

Lab09 – 1

```
E94111059@raspberrypi:~ $ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=54 time=53.8 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=54 time=43.6 ms
^C
--- 8.8.8.8 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 43.636/48.732/53.828/5.096 ms
E94111059@raspberrypi:~ $ nslookup apple.com
Server:      172.20.10.1
Address:     172.20.10.1#53

Non-authoritative answer:
Name:   apple.com
Address: 17.253.144.10
Name:   apple.com
Address: 2620:149:af0::10

E94111059@raspberrypi:~ $ traceroute apple.com
traceroute to apple.com (17.253.144.10), 30 hops max, 60 byte packets
 1  172.20.10.1 (172.20.10.1)  3.056 ms  3.253 ms  3.140 ms
 2  10.159.65.134 (10.159.65.134)  194.603 ms  194.776 ms  194.691 ms
 3  10.159.65.45 (10.159.65.45)  48.388 ms  10.159.65.41 (10.159.65.41)  48.685 ms  48.541 ms
 4  10.159.71.34 (10.159.71.34)  48.526 ms  49.002 ms  48.264 ms
 5  210-65-126-198.hinet-ip.hinet.net (210.65.126.198)  52.058 ms  52.253 ms  52.183 ms
 6  * * *
 7  * * *
 8  220-128-13-65.hinet-ip.hinet.net (220.128.13.65)  36.911 ms  220-128-13-237.hinet-ip.hinet.net (220.128.13.237)  48.978 ms  220-128-13-85.hinet-ip.hinet.net (220.128.13.85)  47.601 ms
 9  211-22-229-109.hinet-ip.hinet.net (211.22.229.109)  47.371 ms  211-22-229-105.hinet-ip.hinet.net (211.22.229.105)  43.808 ms  211-22-229-109.hinet-ip.hinet.net (211.22.229.109)  43.701 ms
10  ae3.edge2.Banqiao.idc.hinet.net (203.69.110.113)  45.011 ms  ae3.edge1.Banqiao.idc.hinet.net (203.69.110.49)  41.085 ms  30.502 ms
11 guide.apple.com (17.253.144.10)  30.161 ms !X 29.828 ms !X 41.545 ms !X
```

Lab09 – 2 – 1



```
Last login: Tue Nov 29 21:51:53 on ttys001
KendelldeMacBook-Air .ssh % ping 8.8.8.8

PING 8.8.8.8 (8.8.8.8): 56 data bytes
64 bytes from 8.8.8.8: icmp_seq=0 ttl=113 time=12.610 ms
64 bytes from 8.8.8.8: icmp_seq=1 ttl=113 time=13.902 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=113 time=17.214 ms
^C
--- 8.8.8.8 ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 12.610/14.575/17.214/1.939 ms
KendelldeMacBook-Air .ssh %
```

2-3



2-4

Static leases

Clients with a particular hardware MAC address can always be allocated the same IP address. This option adds `dhcp-host` entries to the dnsmasq configuration.

50:ed:3c:43:8b:a6

10.3.141.135

KendellAir



2-5

```
candle@KendelldeMacBook-Air .ssh % traceroute google.com
traceroute to google.com (172.217.160.110), 64 hops max, 52 byte packets
 1  10.3.141.1 (10.3.141.1)  3.666 ms  26.283 ms  5.050 ms
 2  mcas_router (192.168.1.1)  7.335 ms  4.061 ms  4.416 ms
 3  140.116.179.253 (140.116.179.253)  5.971 ms  5.128 ms  12.061 ms
 4  140.116.243.93 (140.116.243.93)  4.117 ms  5.113 ms  42.105 ms
 5  140.116.243.177 (140.116.243.177)  6.097 ms  6.068 ms  5.087 ms
 6  192.192.61.146 (192.192.61.146)  7.184 ms  6.689 ms  5.508 ms
c 7  192.192.61.32 (192.192.61.32)  101.245 ms  31.714 ms
   192.192.61.24 (192.192.61.24)  11.142 ms
 8  192.192.61.188 (192.192.61.188)  14.188 ms
   192.192.61.184 (192.192.61.184)  35.157 ms  10.681 ms
 9  192.192.61.203 (192.192.61.203)  11.176 ms  11.711 ms  11.227 ms
10  72.14.202.60 (72.14.202.60)  10.074 ms  16.542 ms  12.905 ms
11  * * *
12  209.85.242.124 (209.85.242.124)  12.424 ms
   tsd03s06-in-f14.1e100.net (172.217.160.110)  12.116 ms
   108.170.244.65 (108.170.244.65)  31.821 ms
```


10:14



< Settings

Wi-Fi

Edit

Wi-Fi



✓ Candlepi



MY NETWORKS

NCKU-WiFi(2.4G)



NETWORKS

41112
DSCT-LAB
eduroam
esap104
liyu_rasp
MCAS
MCAS_Lab
raspi-tt
Siowilliam
walker
Other...



Ask to Join Networks

Off >

Known networks will be joined automatically. If no known networks are available, you will have to manually select a network.