

Hunter Donald

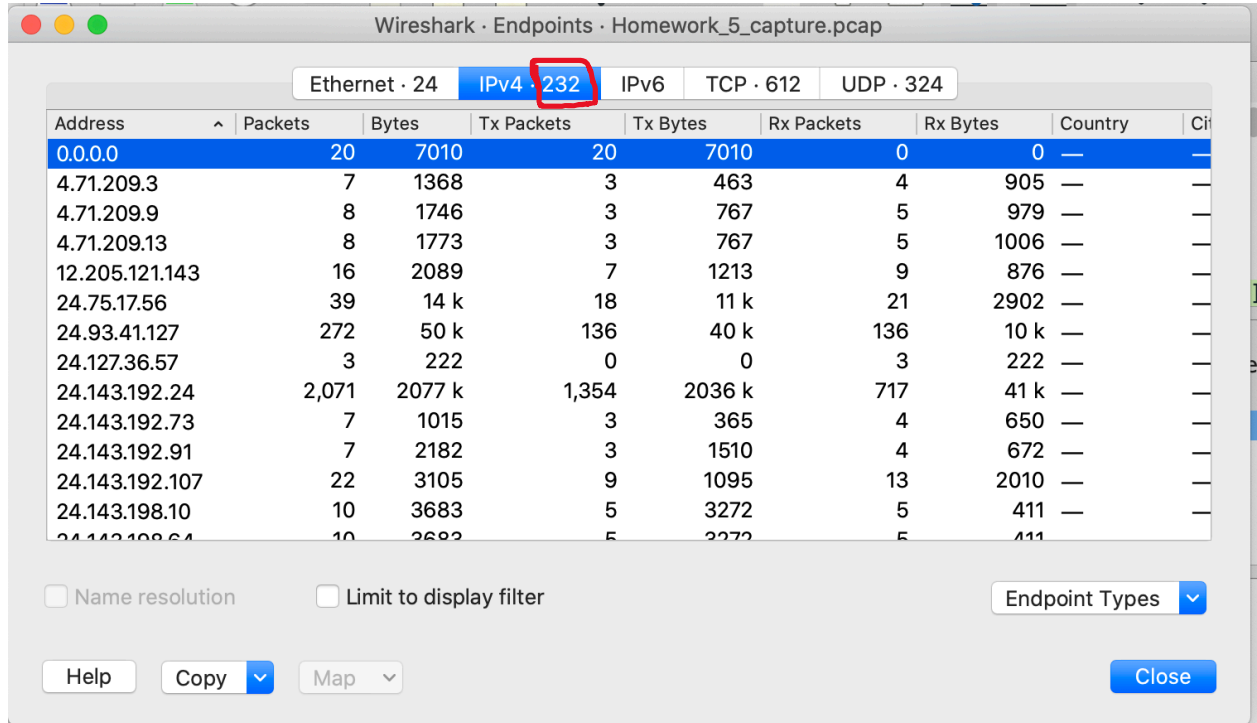
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Homework 5

1)

There are 232 unique IP addresses. This is found by going to statistics, then endpoints, then the IPv4 tab.



The screenshot shows the Wireshark 'Endpoints' window for the file 'Homework\_5\_capture.pcap'. The 'IPv4' tab is selected and highlighted with a red box, showing 232 unique addresses. The table below lists the top endpoints by traffic volume.

Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Country	City
0.0.0.0	20	7010	20	7010	0	0	—	—
4.71.209.3	7	1368	3	463	4	905	—	—
4.71.209.9	8	1746	3	767	5	979	—	—
4.71.209.13	8	1773	3	767	5	1006	—	—
12.205.121.143	16	2089	7	1213	9	876	—	—
24.75.17.56	39	14 k	18	11 k	21	2902	—	—
24.93.41.127	272	50 k	136	40 k	136	10 k	—	—
24.127.36.57	3	222	0	0	3	222	—	—
24.143.192.24	2,071	2077 k	1,354	2036 k	717	41 k	—	—
24.143.192.73	7	1015	3	365	4	650	—	—
24.143.192.91	7	2182	3	1510	4	672	—	—
24.143.192.107	22	3105	9	1095	13	2010	—	—
24.143.198.10	10	3683	5	3272	5	411	—	—
24.143.198.64	10	3683	5	3272	5	411	—	—

At the bottom of the window, there are checkboxes for 'Name resolution' and 'Limit to display filter', a dropdown for 'Endpoint Types', and buttons for 'Help', 'Copy', 'Map', and 'Close'.

