

IP LAB 5 Assignment

Wireshark Lab:DHCP

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AIM:Analyze DHCP using protocol analyzer

Tools: cmd with administrative privileges and wireshark

Questions:

1)ipconfig/release, ipconfig/renew, ipconfig/renew, ipconfig/release, ipconfig/renew

```
C:\Windows\System32>ipconfig/release

Windows IP Configuration

No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::928c:e82:4818:d6e7%8
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

```
C:\Windows\System32>ipconfig/renew

Windows IP Configuration

No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : 
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    Link-local IPv6 Address . . . . . : fe80::928c:e82:4818:d6e7%8
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

```
C:\Windows\System32>ipconfig/release

Windows IP Configuration

No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::928c:e82:4818:d6e7%8
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

```
C:\Windows\System32>ipconfig/renew

Windows IP Configuration

No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 2 while it has its media disconnected.

Ethernet adapter Ethernet 2:

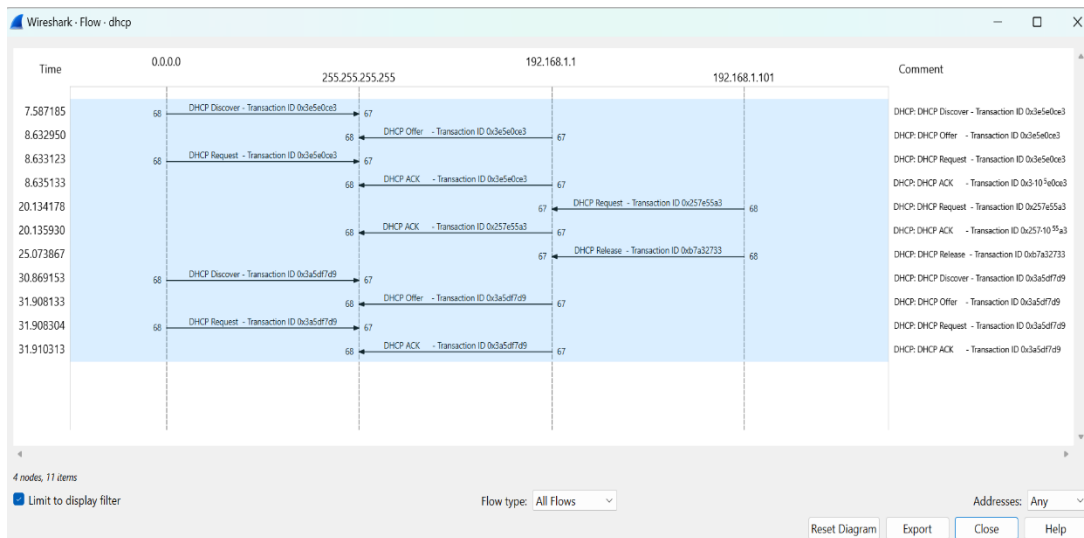
    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::928c:e82:4818:d6e7%8
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
21.02	192.168.251.49	192.168.251.101	DHCP	342	DHCP Request - Transaction ID 0xa10d171b	68	67
21.09	192.168.251.101	192.168.251.49	DHCP	352	DHCP ACK - Transaction ID 0xa10d171b	67	68
40.44	192.168.251.49	192.168.251.101	DHCP	342	DHCP Request - Transaction ID 0xac4d95d6	68	67
40.453587	192.168.251.49	192.168.251.101	DHCP	352	DHCP ACK - Transaction ID 0xac4d95d6	67	68
53.671362	192.168.251.101	192.168.251.49	DHCP	342	DHCP Release - Transaction ID 0x960bc083	68	67
67.847875	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3a0a191b	68	67
67.899430	192.168.251.49	192.168.251.101	DHCP	352	DHCP Offer - Transaction ID 0x3a0a191b	67	68
67.902743	0.0.0.0	255.255.255.255	DHCP	350	DHCP Request - Transaction ID 0x3a0a191b	68	67
67.912697	192.168.251.49	192.168.251.101	DHCP	352	DHCP ACK - Transaction ID 0x3a0a191b	67	68

2a) UDP is in Transport layer and DHCP messages are sent over UDP.

