Bennett Hamilton

Prof. Brian Hall

CS 372 – Intro to Networking

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Project 9: Digging DNS Info

* What’s the IP address of microsoft.com?

From what I found online, because Microsoft.com is a large website, it receives multiple IP addresses. This is known as DNS Round Robin and is used to help distribute network traffic. Here’s a list of Microsoft’s IP addresses assigned to that domain: 20.112.250.133, 20.70.246.20, 20.236.44.162, 20.231.239.246, and 20.76.201.171.

* What’s the mail exchange for google.com?

google.com. 300 IN MX 10 smtp.google.com.

* What are the name servers for duckduckgo.com?

duckduckgo.com. 86400 IN NS ns03.quack-dns.com.

duckduckgo.com. 86400 IN NS ns02.quack-dns.com.

duckduckgo.com. 86400 IN NS dns1.p05.nsone.net.

duckduckgo.com. 86400 IN NS dns3.p05.nsone.net.

duckduckgo.com. 86400 IN NS ns01.quack-dns.com.

duckduckgo.com. 86400 IN NS ns04.quack-dns.com.

duckduckgo.com. 86400 IN NS dns4.p05.nsone.net.

duckduckgo.com. 86400 IN NS dns2.p05.nsone.net.

* Following the process in the Digging from a Root Name Server in the section above, start with a root name server and dig your way down to www.yahoo.com (**NOT** yahoo.com).

Note that this ends in a CNAME record! You’ll have to repeat the process with the alias named by the CNAME record starting from the root servers again.

Add to your document the dig commands you used to get the IP address. Each dig command should be @ a different name server, starting with the root.

dig @a.root-servers.net [www.yahoo.com](http://www.yahoo.com)

dig @a.gtld-servers.net [www.yahoo.com](http://www.yahoo.com)

dig @ns1.yahoo.com [www.yahoo.com](http://www.yahoo.com)

CNAME me-ycpi-cf-www.g06.yahoodns.net.

dig @a.root-servers.net me-ycpi-cf-www.g06.yahoodns.net

dig @a.gtld-servers.net me-ycpi-cf-www.g06.yahoodns.net

dig @ns1.yahoo.com me-ycpi-cf-www.g06.yahoodns.net

dig @yf4.a1.b.yahoo.net me-ycpi-cf-www.g06.yahoodns.net

me-ycpi-cf-www.g06.yahoodns.net. 60 IN A 69.147.80.15

me-ycpi-cf-www.g06.yahoodns.net. 60 IN A 74.6.160.107

me-ycpi-cf-www.g06.yahoodns.net. 60 IN A 69.147.80.12

me-ycpi-cf-www.g06.yahoodns.net. 60 IN A 74.6.160.106

(more “DNS Round Robin”)