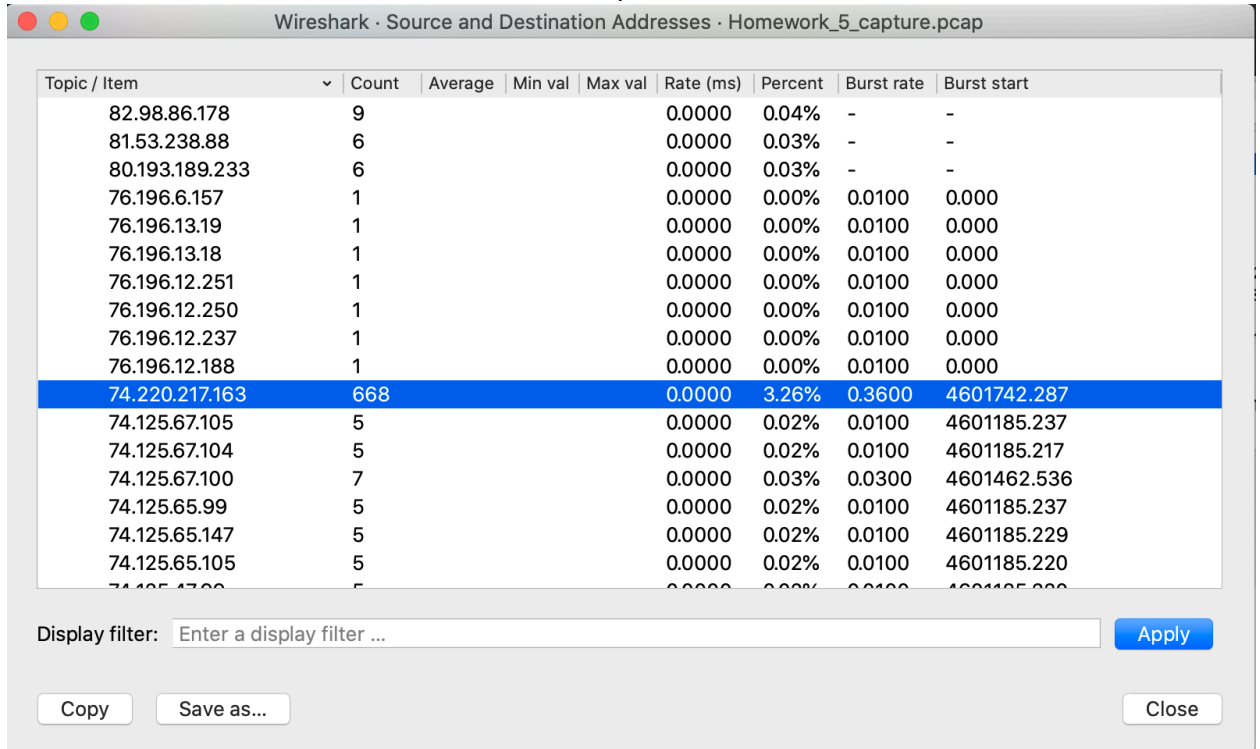
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2) For 74.220.217.163 as a source, there are 668 packets.



