Mission 1:

- To determine the Mail Servers for starwars.com, I entered the command **nslookup -type=MX starwars.com.** Results shown below:

```
sysadmin@UbuntuDesktop:~$ nslookup -type=MX starwars.com
Server:         8.8.8.8
Address:        8.8.8.8#53

Non-authoritative answer:
starwars.com    mail exchanger = 5 alt2.aspmx.l.google.com.
starwars.com    mail exchanger = 5 alt1.aspx.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.

Authoritative answers can be found from:
```

- The reason The Resistance isn't receiving any emails is due to the DNS MX record being misconfigured. A corrected DNS record should include **asltx.l.google.com** and the secondary as **astlx.2.google.com**.

Mission 2:

- To determine the SPF for theforce.net, I used the command **nslookup –type=txt theforce.net**. Results shown below:

```
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=ycgY7mtk2oUZMagcffhFL_Qaf8Lc9tMRkZZSuig0d6w"
theforce.net    text = "google-site-verification=XTU_We07Cux-6WCSOItl0c_WS29hzo92jPE341ckbOQ"
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"

Authoritative answers can be found from:

sysadmin@UbuntuDesktop:~$
```

- The Force's emails are being sent to spam due to the server IP address listed incorrectly in the SPF record. The correct DNS record should include the IP address 45.23.176.21.

Mission 3:

- To determine why the Resistance isn't able to read the bulletin details, I used command **nslookup -type=cname www.theforce.net.** Results shown below:

```
sysadmin@UbuntuDesktop:~$ nslookup -type=cname www.theforce.net
Server:         8.8.8.8
Address:        8.8.8.8#53

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

Authoritative answers can be found from:
```

- The reason why the sub page resistance.theforce.net isn't redirecting is due to the canonical name being set to theforce.net. The correct DNS record should show the canonical name www.theforce.net for the resistance.theforce.net.

Mission 4:

- To confirm the DNS records for princessleia.site, I used the command **nslookup -type=ns princessleia.site**. Results shown below:

```
sysadmin@UbuntuDesktop:~$ nslookup -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.

Authoritative answers can be found from:

sysadmin@UbuntuDesktop:~$
```

- To prevent the Resistance from being unable to access the site during an attack, the backup DNS server of ns2.galaxybackup.com needs to be added to the list of name servers.

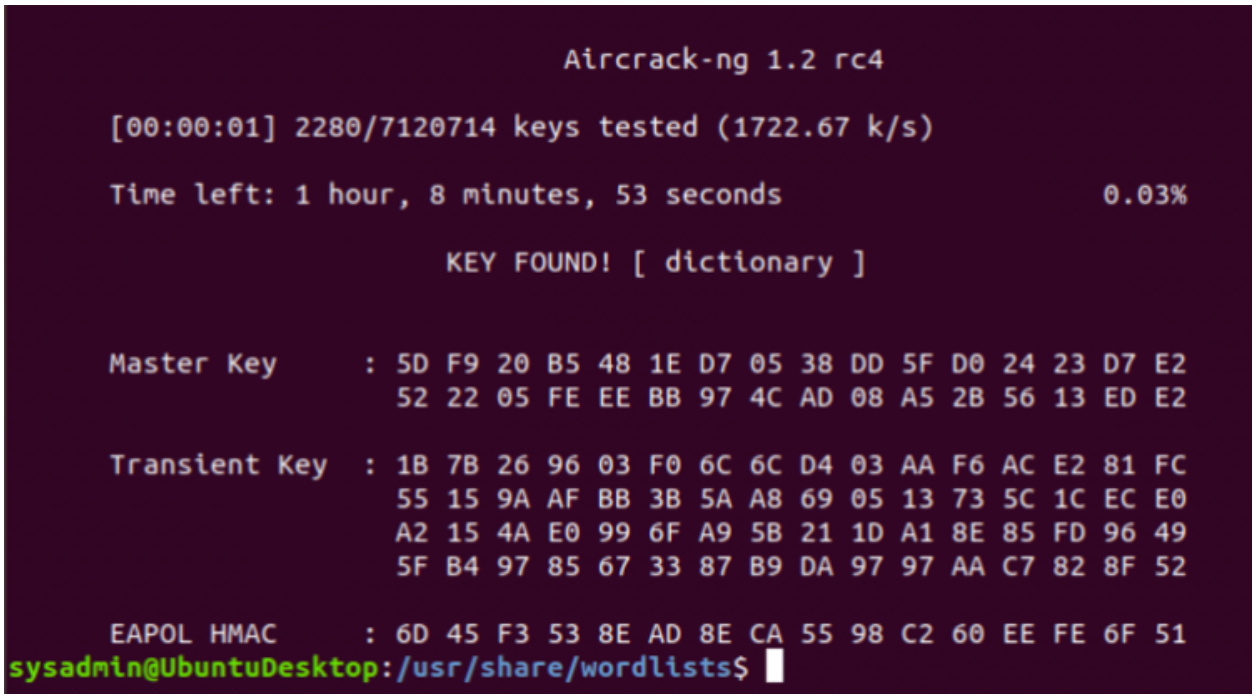
Mission 5:

