IT304 Computer Networks

LAB 6 Understanding of DHCP using wireshark and packet tracer

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1. Experiment:-

1. Begin by opening the Windows Command Prompt application (which can be found in your Accessories folder). Enter “ipconfig /release”. The executable for ipconfig is in C/windows/system32. This command releases your current IP address, so that your host’s IP address becomes 0.0.0.0.

2. Start up the Wireshark packet sniffer, as described in the introductory Wireshark lab and begin Wireshark packet capture.

3. Now go back to the Windows Command Prompt and enter “ipconfig /renew”. This instructs your host to obtain a network configuration, including a new IP address.

4. Wait until the “ipconfig /renew” has terminated. Then enter the same command “ipconfig /renew” again.

5. When the second “ipconfig /renew” terminates, enter the command “ipconfig/release” to release the previously-allocated IP address to your computer.

6. Finally, enter “ipconfig /renew” to again be allocated an IP address for your computer.

7. Stop Wireshark packet capture.

```
C:\Users\DELL>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.
No operation can be performed on Bluetooth Network Connection while it has its media disconnected.
No operation can be performed on Ethernet while it has its media disconnected.

Ethernet adapter VirtualBox Host-Only Network:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::8ade:59a5:ba69:2601%12
   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  . :

Wireless LAN adapter Local Area Connection* 2:

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

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   IPv6 Address. . . . . . . . . . . : 2409:40c1:102d:5a9a:4cae:1163:5d77:d3de
   Temporary IPv6 Address. . . . . . : 2409:40c1:102d:5a9a:8c08:bdc9:e82d:df8d
   Link-local IPv6 Address . . . . . : fe80::6597:4897:9dd2:2556%7
   Default Gateway . . . . . . . . . : fe80::9473:a6ff:fee8:f77%7

Ethernet adapter Bluetooth Network Connection:

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

```
Ethernet adapter Ethernet:

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

C:\Users\DELL>ipconfig /renew

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

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   Link-local IPv6 Address . . . . . : fe80::6597:4897:9dd2:2556%7
   IPv4 Address. . . . . . . . . . . : 192.168.193.128
```

```
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : fe80::9473:a6ff:fee8:f77%7
                                       192.168.193.212

Ethernet adapter Bluetooth Network Connection:

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

Ethernet adapter Ethernet:

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

C:\Users\DELL>ipconfig /renew

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```

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   Link-local IPv6 Address . . . . . : fe80::6597:4897:9dd2:2556%7
   IPv4 Address. . . . . . . . . . . : 192.168.193.128
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : fe80::9473:a6ff:fee8:f77%7
                                       192.168.193.212

Ethernet adapter Bluetooth Network Connection:

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

Ethernet adapter Ethernet:

