**Unit 3- Network Scanning Exercise**

How many hops from your machine to your assigned website?

The traceroute command “traceroute + “IP address” allows a maximum of 64 hops. With my local router being the first hop, the scan started losing packets and looping in the same IP address on the eleventh hop. Following this, I stopped running the command.

Text

Description automatically generated

Which step causes the biggest delay in the route? What is the average duration of that delay?

The biggest latency was recorded to the final target. This could be a result of an active firewall blocking requests or a slow internet connection at the target. The average delay was 120 ms.

What are the main nameservers for the website?

**175.2.209.18.in-addr.arpa** and **ec2-18-209—2-175.compute-1.amazonaws.com**

Text

Description automatically generated

What is the MX record for the website?

I do not have the MX records of the target website, and since the server is down, I performed an MX scan against google.com in order to show the way we can obtain the MX records.

Text

Description automatically generated

Where is the website hosted?

The website is hosted in Northern Virginia, US.

**Issues with the scans:**

When we first received the target server, the IP address provided was wrong. I was running the ping command, but it was resulting in timeout errors.

Text

Description automatically generated

In order to overcome the error, I run the “ping” command again, but I used the domain name rather than its IP. As a result, the domain replied with its correct IP address.

Text, letter

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