

## Mission 1

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

```
Command Prompt
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\jonjk>nslookup -type=MX starwars.com
Server: cdns01.comcast.net
Address: 2001:558:feed::1

Non-authoritative answer:
starwars.com      MX preference = 5, mail exchanger = alt2.aspmx1.google.com
starwars.com      MX preference = 10, mail exchanger = aspmx2.googlemail.com
starwars.com      MX preference = 10, mail exchanger = aspmx3.googlemail.com
starwars.com      MX preference = 5, mail exchanger = alt1.aspmx1.google.com
starwars.com      MX preference = 1, mail exchanger = aspmx1.google.com

aspmx3.googlemail.com  internet address = 209.85.202.26
aspmx3.googlemail.com  AAAA IPv6 address = 2a00:1450:400b:c00::1b
aspmx2.googlemail.com  internet address = 64.233.186.27

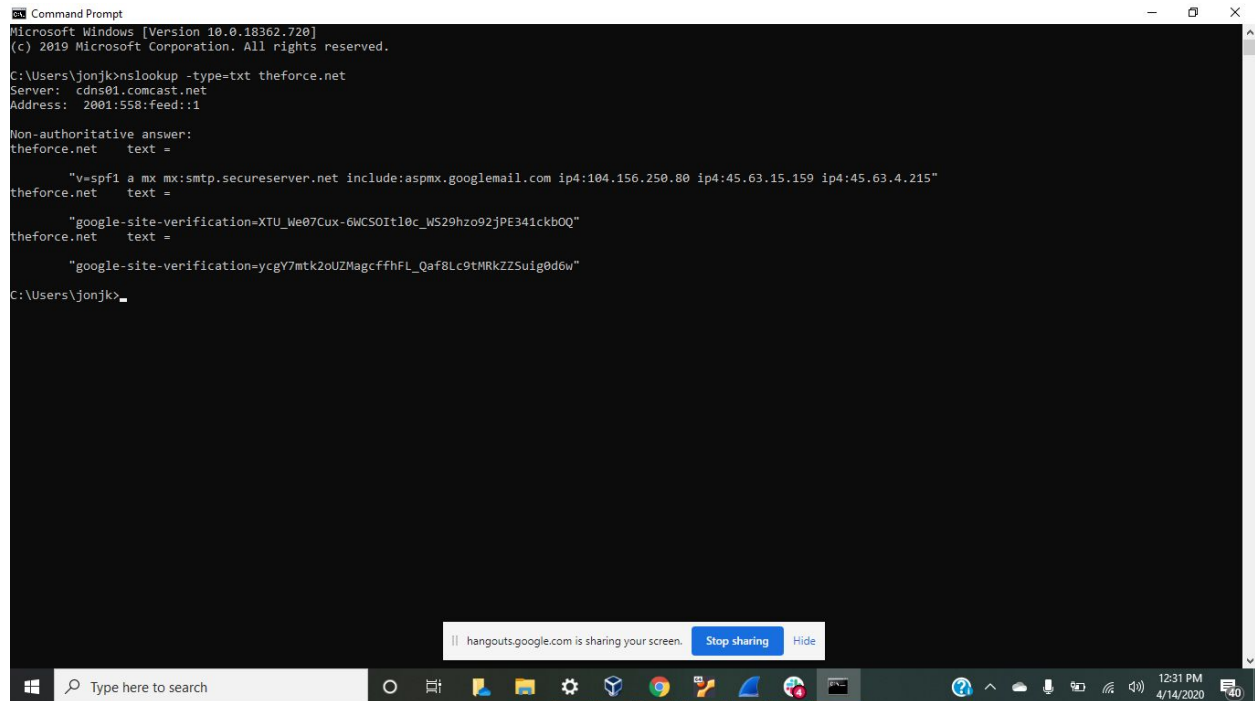
C:\Users\jonjk>
```

Explain why the Resistance isn't receiving any emails.

Document what a corrected DNS record should be.