- After analyzing the Galaxy Network Map, the shortest route from Batuu to Jedha is: Batuu – Planet D – Planet C – Planet E – Planet F – Planet J – Planet I – Planet L – Planet Q – Planet T – Planet V – Jedha.

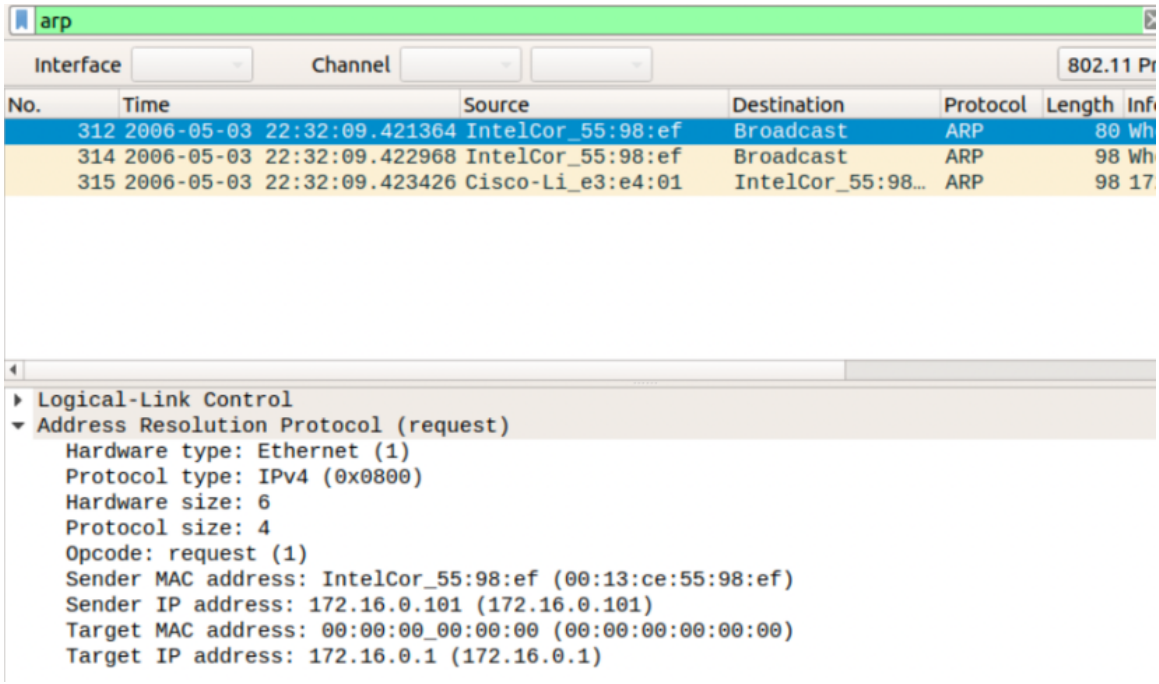
- The path above is the shortest path without including Planet N.