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

C:\Users\DELL>ipconfig/release

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   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Local Area Connection* 1:
```

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

Wireless LAN adapter Local Area Connection* 2:

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

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
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Ethernet adapter Bluetooth Network Connection:

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

Ethernet adapter Ethernet:

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

C:\Users\DELL>ipconfig /renew

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   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

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   Connection-specific DNS Suffix  . :

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Wireless LAN adapter Wi-Fi:

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   Default Gateway . . . . . . . . . : fe80::9473:a6ff:fee8:f77%7
                                       192.168.193.212

Ethernet adapter Bluetooth Network Connection:

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

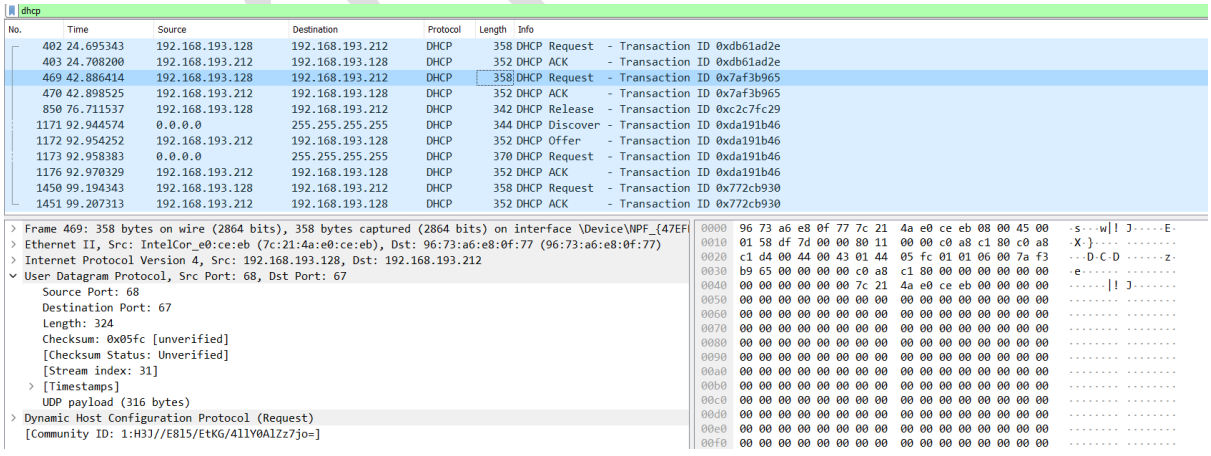
Ethernet adapter Ethernet:

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

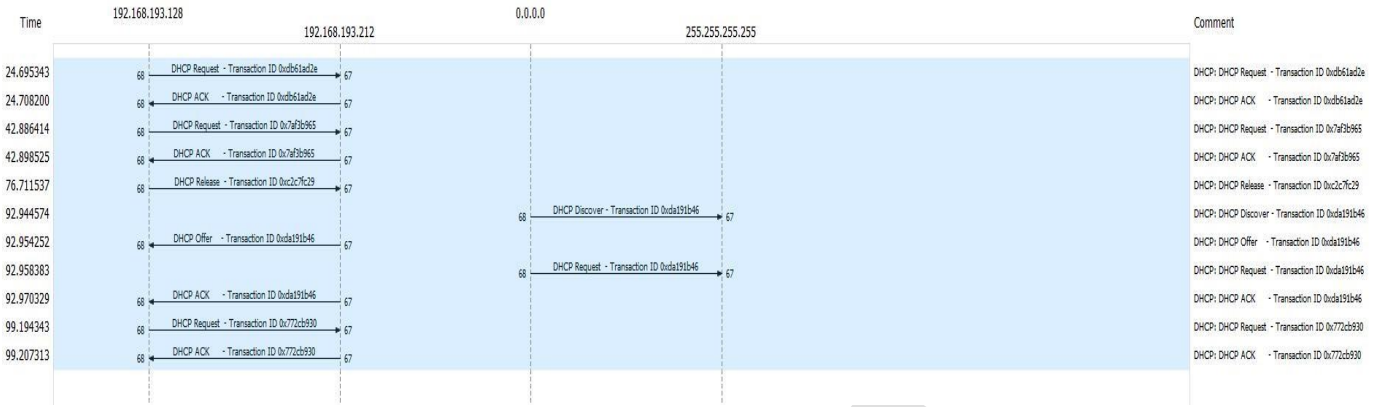
2. Questions:-

1. Are DHCP messages sent over UDP or TCP?

- UDP



2. Draw a timing datagram illustrating the sequence of the first four-packet Discover/Offer/Request/ACK DHCP exchange between the client and server. For each packet, indicated the source and destination port numbers. Are the port numbers the same as in the example given in this lab assignment?



- The port numbers are same.

3. What is the link-layer (e.g., Ethernet) address of your host?

- (7c:21:4a:e0:ce:eb)

4. What values in the DHCP discover message differentiate this message from the DHCP request message?

```
1171 92.944574    0.0.0.0          255.255.255.255  DHCP    344 DHCP Discover - Transaction ID 0xda191b46
  Option: (53) DHCP Message Type (Discover)
     Length: 1
     DHCP: Discover (1)
0000  ff ff ff f
0010  01 4a a5 e
0020  ff ff 00 4