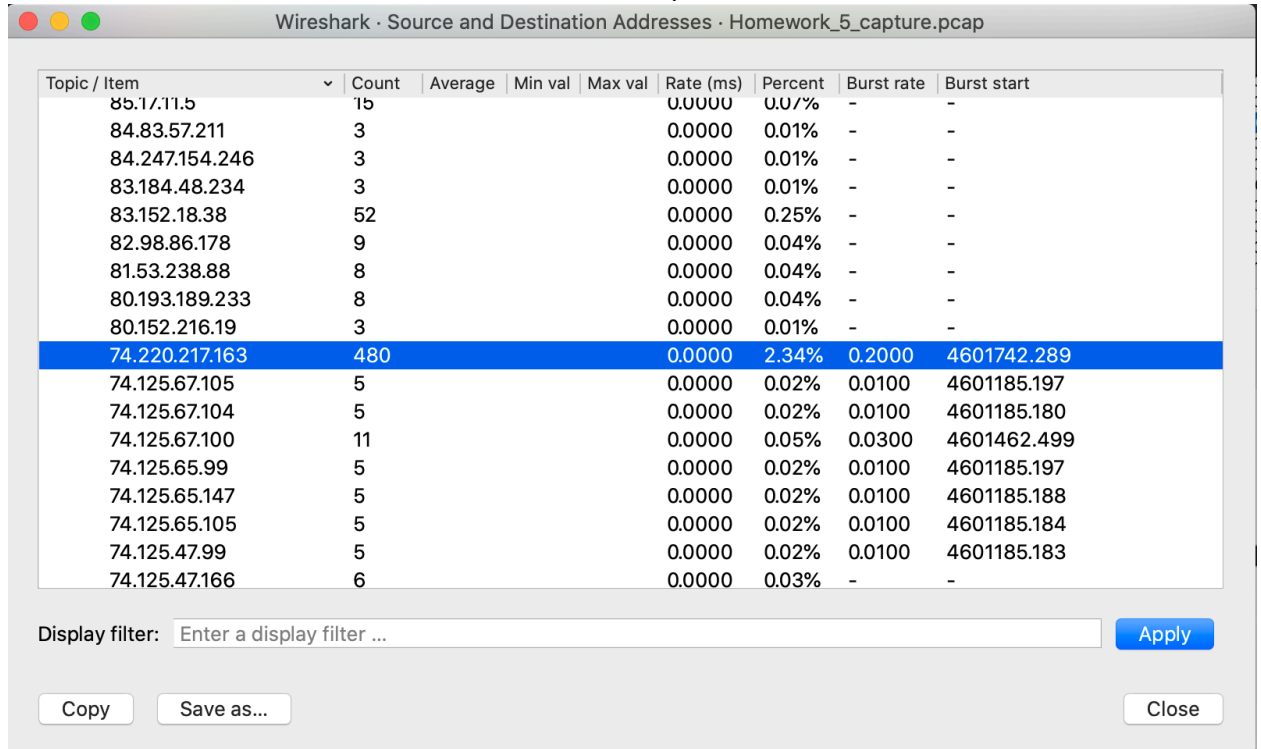
Wireshark · Source and Destination Addresses · Homework\_5\_capture.pcap

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
82.98.86.178	9				0.0000	0.04%	-	-
81.53.238.88	6				0.0000	0.03%	-	-
80.193.189.233	6				0.0000	0.03%	-	-
76.196.6.157	1				0.0000	0.00%	0.0100	0.000
76.196.13.19	1				0.0000	0.00%	0.0100	0.000
76.196.13.18	1				0.0000	0.00%	0.0100	0.000
76.196.12.251	1				0.0000	0.00%	0.0100	0.000
76.196.12.250	1				0.0000	0.00%	0.0100	0.000
76.196.12.237	1				0.0000	0.00%	0.0100	0.000
76.196.12.188	1				0.0000	0.00%	0.0100	0.000
74.220.217.163	668				0.0000	3.26%	0.3600	4601742.287
74.125.67.105	5				0.0000	0.02%	0.0100	4601185.237
74.125.67.104	5				0.0000	0.02%	0.0100	4601185.217
74.125.67.100	7				0.0000	0.03%	0.0300	4601462.536
74.125.65.99	5				0.0000	0.02%	0.0100	4601185.237
74.125.65.147	5				0.0000	0.02%	0.0100	4601185.229
74.125.65.105	5				0.0000	0.02%	0.0100	4601185.220
74.125.47.22	5				0.0000	0.02%	0.0100	4601185.220

Display filter:

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For 74.220.217.163 as a destination, there are 480 packets.