## Mission 2

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



```
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\jonjk>nslookup -type=txt theforce.net
Server:  cdns01.comcast.net
Address:  2001:558:feed::1

Non-authoritative answer:
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"
theforce.net      text =
                "google-site-verification=XTU_We07Cux-6WCS0Itl0c_WS29hzo92jPE341ckbOQ"
theforce.net      text =
                "google-site-verification=ycgY7mtk2oUZMagcFFhFL_Qaf8Lc9tMRkZZSuig0d6w"

C:\Users\jonjk>
```

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

**The Force's emails are going to spam due to the address of the mail server being changed and not listed as a trusted address.**

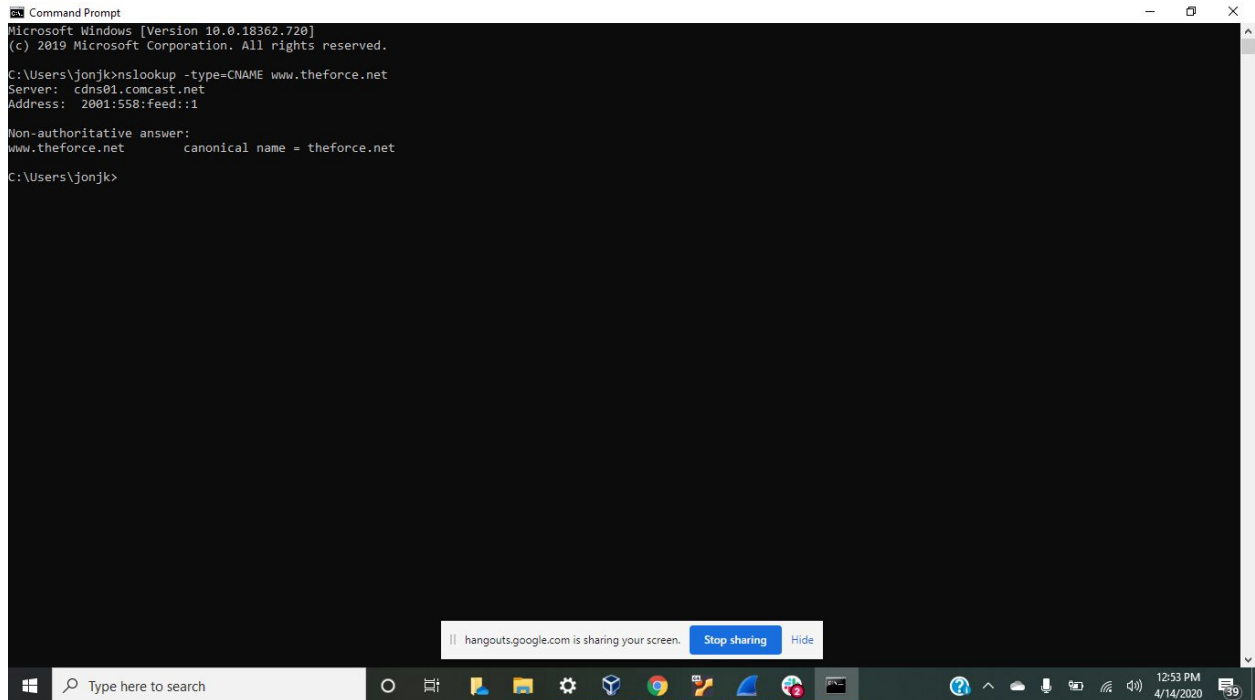
Document what a corrected DNS record should be.

**"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 ip4:45.23.176.21"**

**(Add address to list of trusted addresses)**

### Mission 3

Document how a CNAME should look by viewing the CNAME of [www.theforce.net](http://www.theforce.net) using NSLOOKUP.



```
Command Prompt
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\jonjk>nslookup -type=CNAME www.theforce.net
Server:      cdns01.comcast.net
Address:     2001:558:feed::1

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

C:\Users\jonjk>
```

Explain why the sub page of [resistance.theforce.net](http://resistance.theforce.net) isn't redirecting to [www.theforce.net](http://www.theforce.net).