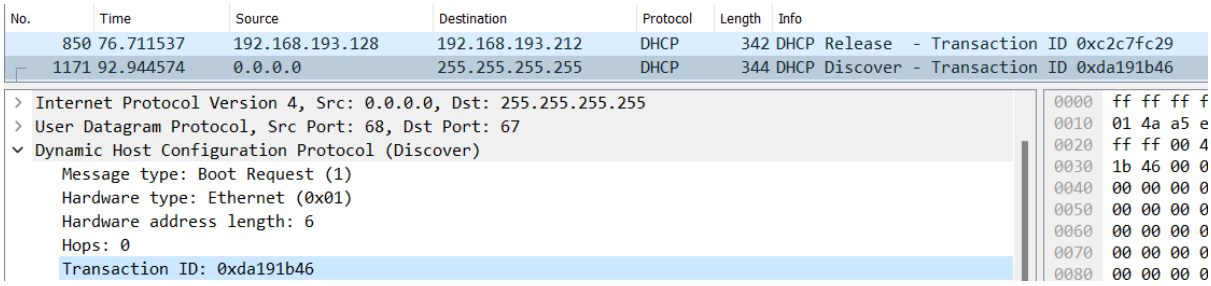
 469 42.886414    192.168.193.128  192.168.193.212  DHCP    358 DHCP Request  - Transaction ID 0x7af3b965
  Option: (53) DHCP Message Type (Request)
     Length: 1
     DHCP: Request (3)
0000  96 73 a6 e
0010  01 58 df 7
0020  c1 d4 00 4
```

5. What is the value of the Transaction-ID in each of the first four (Discover/Offer/Request/ACK) DHCP messages? What are the values of the Transaction-ID in the second set (Request/ACK) set of DHCP messages? What is the purpose of the Transaction-ID field?

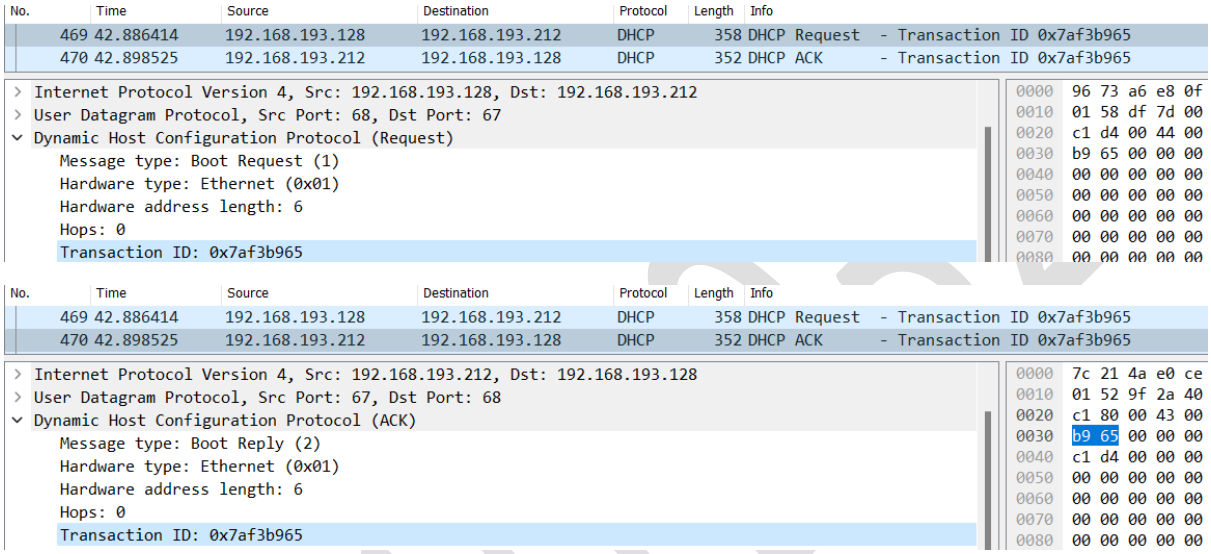
```
dhcp
No.  Time       Source           Destination      Protocol Length Info
 402 24.695343   192.168.193.128  192.168.193.212  DHCP      358 DHCP Request  - Transaction ID 0xdb61ad2e
  Transaction ID: 0xdb61ad2e
0000  96 73 a6

No.  Time       Source           Destination      Protocol Length Info
 402 24.695343   192.168.193.128  192.168.193.212  DHCP      358 DHCP Request  - Transaction ID 0xdb61ad2e
 403 24.708200   192.168.193.212  192.168.193.128  DHCP      352 DHCP ACK      - Transaction ID 0xdb61ad2e
  Transaction ID: 0xdb61ad2e
0000  7c 21 4a