Wireshark · Source and Destination Addresses · Homework\_5\_capture.pcap

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
85.17.11.5	15				0.0000	0.07%	-	-
84.83.57.211	3				0.0000	0.01%	-	-
84.247.154.246	3				0.0000	0.01%	-	-
83.184.48.234	3				0.0000	0.01%	-	-
83.152.18.38	52				0.0000	0.25%	-	-
82.98.86.178	9				0.0000	0.04%	-	-
81.53.238.88	8				0.0000	0.04%	-	-
80.193.189.233	8				0.0000	0.04%	-	-
80.152.216.19	3				0.0000	0.01%	-	-
74.220.217.163	480				0.0000	2.34%	0.2000	4601742.289
74.125.67.105	5				0.0000	0.02%	0.0100	4601185.197
74.125.67.104	5				0.0000	0.02%	0.0100	4601185.180
74.125.67.100	11				0.0000	0.05%	0.0300	4601462.499
74.125.65.99	5				0.0000	0.02%	0.0100	4601185.197
74.125.65.147	5				0.0000	0.02%	0.0100	4601185.188
74.125.65.105	5				0.0000	0.02%	0.0100	4601185.184
74.125.47.99	5				0.0000	0.02%	0.0100	4601185.183
74.125.47.166	6				0.0000	0.03%	-	-

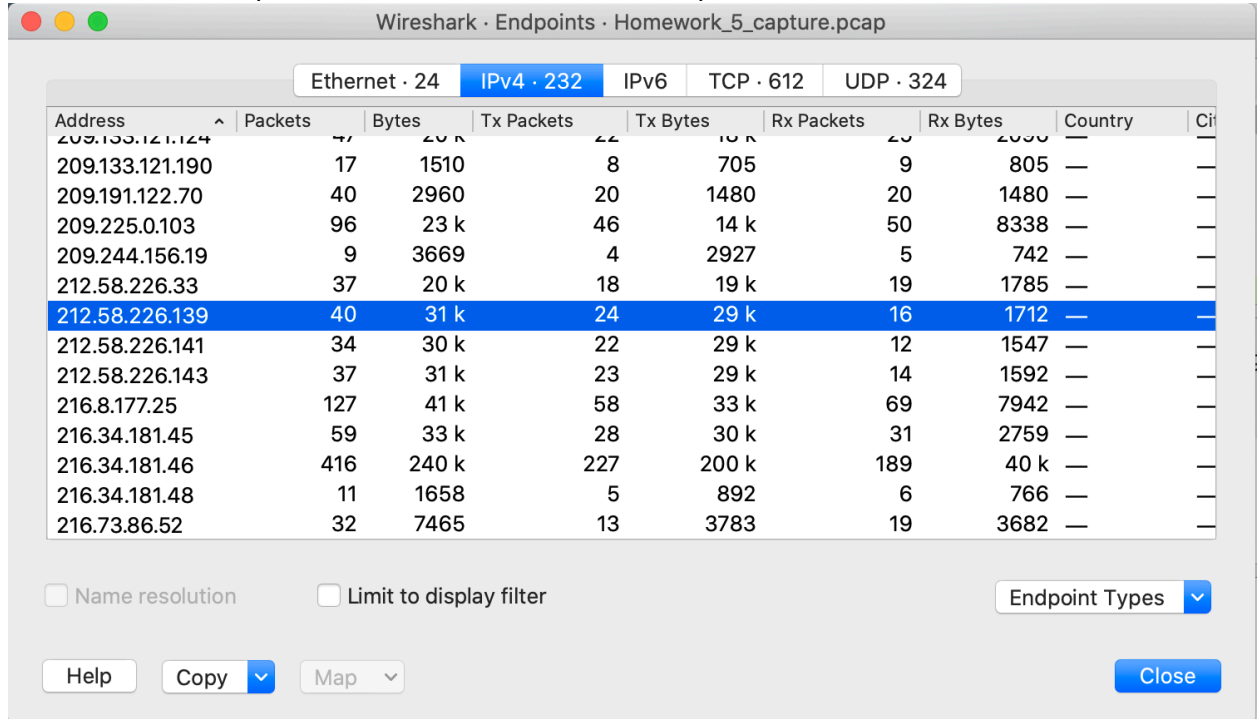
Display filter:

This is found by going to statistics, then IPv4 statistics, then Source and Destination Addresses.