**Resistance.theforce.net does not have a CNAME**

Document what a corrected DNS record should be.

**Resistance.theforce.net needs to be added to CNAME list:**

**Non-authoritative answer:**

**resistance.theforce.net      canonical name = theforce.net**

## Mission 4

Confirm the DNS records for princessleia.site.

```
Command Prompt
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\jonjk>nslookup -type=ns princessleia.site
Server: cdns01.comcast.net
Address: 2001:558:feed::1

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

ns25.domaincontrol.com internet address = 97.74.102.13
ns25.domaincontrol.com AAAA IPv6 address = 2603:5:2161::d
ns26.domaincontrol.com internet address = 173.201.70.13
ns26.domaincontrol.com AAAA IPv6 address = 2603:5:2261::d

C:\Users\jonjk>
```

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

**Add: ns2galaxybackup.com to authoritative users**

## Mission 5

Document this 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-Jedha=23** (The answer the **AWESOME** curriculum gave you)

**\*According to a tutor**

**Battuu-D-O-R-Q-T-V-Jedha=22** (THE CORRECT ANSWER)

## Mission 6

2-Homework\_09-Networking-Fundamentals-II-and-CTF-Review\_resources\_Darkside.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

arp

No.	Source	Protocol	Length	Encapsulation type	Sender MAC address	Address	Target MAC address
312	IntelCor_55:98:ef	ARP	80	IEEE 802.11...	00:13:ce:55:98:ef		00:00:00:00:00:00
314	IntelCor_55:98:ef	ARP	98	IEEE 802.11...	00:13:ce:55:98:ef		00:00:00:00:00:00
315	Cisco-Li_e3:e4:01	ARP	98	IEEE 802.11...	00:0f:66:e3:e4:01		00:13:ce:55:98:ef

Hardware type: Ethernet (1)  
Protocol type: IPv4 (0x0800)  
Hardware size: 6  
Protocol size: 4  
Opcode: request (1)  
Sender MAC address: IntelCor\_55:98:ef (00:13:ce:55:98:ef)  
Sender IP address: 172.16.0.101 (172.16.0.101)  
Target MAC address: 00:00:00:00:00:00 (00:00:00:00:00:00)  
Target IP address: 172.16.0.1 (172.16.0.1)

Time delta from previous displayed frame (frame.time\_delta\_displayed) | Packets: 586 · Displayed: 3 (0.5%) | Profile: Default

Type here to search

2-Homework\_09-Networking-Fundamentals-II-and-CTF-Review\_resources\_Darkside.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

arp

No.	Source	Protocol	Length	Encapsulation type	Sender MAC address	Address	Target MAC address
312	IntelCor_55:98:ef	ARP	80	IEEE 802.11...	00:13:ce:55:98:ef		00:00:00:00:00:00
314	IntelCor_55:98:ef	ARP	98	IEEE 802.11...	00:13:ce:55:98:ef		00:00:00:00:00:00
315	Cisco-Li_e3:e4:01	ARP	98	IEEE 802.11...	00:0f:66:e3:e4:01		00:13:ce:55:98:ef

Hardware type: Ethernet (1)  
Protocol type: IPv4 (0x0800)  
Hardware size: 6  
Protocol size: 4  
Opcode: reply (2)  
Sender MAC address: Cisco-Li\_e3:e4:01 (00:0f:66:e3:e4:01)  
Sender IP address: 172.16.0.1 (172.16.0.1)  
Target MAC address: IntelCor\_55:98:ef (00:13:ce:55:98:ef)  
Target IP address: 172.16.0.101 (172.16.0.101)

Time delta from previous displayed frame (frame.time\_delta\_displayed) | Packets: 586 · Displayed: 3 (0.5%) | Profile: Default

Type here to search

## Mission 7