No.  Time       Source           Destination      Protocol Length Info
 850 76.711537   192.168.193.128  192.168.193.212  DHCP      342 DHCP Release  - Transaction ID 0xc2c7fc29
1171 92.944574   0.0.0.0          255.255.255.255  DHCP      344 DHCP Discover - Transaction ID 0xda191b46
> Internet Protocol Version 4, Src: 192.168.193.128, Dst: 192.168.193.212
> User Datagram Protocol, Src Port: 68, Dst Port: 67
v Dynamic Host Configuration Protocol (Release)
    Message type: Boot Request (1)
    Hardware type: Ethernet (0x01)
    Hardware address length: 6
    Hops: 0
    Transaction ID: 0xc2c7fc29
0000  96 73 a6 e
0010  01 48 df 8
0020  c1 d4 00 4
0030  fc 29 00 0
0040  00 00 00 0
0050  00 00 00 0
0060  00 00 00 0
0070  00 00 00 0
```

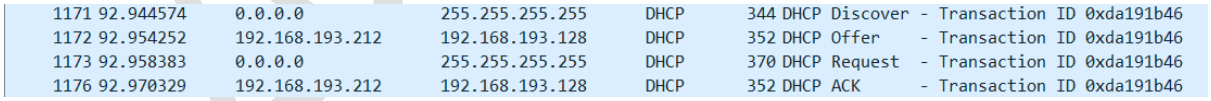


- Second Set (Request/ACK)



- Transaction ID field is used to associate messages and responses between a client and a server.

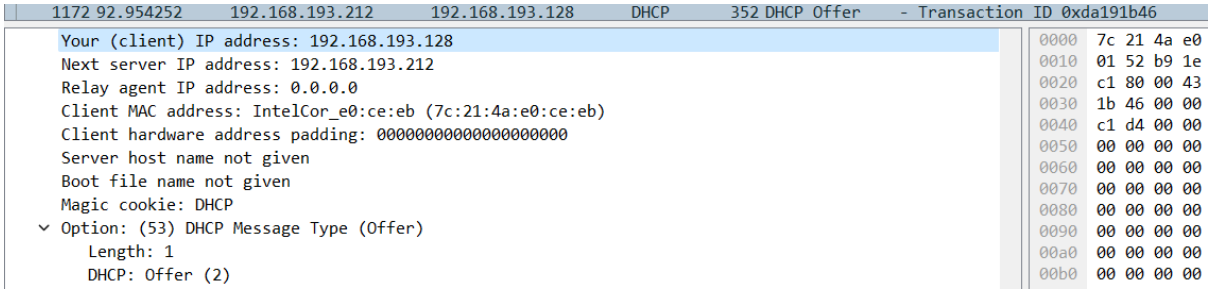
6. A host uses DHCP to obtain an IP address, among other things. But a host's IP address is not confirmed until the end of the four-message exchange! If the IP address is not set until the end of the four-message exchange, then what values are used in the IP datagrams in the four-message exchange? For each of the four DHCP messages (Discover/Offer/Request/ACK DHCP), indicate the source and destination IP addresses that are carried in the encapsulating IP datagram.



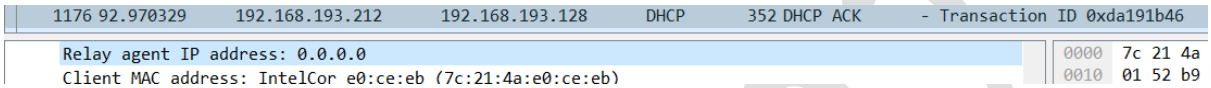
7. What is the IP address of your DHCP server?

- 192.168.193.212

8. What IP address is the DHCP server offering to your host in the DHCP Offer message? Indicate which DHCP message contains the offered DHCP address.



9. In the example screenshot in this assignment, there is no relay agent between the host and the DHCP server. What values in the trace indicate the absence of a relay agent? Is there a relay agent in your experiment? If so what is the IP address of the agent?



- No Relay Agent in the experiment.

10. Explain the purpose of the router and subnet mask lines in the DHCP offer message.