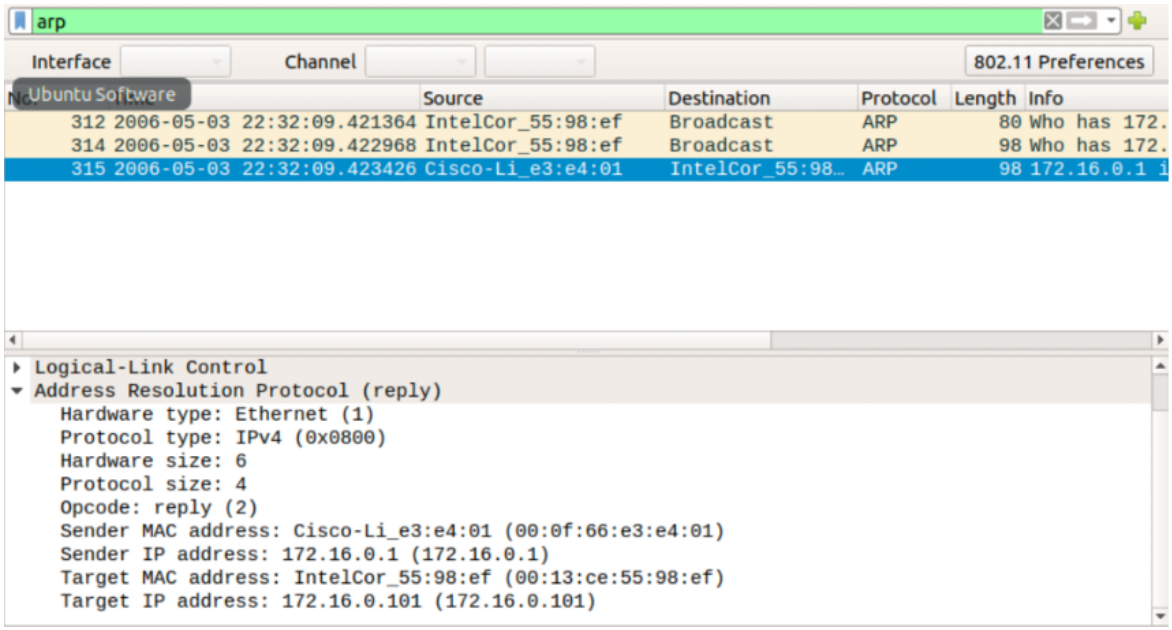
Mission 6:

- To determine the Dark Side's secret key, I first moved the pcap file from **Downloads** to **usr/share/wordlists/.** Then used the command **aircrack-ng Darkside.pcap -w rockyou.txt.** Results shown below:



- Once I retrieved the key, I edited the decryption keys under the 802.11 Preferences and filtered for **ARP.** Results shown below:





- Based from the results above, the Host IP addresses and MAC addresses are:
  - 172.16.0.101 and 172.16.0.1

