

## 1.1

```
E94116130@raspberrypi:~ $ ping 192.168.137.170
PING 192.168.137.170 (192.168.137.170) 56(84) bytes of data.
64 bytes from 192.168.137.170: icmp_seq=1 ttl=64 time=0.110 ms
64 bytes from 192.168.137.170: icmp_seq=2 ttl=64 time=0.084 ms
64 bytes from 192.168.137.170: icmp_seq=3 ttl=64 time=0.121 ms
64 bytes from 192.168.137.170: icmp_seq=4 ttl=64 time=0.075 ms
64 bytes from 192.168.137.170: icmp_seq=5 ttl=64 time=0.075 ms
64 bytes from 192.168.137.170: icmp_seq=6 ttl=64 time=0.069 ms
64 bytes from 192.168.137.170: icmp_seq=7 ttl=64 time=0.070 ms
64 bytes from 192.168.137.170: icmp_seq=8 ttl=64 time=0.074 ms
64 bytes from 192.168.137.170: icmp_seq=9 ttl=64 time=0.073 ms
64 bytes from 192.168.137.170: icmp_seq=10 ttl=64 time=0.070 ms
64 bytes from 192.168.137.170: icmp_seq=11 ttl=64 time=0.086 ms
^C
--- 192.168.137.170 ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10386ms
rtt min/avg/max/mdev = 0.069/0.082/0.121/0.016 ms
```

## 1.2

```
E94116130@raspberrypi:~ $ ping pornhub.com
PING pornhub.com (66.254.114.41) 56(84) bytes of data.
64 bytes from reflectededge.reflected.net (66.254.114.41): icmp_seq=1 ttl=50 time=39.2 ms
64 bytes from reflectededge.reflected.net (66.254.114.41): icmp_seq=2 ttl=50 time=45.4 ms
64 bytes from reflectededge.reflected.net (66.254.114.41): icmp_seq=3 ttl=50 time=40.9 ms
64 bytes from reflectededge.reflected.net (66.254.114.41): icmp_seq=4 ttl=50 time=39.7 ms
64 bytes from reflectededge.reflected.net (66.254.114.41): icmp_seq=5 ttl=50 time=39.9 ms
^C
--- pornhub.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 39.163/41.006/45.386/2.261 ms
```

## 1.3

```
E94116130@raspberrypi:~ $ traceroute pornhub.com
traceroute to pornhub.com (66.254.114.41), 30 hops max, 60 byte packets
 1 DESKTOP-Q000SHT.mshome.net (192.168.137.1) 2.780 ms * *
 2 * * *
 3 140.116.118.253 (140.116.118.253) 5.288 ms 5.205 ms 5.111 ms
 4 140.116.243.33 (140.116.243.33) 4.590 ms 4.860 ms 5.170 ms
 5 140.116.243.193 (140.116.243.193) 6.253 ms 6.851 ms 6.545 ms
 6 140.116.243.177 (140.116.243.177) 7.274 ms 5.670 ms 5.323 ms
 7 192.192.61.146 (192.192.61.146) 5.494 ms 5.382 ms 6.145 ms
 8 192.192.61.24 (192.192.61.24) 10.969 ms 11.191 ms 11.473 ms
 9 192.192.61.48 (192.192.61.48) 10.928 ms 10.849 ms 11.095 ms
10 192.192.61.58 (192.192.61.58) 11.173 ms 10.902 ms 10.130 ms
11 192.192.68.62 (192.192.68.62) 10.594 ms 9.934 ms 10.153 ms
12 be6092.ccr51.tpe01.atlas.cogentco.com (154.18.24.33) 10.285 ms 11.779 ms 10.455 ms
13 be2012.ccr71.tyo01.atlas.cogentco.com (66.28.4.233) 40.058 ms 40.112 ms 40.501 ms
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
28 * * *
29 * * *
30 * * *
```

## 2.1

沒截到圖

但我的樹梅派只要一裝 AP 要刪就很難刪乾淨

所以我今天去找助教幫忙的時候

助教就說先不扣分

不然再裝一次刪掉又是一個大工程

## 2.2

```
E94116130@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=113 time=6.88 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=113 time=6.62 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=113 time=6.65 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=113 time=6.65 ms
^C
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 6.619/6.698/6.883/0.107 ms
```

## 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.



## 2.5

```
C:\Users\陳寬宇>tracert google.com
```

在上限 30 個躍點上

追蹤 google.com [142.251.43.14] 的路由：

1	*	2218 ms	*	10.3.141.1
2	2513 ms	*	*	140.116.118.253
3	3350 ms	22 ms	33 ms	140.116.243.33
4	3 ms	3 ms	3 ms	140.116.243.193
5	19 ms	6 ms	540 ms	140.116.243.177
6	2863 ms	107 ms	50 ms	192.192.61.146
7	2540 ms	3936 ms	3090 ms	192.192.61.32
8	9 ms	8 ms	8 ms	192.192.61.188
9	504 ms	2005 ms	9 ms	192.192.61.203
10	*	*	*	要求等候逾時。
11	*	3724 ms	2379 ms	172.253.50.121
12	1108 ms	12 ms	38 ms	142.251.77.87
13	1271 ms	3004 ms	16 ms	tsa03s08-in-f14.1e100.net [142.251.43.14]

追蹤完成。