```
Option: (1) Subnet Mask (255.255.255.0)
     Length: 4
     Subnet Mask: 255.255.255.0
Option: (28) Broadcast Address (192.168.193.255)
     Length: 4
     Broadcast Address: 192.168.193.255
Option: (3) Router
     Length: 4
     Router: 192.168.193.212
```

- Which subnet mask should be used is specified on the subnet mask line for the client.

12. Explain the purpose of the lease time. How long is the lease time in your experiment?

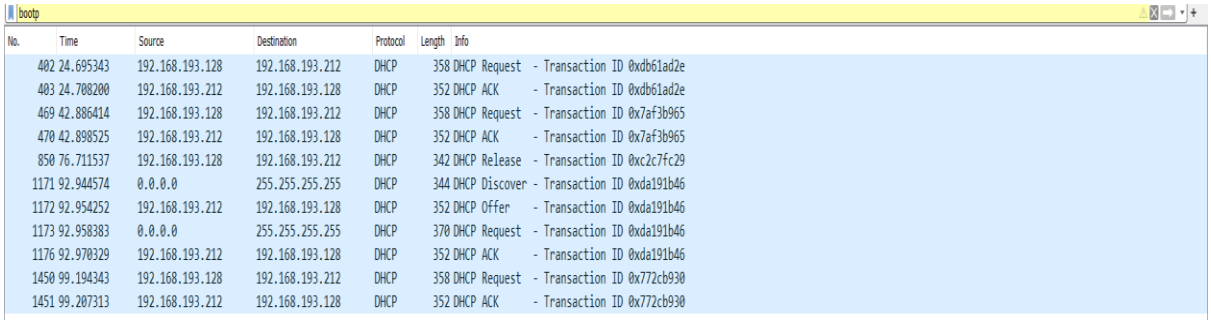
```
Option: (51) IP Address Lease Time
     Length: 4
     IP Address Lease Time: (3599s) 59 minutes, 59 seconds
```

- The purpose of this is the amount of time the DHCP server assigns an IP address to a client.

13. What is the purpose of the DHCP release message? Does the DHCP server issue an acknowledgment of receipt of the client's DHCP request? What would happen if the client's DHCP release message is lost?

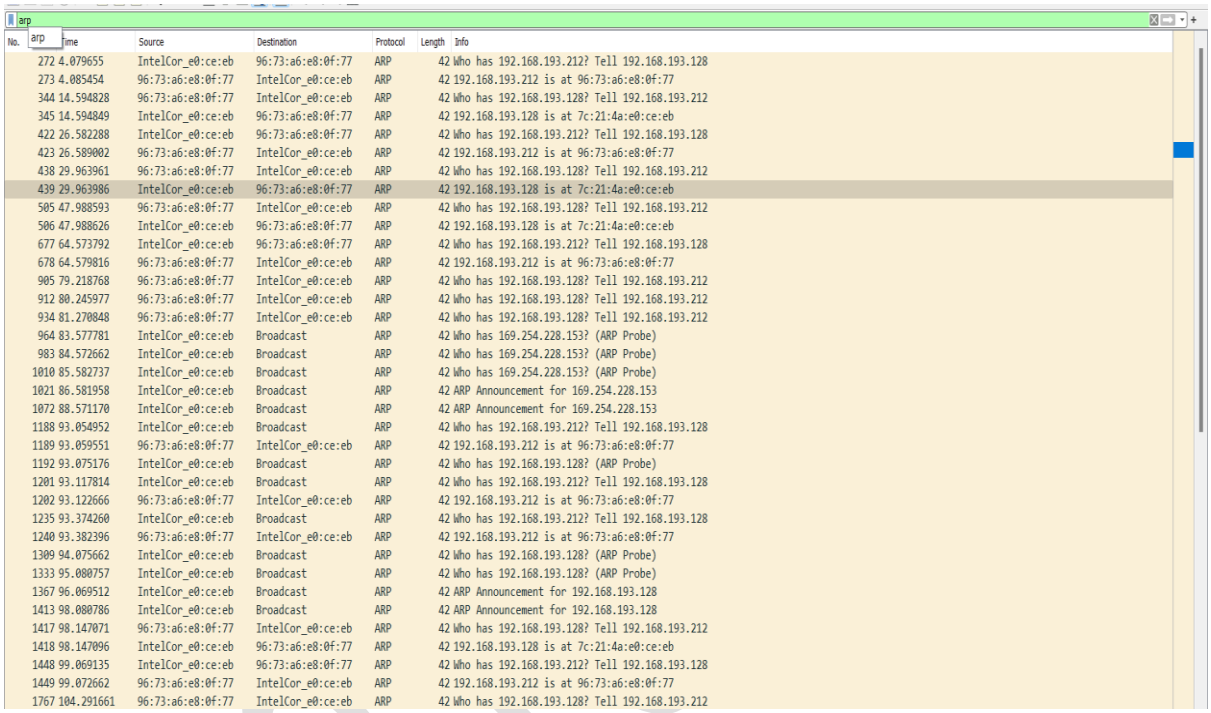
- A DHCP release message is sent by the client to to cancel the lease on an IP address given to it by the DHCP server.

14. Clear the bootp filter from your Wireshark window. Were any ARP packets sent or received during the DHCP packet-exchange period? If so, explain the purpose of those ARP packets.



bootp

No.	Time	Source	Destination	Protocol	Length	Info
402	24.695343	192.168.193.128	192.168.193.212	DHCP	358	DHCP Request - Transaction ID 0xdb61ad2e
403	24.708200	192.168.193.212	192.168.193.128	DHCP	352	DHCP ACK - Transaction ID 0xdb61ad2e
469	42.886414	192.168.193.128	192.168.193.212	DHCP	358	DHCP Request - Transaction ID 0x7af3b965
470	42.898525	192.168.193.212	192.168.193.128	DHCP	352	DHCP ACK - Transaction ID 0x7af3b965
850	76.711537	192.168.193.128	192.168.193.212	DHCP	342	DHCP Release - Transaction ID 0xc2c7fc29
1171	92.944574	0.0.0.0	255.255.255.255	DHCP	344	DHCP Discover - Transaction ID 0xda191b46
1172	92.954252	192.168.193.212	192.168.193.128	DHCP	352	DHCP Offer - Transaction ID 0xda191b46
1173	92.958383	0.0.0.0	255.255.255.255	DHCP	370	DHCP Request - Transaction ID 0xda191b46
1176	92.970329	192.168.193.212	192.168.193.128	DHCP	352	DHCP ACK - Transaction ID 0xda191b46
1450	99.194343	192.168.193.128	192.168.193.212	DHCP	358	DHCP Request - Transaction ID 0x772cb930
1451	99.207313	192.168.193.212	192.168.193.128	DHCP	352	DHCP ACK - Transaction ID 0x772cb930

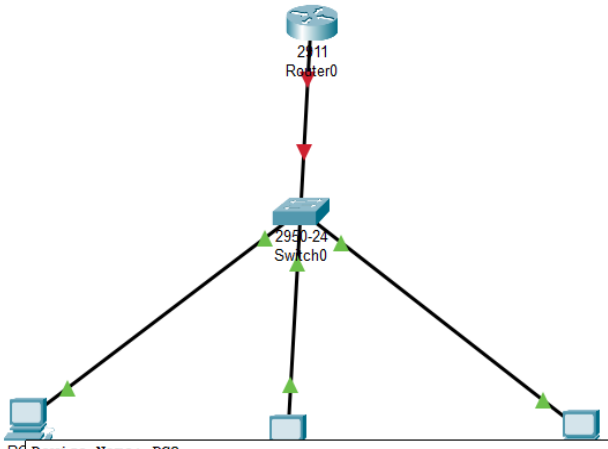


arp

No.	Time	Source	Destination	Protocol	Length	Info
272	4.079655	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
273	4.085454	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
344	14.594828	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
345	14.594849	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	192.168.193.128 is at 7c:21:4a:e0:ce:eb
422	26.582288	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
423	26.589002	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
438	29.963961	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
