Mubariz Saeed CSF 432 - Lab#13 Fall 2021

Lab 13: Traceroute and DNS Zone Transfer Attack using Dig

Part 1: Traceroute

? Question 1 - Submit a screenshot of your output.

? Question 2 - How many hops did it take to reach a google web server?

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!? Question 3 - Assume you force all of your machine traffic to pass through a VPN concentrator that is located in Japan. How do you think this would affect the latency (ms times) shown in this traceroute report?

It would slow down the latency

? Question 4 - What does a packets TTL mean?

```
Time-to-live (TTL)
```

!? Question 5 - Write a traceroute command that uses strictly uses IPv4 addresses, ICMP echos for probes, runs through your default gateway interface (not IP address, interface name), and is un-fragmented.

```
File Actions Edit View Help

default via 172.20.0.1 dev eth0 proto dhcp src 172.20.85.65 metric 100

(mubarizsaeed® csf432student)-[~]

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sudo traceroute -g 172.20.0.1 google.com

traceroute to google.com (142.250.81.238), 30 hops max, 72 byte packets

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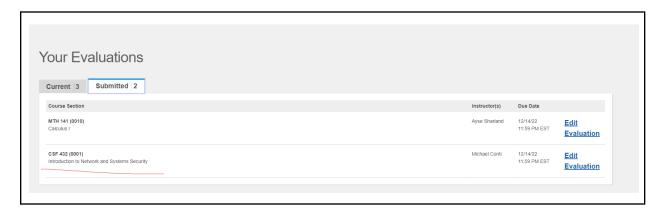
Part 2: DNS Zone Transfer

!? Question 6. Submit a screenshot of your badge demonstrating the completion of this immersive lab module.



Part 3: Course Feedback

!? Question 7. Submit a screenshot confirming that you have submitted your Course Feedback report



Part 4: Submission

Convert your network document into a .PDF and upload a single <code>lastname_lab13.pdf</code> file to Brightspace through the attachment uploads option.