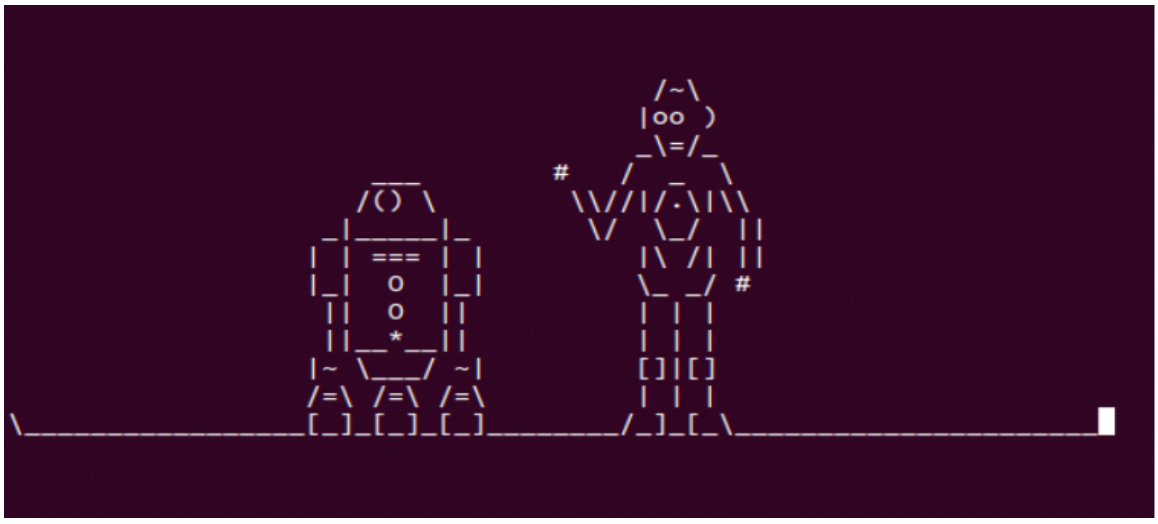
Mission 7:

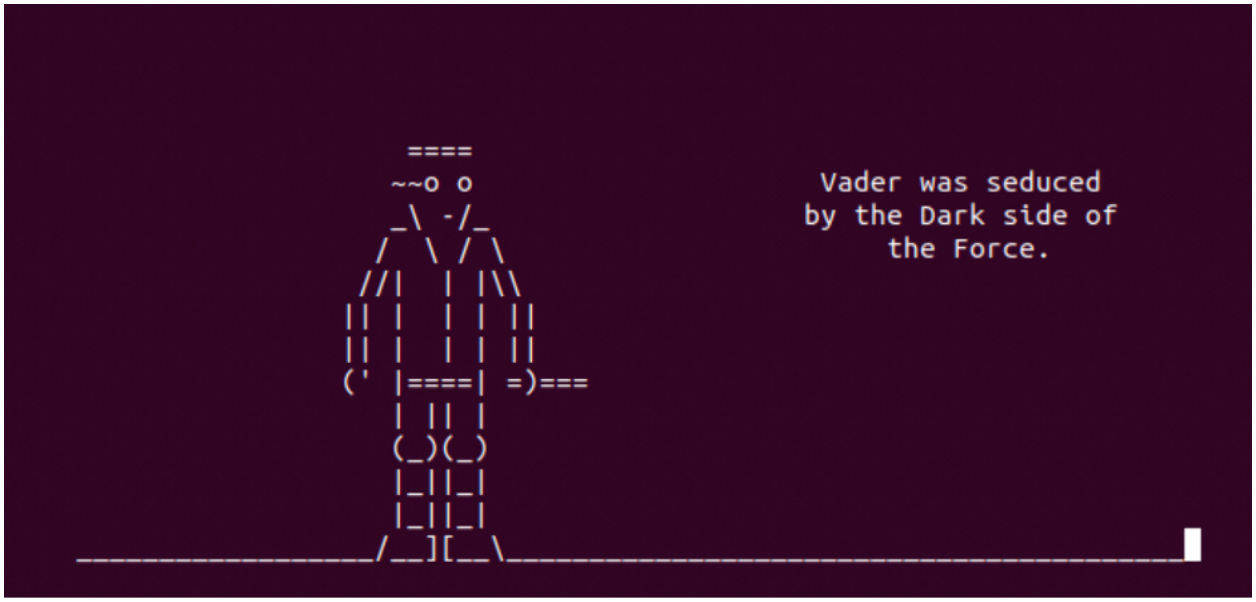
- To find the secret message Resistance left, I first used the command **nslookup -type=txt princessleia.site**. Results shown below:

