PROJECT -1 IP PACKET ANALYSIS USING WIRESHARK

<u>Step1-open wireshark (right click and run as administration)</u>

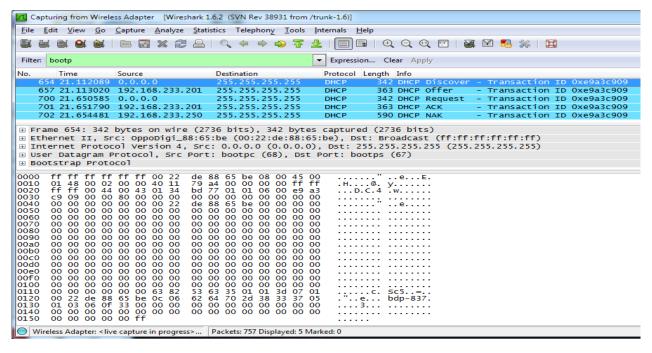
Step2-click on the wifi option

Welcome to Wir	eshark				
Capture					
using this filter:	Enter a capture filter				
Bluetooth Networ					
Ethernet					
Wi-Fi	ل	L			
VMware Network	Adapter VMnet8				
	Adapter VMnet1				
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Step3- In the command prompt apply the ipconfig command

```
Select Command Prompt
                                                                                                 X
 Default Gateway . . . .
hernet adapter VMware Network Adapter VMnet8:
 Connection-specific DNS Suffix .:
 Link-local IPv6 Address . . . : fe80::9889:4c38:272c:e12f%7
IPv4 Address . . . . . : 192.168.75.1
 Subnet Mask . . . . . . . . . . : 255.255.255.0
 Default Gateway . . . . . . . .
ireless LAN adapter Wi-Fi:
 Connection-specific DNS Suffix .:
 Link-local IPv6 Address . . . . : fe80::7d08:e0bb:161f:dbbc%8
 IPv4 Address. . . . . . . . . . : 192.168.0.106
 Subnet Mask . . . . . . . . . : 255.255.255.0
 Default Gateway . . . . . . . : 192.168.0.1
thernet adapter Bluetooth Network Connection:
                           . . : Media disconnected
 nnel adapter Local Area Connection* 11:
 Connection-specific DNS Suffix . :
 Default Gateway . . . . . . . : ::
```

Step 4- In the filters tab apply the bootp filter (it captures only the DHCP traffic)



<u>Here</u>

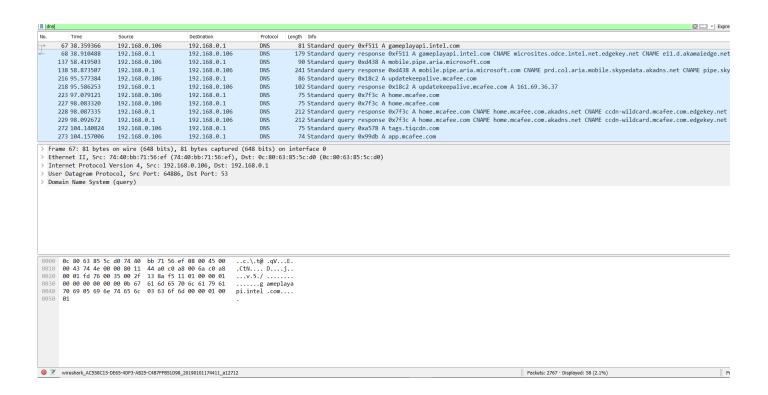
<u>Discover is used to find the DHCP server</u>

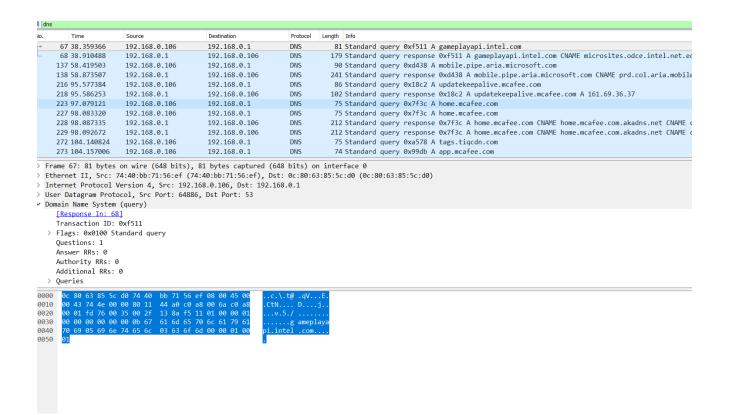
Offer is used to ask for the IPs

Request is used to assign IPs

Acknowledgment is used to give specific IPs

Step 5- Apply the dns filter in the filters tab





Step6- Then apply the SSI filter

Ssl &&ip. address==

Time	Source	Destination	Protocol	Length Info
7 4.085161	192.168.0.106	64.233.184.94	SSL	55 Continuation Data
27 29.132267	192.168.0.106	172.217.27.206	TCP	55 [TCP segment of a reassembled PDU]
37 37.137149 192.168.0.106 172.217.166.194		TCP	55 [TCP segment of a reassembled PDU]	
38 37.137149	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
39 37.137270	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
40 37.137346	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
45 37.344814	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
69 38.928151	192.168.0.106	161.69.226.21	TLSv1	443 Application Data
72 39.393112	161.69.226.21	192.168.0.106	TLSv1	155 Application Data
78 40.352754	192.168.0.106	23.56.24.24	TLSv1	179 Client Hello
80 40.753535	23.56.24.24	192.168.0.106	TLSv1	1494 Server Hello
81 40.753537	23.56.24.24	192.168.0.106	TLSv1	1494 Certificate[TCP segment of a reassembled PDU]