b) Source Port No is 67 and Destination Port No is 68

statistic→flow graph



c) Link Layer Address of the client is the MAC address of client

so it is Dell_4f:36:23

00:08:74:4f:36:23;00:08:74 :Dell and 4f:36:23 –Unique address

dhcp					
Time	Source	Destination	Protocol	Length	Info
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover -
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer -
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request -
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK -
20.134178	192.168.1.101	192.168.1.1	DHCP	342	DHCP Request -
20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK -
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release -
30.869153	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover -
31.908133	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer -
31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request -
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK -

Hardware address length: 6
Hops: 0
Transaction ID: 0x3e5e0ce3
Seconds elapsed: 0
> Bootp flags: 0x0000 (Unicast)
Client IP address: 0.0.0.0
Your (client) IP address: 0.0.0.0
Next server IP address: 0.0.0.0
Relay agent IP address: 0.0.0.0
Client MAC address: Dell_4f:36:23 (00:08:74:4f:36:23)
Client hardware address padding: 00000000000000000000
Server host name not given
Boot file name not given

d) Message Type and Server identifier are different in DHCP discover message and DHCP request message.

dhcp					
Time	Source	Destination	Protocol	Length	Info
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3
20.134178	192.168.1.101	192.168.1.1	DHCP	342	DHCP Request - Transaction ID 0x257e55a3
20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x257e55a3
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb7a32733
30.869153	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3a5df7d9
31.908133	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3a5df7d9
31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3a5df7d9
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3a5df7d9
<div> <div>Client hardware address padding: 000000000000000000</div> <div>Server host name not given</div> <div>Boot file name not given</div> <div>Magic cookie: DHCP</div> <div>Option: (53) DHCP Message Type (Discover)</div> <div>Length: 1</div> <div>DHCP: Discover (1)</div> </div> <div> <div>0040 00 00 00 00 00 00 00 00 00</div> <div>0050 00 00 00 00 00 00 00 00 00</div> <div>0060 00 00 00 00 00 00 00 00 00</div> <div>0070 00 00 00 00 00 00 00 00 00</div> <div>0080 00 00 00 00 00 00 00 00 00</div> <div>0090 00 00 00 00 00 00 00 00 00</div> <div>00a0 00 00 00 00 00 00 00 00 00</div> </div>					
dhcp					
Time	Source	Destination	Protocol	Length	Info
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3
20.134178	192.168.1.101	192.168.1.1	DHCP	342	DHCP Request - Transaction ID 0x257e55a3
20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x257e55a3
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb7a32733
30.869153	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3a5df7d9
31.908133	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3a5df7d9
31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3a5df7d9
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3a5df7d9
<div> <div>Client MAC address: Dell_4f:36:23 (00:08:74:4f:36:23)</div> <div>Client hardware address padding: 000000000000000000</div> <div>Server host name not given</div> <div>Boot file name not given</div> <div>Magic cookie: DHCP</div> <div>Option: (53) DHCP Message Type (Request)</div> <div>Length: 1</div> <div>DHCP: Request (3)</div> </div> <div> <div>0070 00 00 00 00 00 00 00 00 00</div> <div>0080 00 00 00 00 00 00 00 00 00</div> <div>0090 00 00 00 00 00 00 00 00 00</div> <div>00a0 00 00 00 00 00 00 00 00 00</div> <div>00b0 00 00 00 00 00 00 00 00 00</div> <div>00c0 00 00 00 00 00 00 00 00 00</div> <div>00d0 00 00 00 00 00 00 00 00 00</div> <div>00e0 00 00 00 00 00 00 00 00 00</div> </div>					

e)Total there 2 different set of Transaction ID

0X3e5e0ce3: (Discover/Offer/Request/ACK) DHCP messages

0X257e55a3: (Request/ACK) set of DHCP messages

Purpose of transaction ID?-To keep in track of the messages coming from the same device.

ngth	Info	Src code	Dst code
342	DHCP Discover - Transaction ID 0x3e5e0ce3	68	67
590	DHCP Offer - Transaction ID 0x3e5e0ce3	67	68
342	DHCP Request - Transaction ID 0x3e5e0ce3	68	67
590	DHCP ACK - Transaction ID 0x3e5e0ce3	67	68
342	DHCP Request - Transaction ID 0x257e55a3	68	67
590	DHCP ACK - Transaction ID 0x257e55a3	67	68

f)

