1. IP address 192.168.1.32

2. Last login: Thu Jan 12 16:56:49 on ttys000

Thomas-MacBook-Air:~ montywong$ ping 192.168.1.38

PING 192.168.1.38 (192.168.1.38): 56 data bytes

64 bytes from 192.168.1.38: icmp\_seq=0 ttl=64 time=311.512 ms

64 bytes from 192.168.1.38: icmp\_seq=1 ttl=64 time=23.923 ms

64 bytes from 192.168.1.38: icmp\_seq=2 ttl=64 time=43.645 ms

64 bytes from 192.168.1.38: icmp\_seq=3 ttl=64 time=63.754 ms

64 bytes from 192.168.1.38: icmp\_seq=4 ttl=64 time=83.824 ms

64 bytes from 192.168.1.38: icmp\_seq=5 ttl=64 time=102.769 ms

64 bytes from 192.168.1.38: icmp\_seq=6 ttl=64 time=20.559 ms

64 bytes from 192.168.1.38: icmp\_seq=7 ttl=64 time=41.227 ms

Request timeout for icmp\_seq 8

Request timeout for icmp\_seq 9

Request timeout for icmp\_seq 10

Request timeout for icmp\_seq 11

Request timeout for icmp\_seq 12

Request timeout for icmp\_seq 13

Request timeout for icmp\_seq 14

64 bytes from 192.168.1.38: icmp\_seq=15 ttl=64 time=4.273 ms

64 bytes from 192.168.1.38: icmp\_seq=16 ttl=64 time=5.363 ms

3. Thomas-MacBook-Air:~ montywong$ nslookup google.com

Server: 209.222.18.222

Address: 209.222.18.222#53

Non-authoritative answer:

Name: google.com

Address: 172.217.5.78

Thomas-MacBook-Air:~ montywong$ nslookup reddit.com

Server: 209.222.18.222

Address: 209.222.18.222#53

Non-authoritative answer:

Name: reddit.com

Address: 151.101.193.140

Name: reddit.com

Address: 151.101.129.140

Name: reddit.com

Address: 151.101.1.140

Name: reddit.com

Address: 151.101.65.140

4. Thomas-MacBook-Air:~ montywong$ traceroute google.com

traceroute to google.com (172.217.5.78), 64 hops max, 52 byte packets

1 10.48.10.1 (10.48.10.1) 82.416 ms 91.476 ms 80.345 ms

2 host.my-tss.com (198.8.80.1) 79.624 ms 80.161 ms 80.526 ms

3 107.152.98.44 (107.152.98.44) 86.192 ms 80.630 ms

104.200.152.56 (104.200.152.56) 83.129 ms

4 google.as15169.any2ix.coresite.com (206.72.210.41) 85.208 ms 81.164 ms 80.831 ms

5 209.85.245.247 (209.85.245.247) 82.774 ms

209.85.245.193 (209.85.245.193) 80.890 ms

google.as15169.any2ix.coresite.com (206.72.210.41) 82.348 ms

6 209.85.245.193 (209.85.245.193) 81.426 ms

209.85.245.247 (209.85.245.247) 84.336 ms

108.170.237.115 (108.170.237.115) 85.672 ms

7 lax17s15-in-f14.1e100.net (172.217.5.78) 82.409 ms 82.445 ms

108.170.237.115 (108.170.237.115) 79.952 ms

7 hops for google.com

Thomas-MacBook-Air:~ montywong$ traceroute reddit.com

traceroute: Warning: reddit.com has multiple addresses; using 151.101.1.140

traceroute to reddit.com (151.101.1.140), 64 hops max, 52 byte packets

1 10.48.10.1 (10.48.10.1) 81.910 ms 82.607 ms 80.499 ms

2 host.my-tss.com (198.8.80.1) 79.339 ms 79.219 ms 82.168 ms

3 107.152.98.44 (107.152.98.44) 148.828 ms 132.467 ms

104.200.152.56 (104.200.152.56) 84.371 ms

4 xe-4-3.edge-aa.lax01.coloat.com (206.220.175.17) 81.945 ms

te0-0-1-2.nr11.b002695-2.lax04.atlas.cogentco.com (38.88.196.165) 83.205 ms 84.261 ms

5 te0-0-1-2.nr11.b002695-2.lax04.atlas.cogentco.com (38.88.196.165) 81.215 ms 83.385 ms 85.818 ms

6 te0-9-0-30.ccr41.lax04.atlas.cogentco.com (154.54.45.121) 88.435 ms

te0-0-2-2.agr12.lax04.atlas.cogentco.com (154.24.29.93) 83.547 ms

te0-9-0-30.ccr41.lax04.atlas.cogentco.com (154.54.45.121) 83.867 ms

7 be2964.ccr21.lax01.atlas.cogentco.com (154.54.44.77) 82.221 ms 82.658 ms

be2965.ccr22.lax01.atlas.cogentco.com (154.54.45.1) 86.466 ms

8 be2964.ccr21.lax01.atlas.cogentco.com (154.54.44.77) 92.573 ms

be3033.ccr41.lax05.atlas.cogentco.com (154.54.26.42) 82.451 ms

be2965.ccr22.lax01.atlas.cogentco.com (154.54.45.1) 84.957 ms

9 be3032.ccr41.lax05.atlas.cogentco.com (154.54.31.54) 82.393 ms \* 85.389 ms

10 \* \* \*

^C

undefined hops… multiple addresses

5. Can you think of potential problems if two devices were to have the same IP address on a network?

There is a conflict and one of the ip devices will not be able to talk to the AP

6.

DNS is like a phonebook because it takes the text you type into the address bar and looks up the ip address associated with it.