439	29.963986	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	192.168.193.128 is at 7c:21:4a:e0:ce:eb
505	47.988593	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
506	47.988626	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	192.168.193.128 is at 7c:21:4a:e0:ce:eb
677	64.573792	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
678	64.579816	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
905	79.218768	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
912	80.245977	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
934	81.270848	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
964	83.577781	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 169.254.228.153? (ARP Probe)
983	84.572662	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 169.254.228.153? (ARP Probe)
1010	85.582737	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 169.254.228.153? (ARP Probe)
1021	86.581958	IntelCor_e0:ce:eb	Broadcast	ARP	42	ARP Announcement for 169.254.228.153
1072	88.571170	IntelCor_e0:ce:eb	Broadcast	ARP	42	ARP Announcement for 169.254.228.153
1188	93.054952	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
1189	93.059551	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
1192	93.075176	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.128? (ARP Probe)
1201	93.117814	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
1202	93.122666	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
1235	93.374260	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
1240	93.382396	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
1309	94.075662	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.128? (ARP Probe)
1333	95.080757	IntelCor_e0:ce:eb	Broadcast	ARP	42	Who has 192.168.193.128? (ARP Probe)
1367	96.069512	IntelCor_e0:ce:eb	Broadcast	ARP	42	ARP Announcement for 192.168.193.128
1413	98.080786	IntelCor_e0:ce:eb	Broadcast	ARP	42	ARP Announcement for 192.168.193.128
1417	98.147071	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212
1418	98.147096	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	192.168.193.128 is at 7c:21:4a:e0:ce:eb
1448	99.069135	IntelCor_e0:ce:eb	96:73:a6:e8:0f:77	ARP	42	Who has 192.168.193.212? Tell 192.168.193.128
1449	99.072662	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	192.168.193.212 is at 96:73:a6:e8:0f:77
1767	104.291661	96:73:a6:e8:0f:77	IntelCor_e0:ce:eb	ARP	42	Who has 192.168.193.128? Tell 192.168.193.212

3. Experiment2:-

1. Implement following topology in packet tracer
2. Set ip address of router as 192.168.1.1/24.
3. Turn on port of router
4. Run following code in router configuration
5. Also add following commands in router configuration
   Router(config)ip dhcp excluded-address 192.168.1.1 192.168.1.10
6. Configure all PCs as following:
7. (a) Click PC1->Desktop->IP configuration. Then enable DHCP
8. Check which ip addresses are assigned to pc by DHCP server

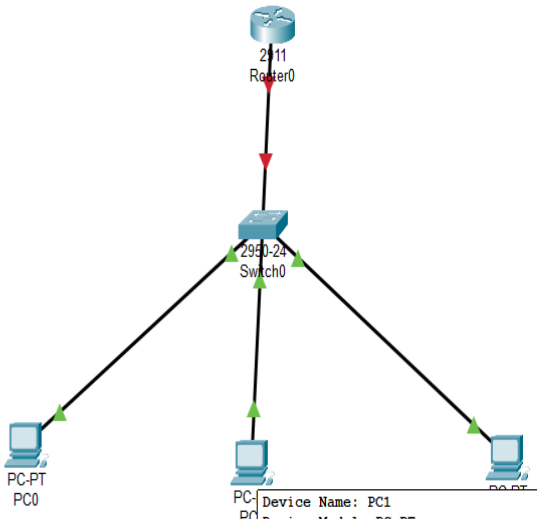



