup DNS server of:
- ns2.galaxybackup.com.

Your mission:

Confirm the DNS records for princessleia.site.

nslookup

> set type=ns

> 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.

• Document how you would fix the DNS record to prevent this issue from happening again.

•

To correct the issue, the secondary nameserver should be changed from ns26.domaincontrol.com to ns2.galaxybackup.com

Mission 5

determine the OSPF shortest path from Batuu to Jedha. Batuu>

D>C>E>F>J>I>L>Q>T>V

1 2 1 1 1 6 4 2 2 : 21 hops total

Confirm your path doesn't include Planet N in its route.

Batuu>D>C>E>F>J>I>L>Q>T>V

 Document the shortest path so it can be used by the Resistance to develop a static route to improve the traffic.

Batuu>D>C>E>F>J>I>L>Q>T>V

Mission 6

dictionary:linksys

 Document these IP and MAC Addresses, as the resistance will use these IP addresses to launch a retaliatory attack.

Sender: Cisco-Li | MAC 00:0f:66:e3:e4:01 | IP 172.16.0.1

Target: IntelCor_55:98:ef | MAC 00:13:ce:55:98:ef | IP 172.16.0.101

Mission 7

As a thank you for saving the galaxy, the Resistance wants to send you a secret message!

Your Mission:

View the DNS record from Mission #4.

- The Resistance provided you with a hidden message in the TXT record, with several steps to follow.
- Follow the steps from the TXT record.
- nslookup
- set q = txt
- princessleia.site
- Take a screen shot of the results.

```
Non-authoritative answer:

princessleia.site text = "Run the following in a command line: telnet tow
l.blinkenlights.nl or as a backup access in a browser: www.asciimation.co.nz"

Authoritative answers can be found from:
```



EpisodeIV

A NEW HOPE

It is a period of civil war. Rebel spaceships, striking from a hidden base, have won

Last scene added: January 2015