Using the website(s) assigned to you in Unit 1, carry out the following exercises and answer the questions listed below. Ideally, you should complete this task before the next seminar, where it will be discussed further. Your findings/results from this exercise will be utilised specifically for the preparation of the 'Vulnerability Audit and Assessment - Results and Executive Summary' assessment in Unit 6.

Perform a basic scan using standard tools such as traceroute, dig and nslookup. Instructions on [using traceroute, etc can be found on this website](https://www.a2hosting.com/kb/getting-started-guide/internet-and-networking/troubleshooting-network-connectivity-with-ping-and-traceroute). Refer to this week's reading for further assistance. Do not use ping as it will cause confusion because of shared addresses.

Use these basic tools and make a list that details the following information:

1. How many hops from your machine to your assigned website?
2. Which step causes the biggest delay in the route? What is the average duration of that delay?
3. What are the main nameservers for the website?
4. Who is the registered contact?
5. What is the MX record for the website?
6. Where is the website hosted?

Website: https:loadedwithstuff.co.uk

1. How many hops from your machine to your assigned website?

Tracing route to loadedwithstuff.co.uk [68.66.247.187]

over a maximum of 30 hops:

1 1 ms 1 ms <1 ms GT-AX11000-AED0 [192.168.1.1]

2 1 ms 2 ms 1 ms 91.72.72.2

3 4 ms 4 ms 3 ms 10.100.137.77

4 4 ms 4 ms 3 ms 10.100.137.86

5 8 ms 10 ms 7 ms 10.141.79.5

6 7 ms 7 ms 7 ms 10.141.79.5

7 90 ms 90 ms 90 ms 195.22.197.54

8 123 ms 124 ms 124 ms ae6.francoforte34.fra.seabone.net [195.22.196.137]

9 191 ms 191 ms 191 ms ffm-b5-link.ip.twelve99.net [62.115.149.0]

10 183 ms 183 ms 182 ms ffm-bb2-link.ip.twelve99.net [62.115.114.90]

11 130 ms 131 ms 130 ms adm-bb4-link.ip.twelve99.net [62.115.122.200]

12 196 ms 196 ms 196 ms adm-b10-link.ip.twelve99.net [62.115.120.229]

13 200 ms 200 ms 218 ms a2hosting-svc080530-ic370345.ip.twelve99-cust.net [62.115.145.217]

14 191 ms 191 ms 191 ms v401.NL1-C2-040101\_0209-38.a2webhosting.com [209.124.94.237]

15 195 ms 195 ms 195 ms 68.66.247.187.static.a2webhosting.com [68.66.247.187]

Total of 15 hops

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

Hope 8 to 9 was the biggest delay of 68ms

3. What are the main nameservers for the website?

NS Records :

[0] Name : loadedwithstuff.co.uk | value: ns2.a2hosting.com. | ttl: 21600

[1] Name : loadedwithstuff.co.uk | value: ns1.a2hosting.com. | ttl: 21600

[2] Name : loadedwithstuff.co.uk | value: ns4.a2hosting.com. | ttl: 21600

[3] Name : loadedwithstuff.co.uk | value: ns3.a2hosting.com. | ttl: 21600

4. Who is the registered contact?

Network: 68.66.212.0-68.66.255.255

Name: Network Operations

Email: abuse@a2hosting.com

Phone: +1-734-222-4678

Address: US, MI, Ann Arbor, P.O. Box 2998, 48106

Country: US

5. What is the MX record for the website?

mail.loadedwithstuff.co.uk.

6. Where is the website hosted?

<https://www.a2hosting.com/>

References:

Nmap network scanning: The Official Nmap Project Guide ... - researchgate (no date). Available at: https://www.researchgate.net/publication/234829346\_Nmap\_Network\_Scanning\_The\_Official\_Nmap\_Project\_Guide\_to\_Network\_Discovery\_and\_Security\_Scanning (Accessed: February 25, 2023).