Source IP	Destination IP
0.0.0.0	255.255.255.255
192.168.1.1	255.255.255.255
0.0.0.0	255.255.255.255
192.168.1.1	255.255.255.255

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3	68	67
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3	67	68
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3	68	67
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3	67	68

g) IP Address of the DHCP server is 192.168.1.1 ie the source IP address of DHCP offer message.

h) DHCP request message provides the IP address of the DHCP client address ie 192.168.1.101

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3	68	67
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3	67	68
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3	68	67
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3	67	68
20.134178	192.168.1.101	192.168.1.1	DHCP	342	DHCP Request - Transaction ID 0x257e55a3	68	67
20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x257e55a3	67	68
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb7a32733	68	67
30.869153	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3a5df7d9	68	67
31.908133	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3a5df7d9	67	68
31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3a5df7d9	68	67
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3a5df7d9	67	68

Dynamic Host Configuration Protocol (Request)		0030 55 a3 00 00 00 00 c0 a8 01 65 00 00 00 00 00 00 U-----e-----
Message type: Boot Request (1)		0040 00 00 00 00 00 00 00 74 4f 36 23 00 00 00 00t06#----
Hardware type: Ethernet (0x01)		0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Hardware address length: 6		0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Hops: 0		0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Transaction ID: 0x257e55a3		0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Seconds elapsed: 0		0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Bootp flags: 0x0000 (Unicast)		00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Client IP address: 192.168.1.101		00b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----

i) There is no relay agent because the IP address here is 0.0.0.0

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3	68	67
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3	67	68
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3	68	67
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3	67	68
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20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x257e55a3	67	68
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb7a32733	68	67
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31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3a5df7d9	68	67
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3a5df7d9	67	68

Bootp flags: 0x0000 (Unicast)		0040 00 00 00 00 00 00 00 74 4f 36 23 00 00 00 00t06#----
Client IP address: 0.0.0.0		0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Your (client) IP address: 0.0.0.0		0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Next server IP address: 0.0.0.0		0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Relay agent IP address: 0.0.0.0		0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Client MAC address: Dell_4f:36:23 (00:08:74:4f:36:23)		0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----
Client hardware address padding: 00000000000000000000		00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00t06#----

j) The router's IP address identifies the default internet gateway. The available subnet is defined by the subnet mask.

k) Yes, the client accepts the IP address provided by the DHCP server in the DHCP request message.

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
7.587185	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3e5e0ce3	68	67
8.632950	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3e5e0ce3	67	68
8.633123	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3e5e0ce3	68	67
8.635133	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3e5e0ce3	67	68
20.134178	192.168.1.101	192.168.1.1	DHCP	342	DHCP Request - Transaction ID 0x257e5a5a3	68	67
20.135930	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x257e5a5a3	67	68
25.073867	192.168.1.101	192.168.1.1	DHCP	342	DHCP Release - Transaction ID 0xb7a32733	68	67
30.869153	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x3a5df7d9	68	67
31.908133	192.168.1.1	255.255.255.255	DHCP	590	DHCP Offer - Transaction ID 0x3a5df7d9	67	68
31.908304	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transaction ID 0x3a5df7d9	68	67
31.910313	192.168.1.1	255.255.255.255	DHCP	590	DHCP ACK - Transaction ID 0x3a5df7d9	67	68

Bootp flags: 0x0000 (Unicast)			
Client IP address: 0.0.0.0	0050	00 00 00 00 00 00 00 00	74 f4 36 23 00 00 00 00
Your (client) IP address: 0.0.0.0	0060	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00
Next server IP address: 0.0.0.0	0070	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00
Relay agent IP address: 0.0.0.0	0080	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00
Client MAC address: Dell 44:36:23 (00:08:74:4f:36:23)	0090	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00
Client hardware address padding: 00000000000000000000	00a0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00

I) The purpose of a lease is to limit the length of time that a client can use an IP address.