- Thermost II, Src: 74:40:bb:71:56:ef (74:40:bb:71:56:ef), Dst: 0c:80:63:85:5c:d0 (0c:80:63:85:5c:d0)

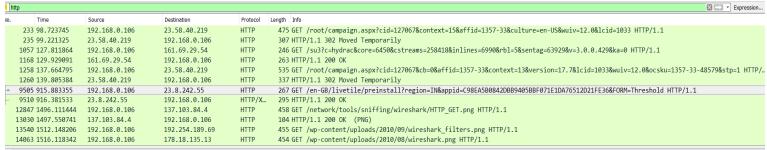
 Internet Protocol Version 4, Src: 192.168.0.106, Dst: 64.233.184.94
- Transmission Control Protocol, Src Port: 49955, Dst Port: 443, Seq: 1, Ack: 1, Len: 1 Secure Sockets Layer

Step 7- Apply the Tcp filter

TCP && ip.adder==

	Time	Source	Destination	Protocol	Length Info
	7 4.085161	192.168.0.106	64.233.184.94	SSL	55 Continuation Data
	8 4.605738	64.233.184.94	192.168.0.106	TCP	54 443 → 49955 [RST] Seq=1 Win=0 Len=0
	27 29.132267	192.168.0.106	172.217.27.206	TCP	55 [TCP segment of a reassembled PDU]
	28 29.136280	65.55.163.78	192.168.0.106	TCP	54 443 → 49965 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
	29 30.303735	172.217.27.206	192.168.0.106	TCP	66 443 → 49944 [ACK] Seq=1 Ack=2 Win=246 Len=0 SLE=1 SRE=2
	30 30.464810	65.55.163.78	192.168.0.106	TCP	54 443 → 49969 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
	37 37.137149	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
	38 37.137149	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
	39 37.137270	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
	40 37.137346	192.168.0.106	172.217.166.194	TCP	55 [TCP segment of a reassembled PDU]
	41 37.145818	172.217.166.194	192.168.0.106	TCP	66 443 → 49951 [ACK] Seq=1 Ack=2 Win=242 Len=0 SLE=1 SRE=2
	42 37.145819	172.217.166.194	192.168.0.106	TCP	66 443 → 49950 [ACK] Seq=1 Ack=2 Win=242 Len=0 SLE=1 SRE=2
	Flags: 0x010 (Ad Window size value	ue: 68			
>	Window size valu [Calculated window size scanned] (Window size scanned) (Checksum: 0x7860 [Checksum Status Urgent pointer: [SEQ/ACK analys:	ue: 68 dow size: 68] aling factor: -1 (unk 0 [unverified] s: Unverified] 0 is]	known)]		
>	Window size valu [Calculated window size scale (Checksum: 0x7860 [Checksum Status Urgent pointer: [SEQ/ACK analys: ecure Sockets Lay	ue: 68 dow size: 68] aling factor: -1 (unk 0 [unverified] s: Unverified] 0 is]		\.t@ .qV.	

Step 8- Apply the Http filter



- Frame 9505: 267 bytes on wire (2136 bits), 267 bytes captured (2136 bits) on interface 0 Ethernet II, Src: 74:40:bb:71:56:ef (74:40:bb:71:56:ef), Dst: 0c:80:63:85:5c:d0 (0c:80:63:85:5c:d0)
- Internet Protocol Version 4, Src: 192.168.0.106, Dst: 23.8.242.55
- Transmission Control Protocol, Src Port: 50037, Dst Port: 80, Seq: 1, Ack: 1, Len: 213
- Hypertext Transfer Protocol

GET /en-GB/livetile/preinstall?region=IN&appid=C98EA5B0842DBB9405BBF071E1DA76512D21FE36&FORM=Threshold HTTP/1.1\r\n

Connection: Keep-Alive\r\n
User-Agent: Microsoft-WNS/10.0\r\n Host: tile-service.weather.microsoft.com\r\n

 $\r\n$

[Full request URI: http://tile-service.weather.microsoft.com/en-GB/livetile/preinstall?region=IN&appid=C98FA5B0842DBB9405BBF071E1DA76512D21FE36&FORM=Threshold]

[HTTP request 1/1]

[Response in frame: 9510]

0000	9C 80	03	85 5	oc av	74 40	DD	/1	סכ	ет	98	90	45	99	c.\.t@ .qvE.
0010	00 fd		bb 4	10 00	80 06	de	ed		a8	00		17	08	P.@ j
0020	f2 37		75 e	90 50	3e b0	0f		98					18	.7.u.P>g^.P.
0030	00 44	ed	9b 6	00 00	47 45	54					2d	47	42	.DGE T /en-GB
0040	2f 6c		76 6		69 6c		2f						73	/livetil e/preins
0050	74 61				65 67		6f		3d		4e		61	tall?reg ion=IN&a
0060	70 70		64 3	3d 43	39 38				42	30		34	32	ppid=C98 EA5B0842
0070	44 42	42		34 30	35 42	42		30					44	DBB9405B BF071E1D
0800	41 37				44 32		46						4f	A76512D2 1FE36&FO
0090	52 4d	3d	54 6	8 72					64	20		54	54	RM=Thres hold HTT
00a0	50 2f		2e 3	31 0d	0a 43								6f	P/1.1C onnectio
00b0	6e 3a		4b 6	55 65	70 2d						0d	0a	55	n: Keep- AliveU
00c0	73 65		2d 4	11 67	65 6e			20	4d				6f	ser-Agen t: Micro
00d0	73 6f	66	74 2	2d 57	4e 53	2f	31	30	2e	30	0d	0a	48	soft-WNS /10.0H