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3)

There are 40 packets captured from 212.58.226.139. This was found by going to Statistics, then Endpoints, and find the IP address in question.



Wireshark · Endpoints · Homework\_5\_capture.pcap

Ethernet · 24 IPv4 · 232 IPv6 TCP · 612 UDP · 324

Address	Packets	Bytes	Tx Packets	Tx Bytes	Rx Packets	Rx Bytes	Country	City
209.133.121.124	17	1510	8	705	9	805	—	—
209.191.122.70	40	2960	20	1480	20	1480	—	—
209.225.0.103	96	23 k	46	14 k	50	8338	—	—
209.244.156.19	9	3669	4	2927	5	742	—	—
212.58.226.33	37	20 k	18	19 k	19	1785	—	—
212.58.226.139	40	31 k	24	29 k	16	1712	—	—
212.58.226.141	34	30 k	22	29 k	12	1547	—	—
212.58.226.143	37	31 k	23	29 k	14	1592	—	—
216.8.177.25	127	41 k	58	33 k	69	7942	—	—
216.34.181.45	59	33 k	28	30 k	31	2759	—	—
216.34.181.46	416	240 k	227	200 k	189	40 k	—	—
216.34.181.48	11	1658	5	892	6	766	—	—
216.73.86.52	32	7465	13	3783	19	3682	—	—

☐ Name resolution ☐ Limit to display filter Endpoint Types ▼

Help Copy ▼ Map ▼ Close

4) The “ip.addr == 192.168.0.0/24” filter will show the IP traffic that originated and was destined for the 192.168.0.0/24 network.

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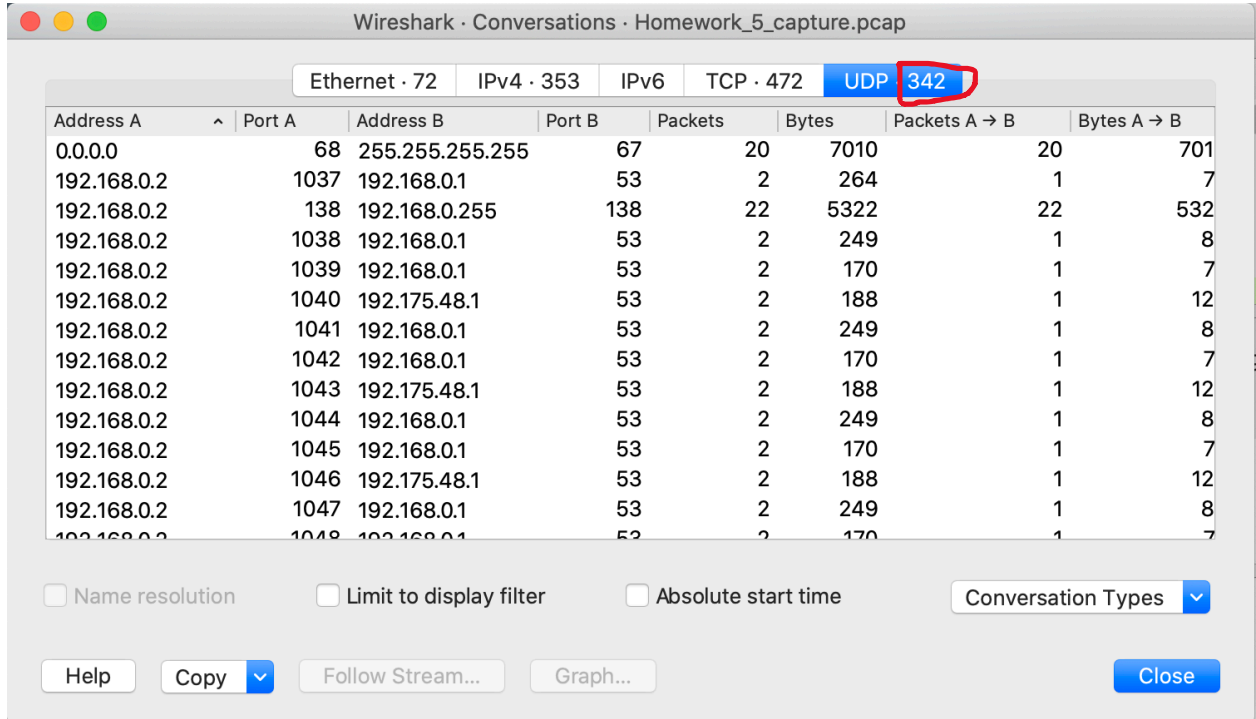
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5)