Lease time is 1 hour in DHCP offer message and DHCP ACK message, lease time is decided by the DHCP server.

dhcp										Src code	Dst code
Time	Source	Destination	Protocol	Length	Info						
13.049270	0.0.0.0	255.255.255.255	DHCP	344	DHCP Discover - Transaction ID 0x4fe8631e					67	67
13.050693	172.17.18.2	172.17.136.155	DHCP	361	DHCP Offer - Transaction ID 0x4fe8631e					68	68
13.050972	0.0.0.0	255.255.255.255	DHCP	370	DHCP Request - Transaction ID 0x4fe8631e					67	67
13.053992	172.17.18.2	172.17.136.155	DHCP	361	DHCP Offer - Transaction ID 0x4fe8631e					67	68
13.054713	172.17.18.2	172.17.136.155	DHCP	366	DHCP ACK - Transaction ID 0x4fe8631e					67	68
23.088471	172.17.136.155	172.17.18.2	DHCP	358	DHCP Request - Transaction ID 0xb40c1dbd					68	67
23.089043	172.17.18.2	172.17.136.155	DHCP	366	DHCP ACK - Transaction ID 0xb40c1dbd					67	68
35.288775	172.17.136.155	172.17.18.2	DHCP	342	DHCP Release - Transaction ID 0x315ba527					68	67
39.696446	0.0.0.0	255.255.255.255	DHCP	344	DHCP Discover - Transaction ID 0x90d515fc					68	67
39.701822	172.17.18.2	172.17.136.155	DHCP	361	DHCP Offer - Transaction ID 0x90d515fc					67	68
39.701822	172.17.18.2	172.17.136.155	DHCP	361	DHCP Offer - Transaction ID 0x90d515fc					67	68
39.702252	0.0.0.0	255.255.255.255	DHCP	370	DHCP Request - Transaction ID 0x90d515fc					68	67
39.703576	172.17.18.2	172.17.136.155	DHCP	366	DHCP ACK - Transaction ID 0x90d515fc					67	68
39.705051	172.17.18.2	172.17.136.155	DHCP	366	DHCP ACK - Transaction ID 0x90d515fc					67	68
Renewal Time Value: (1800s) 30 minutes											
Option: (59) Rebinding Time Value											
Length: 4											
Rebinding Time Value: (3150s) 52 minutes, 30 seconds											
Option: (51) IP Address Lease Time											
Length: 4											
IP Address Lease Time: (3600s) 1 hour											

m) If the DHCP release message is lost, since there is no verification for DHCP release message sent by client there will be no DHCP ACK for the same.

First the server will wait till lease time expires in the system, until then the client will have the same IP Address.

n) The purpose of ARP: it is checking what all IP address are configured so that it can assign the unused IP address for DHCP client.

Time	Source	Destination	Protocol	Length	Info	Src code	Dst code
7.588881	LinksysG_da:a...	Broadcast	ARP	60	Who has 192.168.1.101? Tell 192.168.1.1		
8.638148	Dell_4f:36:23	Broadcast	ARP	42	ARP Announcement for 192.168.1.101		
9.285757	Dell_4f:36:23	Broadcast	ARP	42	ARP Announcement for 192.168.1.101		
10.285814	Dell_4f:36:23	Broadcast	ARP	42	ARP Announcement for 192.168.1.101		
11.311090	LinksysG_da:a...	Broadcast	ARP	60	Who has 192.168.1.101? Tell 192.168.1.1		
11.311102	Dell_4f:36:23	LinksysG_da:af...	ARP	42	192.168.1.101 is at 00:08:74:4f:36:23		
16.130580	Dell_4f:36:23	Broadcast	ARP	42	Who has 192.168.1.117? Tell 192.168.1.101		
16.131598	Hp-UxE90_0d:c...	Dell_4f:36:23	ARP	60	192.168.1.117 is at 00:10:83:0d:c8:06		
30.870874	LinksysG_da:a...	Broadcast	ARP	60	Who has 192.168.1.101? Tell 192.168.1.1		
31.912478	Dell_4f:36:23	Broadcast	ARP	42	ARP Announcement for 192.168.1.101		
32.286862	Dell_4f:36:23	Broadcast	ARP	42	ARP Announcement for 192.168.1.101		