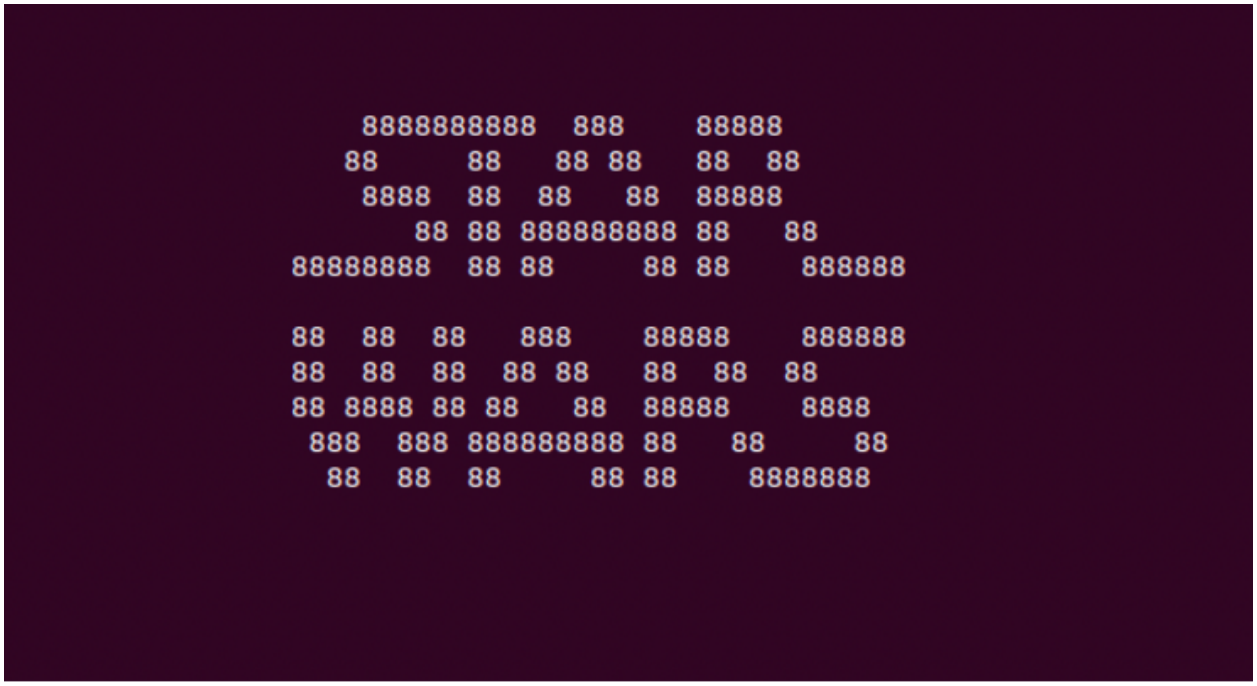
```
sysadmin@UbuntuDesktop:~$ nslookup -type=txt princessleia.site
Server:         8.8.8.8
Address:        8.8.8.8#53

Non-authoritative answer:
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"

Authoritative answers can be found from:

sysadmin@UbuntuDesktop:~$
```

- The command **telnet towel.blinkenlights.nl** was followed by a note, along with some star wars animations. Results shown below:

```
   Original Work   : Simon Jansen ( http://www.asciimation.co.nz/ )
   Telnetification : Sten Spans ( sten@blinkenlights.nl )
   Terminal Tricks : Mike Edwards (pf-asciimation@mirkwood.net)

   The hard work was done by Simon and Mike,
   I just placed it online in a different format.

   So long And Thanks for all the fish

   Sten (I just need a Hug)
```




Vader was seduced
by the Dark side of
the Force.


8888888888 888 88888
88 88 88 88 88 88
8888 88 88 88 88888
88 88 888888888 88 88
88888888 88 88 88 88 888888
88 88 88 888 88888 888888
88 88 88 88 88 88 88 88 88
88 8888 88 88 88 88888 8888
888 888 888888888 88 88 88
88 88 88 88 88 8888888