There are 342 UDP conversations. This is found by going to Statistics, Conversations, then the UDP tab.



The image shows the Wireshark 'Conversations' window for the file 'Homework\_5\_capture.pcap'. The 'UDP' tab is selected and highlighted with a red circle, showing a count of 342. Below the tabs is a table of conversation statistics. The table has columns for Address A, Port A, Address B, Port B, Packets, Bytes, Packets A → B, and Bytes A → B. The data shows various UDP conversations, with the most frequent being from 192.168.0.2 to 192.168.0.1 on port 53.

Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B
0.0.0.0	68	255.255.255.255	67	20	7010	20	701
192.168.0.2	1037	192.168.0.1	53	2	264	1	7
192.168.0.2	138	192.168.0.255	138	22	5322	22	532
192.168.0.2	1038	192.168.0.1	53	2	249	1	8
192.168.0.2	1039	192.168.0.1	53	2	170	1	7
192.168.0.2	1040	192.175.48.1	53	2	188	1	12
192.168.0.2	1041	192.168.0.1	53	2	249	1	8
192.168.0.2	1042	192.168.0.1	53	2	170	1	7
192.168.0.2	1043	192.175.48.1	53	2	188	1	12
192.168.0.2	1044	192.168.0.1	53	2	249	1	8
192.168.0.2	1045	192.168.0.1	53	2	170	1	7
192.168.0.2	1046	192.175.48.1	53	2	188	1	12
192.168.0.2	1047	192.168.0.1	53	2	249	1	8
192.168.0.2	1048	192.168.0.1	53	2	170	1	7

Below the table are several checkboxes: 'Name resolution' (unchecked), 'Limit to display filter' (unchecked), and 'Absolute start time' (unchecked). To the right is a 'Conversation Types' dropdown menu. At the bottom are buttons for 'Help', 'Copy' (with a dropdown arrow), 'Follow Stream...', 'Graph...', and 'Close'.

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- 6) On the date 2010-02-02, there were 40 packets sent to host 192.168.0.1 all from different source IP addresses. Also, all of the packets were identical and sent at nearly the exact same time. Almost all of the packets were SYN packets which indicates that there was an attempted SYN Flood DoS attack on the host 192.168.0.1 on 2010-02-02 at around 08:40:36.