```
Device Name: PC0
Device Model: PC-PT

Port            Link   IP Address         IPv6 Address                          MAC Address
FastEthernet0   Up     169.254.102.103/16 <not set>                             000A.41BE.6667
Bluetooth       Down   <not set>          <not set>                             000C.8584.516E

Gateway: <not set>
DNS Server: <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > PC0
```

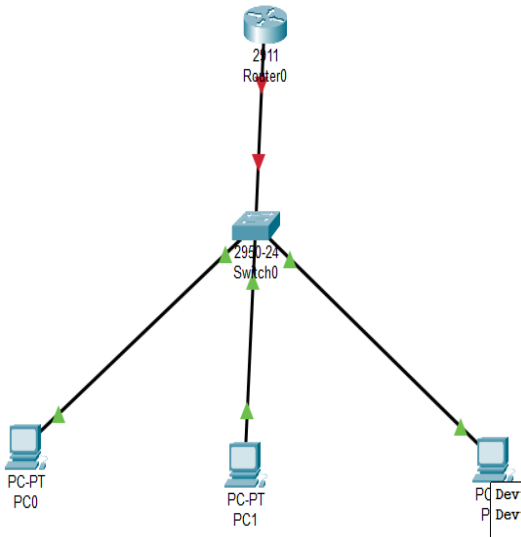



```
Device Name: PC1
Device Model: PC-PT

Port            Link   IP Address         IPv6 Address                          MAC Address
FastEthernet0   Up     169.254.237.212/16 <not set>                             0001.9773.EDD4
Bluetooth       Down   <not set>          <not set>                             0060.3E92.556A

Gateway: <not set>
DNS Server: <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > PC1
```




```
Device Name: PC2
Device Model: PC-PT

Port            Link   IP Address         IPv6 Address                            MAC Address
FastEthernet0   Up     169.254.125.226/16 <not set>                               0090.2BDC.7DE2
Bluetooth       Down   <not set>          <not set>                               00E0.A3ED.CCB3

Gateway: <not set>
DNS Server: <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > PC2
```