No.	Time	Source	Destination	Protocol	Length	Info
1	2010-02-02 08:40:36.411832	164.124.33.78	192.168.0.1	TCP	54	35165 → 80 [SYN] Seq=0 Win=16384 Len=0
2	2010-02-02 08:40:36.411833	38.198.26.9	192.168.0.1	TCP	54	14378 → 80 [SYN] Seq=0 Win=16384 Len=0
3	2010-02-02 08:40:36.411835	132.212.36.201	192.168.0.1	TCP	54	31944 → 80 [SYN] Seq=0 Win=16384 Len=0
4	2010-02-02 08:40:36.411837	76.196.6.157	192.168.0.1	TCP	54	10404 → 80 [RST] Seq=1 Win=0 Len=0
5	2010-02-02 08:40:36.411889	189.109.37.180	192.168.0.1	TCP	54	36076 → 80 [SYN] Seq=0 Win=16384 Len=0
6	2010-02-02 08:40:36.411891	189.109.37.188	192.168.0.1	TCP	54	36084 → 80 [SYN] Seq=0 Win=16384 Len=0
7	2010-02-02 08:40:36.411892	76.196.12.251	192.168.0.1	TCP	54	12034 → 80 [SYN] Seq=0 Win=16384 Len=0
8	2010-02-02 08:40:36.411894	132.212.36.146	192.168.0.1	TCP	54	31889 → 80 [SYN] Seq=0 Win=16384 Len=0
9	2010-02-02 08:40:36.411896	189.109.30.67	192.168.0.1	TCP	54	34171 → 80 [RST] Seq=1 Win=0 Len=0
10	2010-02-02 08:40:36.411897	189.109.37.184	192.168.0.1	TCP	54	36080 → 80 [SYN] Seq=0 Win=16384 Len=0
11	2010-02-02 08:40:36.411899	164.124.33.164	192.168.0.1	TCP	54	35251 → 80 [SYN] Seq=0 Win=16384 Len=0
12	2010-02-02 08:40:36.411901	189.109.37.88	192.168.0.1	TCP	54	35984 → 80 [SYN] Seq=0 Win=16384 Len=0
13	2010-02-02 08:40:36.412014	76.196.12.188	192.168.0.1	TCP	54	11971 → 80 [SYN] Seq=0 Win=16384 Len=0
14	2010-02-02 08:40:36.412016	132.212.36.112	192.168.0.1	TCP	54	31855 → 80 [SYN] Seq=0 Win=16384 Len=0
15	2010-02-02 08:40:36.412018	164.124.33.95	192.168.0.1	TCP	54	35182 → 80 [SYN] Seq=0 Win=16384 Len=0
16	2010-02-02 08:40:36.412020	76.196.12.250	192.168.0.1	TCP	54	12033 → 80 [SYN] Seq=0 Win=16384 Len=0
17	2010-02-02 08:40:36.412021	164.124.33.94	192.168.0.1	TCP	54	35181 → 80 [SYN] Seq=0 Win=16384 Len=0
18	2010-02-02 08:40:36.412023	164.124.33.160	192.168.0.1	TCP	54	35247 → 80 [SYN] Seq=0 Win=16384 Len=0
19	2010-02-02 08:40:36.412025	38.198.26.94	192.168.0.1	TCP	54	14463 → 80 [SYN] Seq=0 Win=16384 Len=0
20	2010-02-02 08:40:36.412027	132.212.36.219	192.168.0.1	TCP	54	31962 → 80 [SYN] Seq=0 Win=16384 Len=0
21	2010-02-02 08:40:36.412298	164.124.33.172	192.168.0.1	TCP	54	35259 → 80 [SYN] Seq=0 Win=16384 Len=0
22	2010-02-02 08:40:36.412300	164.124.33.90	192.168.0.1	TCP	54	35177 → 80 [SYN] Seq=0 Win=16384 Len=0
23	2010-02-02 08:40:36.412302	132.212.36.218	192.168.0.1	TCP	54	31961 → 80 [SYN] Seq=0 Win=16384 Len=0
24	2010-02-02 08:40:36.412303	164.124.33.70	192.168.0.1	TCP	54	35157 → 80 [SYN] Seq=0 Win=16384 Len=0
25	2010-02-02 08:40:36.412305	76.196.12.237	192.168.0.1	TCP	54	12020 → 80 [SYN] Seq=0 Win=16384 Len=0
26	2010-02-02 08:40:36.412307	164.124.33.73	192.168.0.1	TCP	54	35160 → 80 [SYN] Seq=0 Win=16384 Len=0
27	2010-02-02 08:40:36.412308	189.109.37.206	192.168.0.1	TCP	54	36102 → 80 [SYN] Seq=0 Win=16384 Len=0
28	2010-02-02 08:40:36.412310	164.124.33.71	192.168.0.1	TCP	54	35158 → 80 [SYN] Seq=0 Win=16384 Len=0
29	2010-02-02 08:40:36.412312	61.141.8.140	192.168.0.1	TCP	54	10644 → 80 [SYN] Seq=0 Win=16384 Len=0
30	2010-02-02 08:40:36.412314	164.124.33.100	192.168.0.1	TCP	54	35187 → 80 [SYN] Seq=0 Win=16384 Len=0
31	2010-02-02 08:40:36.412315	38.198.26.40	192.168.0.1	TCP	54	14409 → 80 [SYN] Seq=0 Win=16384 Len=0
32	2010-02-02 08:40:36.412465	76.196.13.19	192.168.0.1	TCP	54	12058 → 80 [SYN] Seq=0 Win=16384 Len=0
33	2010-02-02 08:40:36.412467	76.196.13.18	192.168.0.1	TCP	54	12057 → 80 [SYN] Seq=0 Win=16384 Len=0
34	2010-02-02 08:40:36.412469	189.109.37.202	192.168.0.1	TCP	54	36098 → 80 [SYN] Seq=0 Win=16384 Len=0
35	2010-02-02 08:40:36.412470	164.124.33.97	192.168.0.1	TCP	54	35184 → 80 [SYN] Seq=0 Win=16384 Len=0
36	2010-02-02 08:40:36.412472	38.198.26.10	192.168.0.1	TCP	54	14379 → 80 [SYN] Seq=0 Win=16384 Len=0
37	2010-02-02 08:40:36.412474	38.198.26.30	192.168.0.1	TCP	54	14399 → 80 [SYN] Seq=0 Win=16384 Len=0
38	2010-02-02 08:40:36.412681	38.198.26.41	192.168.0.1	TCP	54	14410 → 80 [SYN] Seq=0 Win=16384 Len=0
39	2010-02-02 08:40:36.412682	38.198.26.39	192.168.0.1	TCP	54	14408 → 80 [SYN] Seq=0 Win=16384 Len=0

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- 7) By using the filter "ip.addr == 192.168.0.106" to find the IP address in question, then clicking on a packet with that IP address, then expanding Ethernet II and looking at source since 192.168.0.1 is the source for this packet, the MAC address is shown as 00:1e:68:c9:cd:35.

The image shows a Wireshark packet capture interface for a file named "Homework\_5\_capture.pcap". The filter bar at the top displays "ip.addr == 192.168.0.106". The packet list shows several packets, with packet 366 selected. The packet details pane for packet 366 shows the Ethernet II header with source MAC address 00:1e:68:c9:cd:35 and destination MAC address 00:09:a3:01:08:64. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
366	2010-03-27 15:53:04.605217	192.168.0.106	74.220.217.163	TCP	62	1067 → 80 [SYN]
367	2010-03-27 15:53:04.650361	74.220.217.163	192.168.0.106	TCP	62	80 → 1067 [SYN]
368	2010-03-27 15:53:04.650790	192.168.0.106	74.220.217.163	TCP	60	1067 → 80 [ACK]
369	2010-03-27 15:53:04.650792	192.168.0.106	74.220.217.163	HTTP	495	GET /ANRC-Educa
370	2010-03-27 15:53:04.700300	74.220.217.163	192.168.0.106	TCP	60	80 → 1067 [ACK]
371	2010-03-27 15:53:04.702026	74.220.217.163	192.168.0.106	TCP	1514	80 → 1067 [ACK]
372	2010-03-27 15:53:04.702887	74.220.217.163	192.168.0.106	TCP	1514	80 → 1067 [ACK]
373	2010-03-27 15:53:04.703316	192.168.0.106	74.220.217.163	TCP	60	1067 → 80 [ACK]
374	2010-03-27 15:53:04.748514	74.220.217.163	192.168.0.106	TCP	1514	80 → 1067 [ACK]
375	2010-03-27 15:53:04.750242	74.220.217.163	192.168.0.106	TCP	1514	80 → 1067 [ACK]
376	2010-03-27 15:53:04.750672	192.168.0.106	74.220.217.163	TCP	60	1067 → 80 [ACK]
377	2010-03-27 15:53:04.750674	74.220.217.163	192.168.0.106	TCP	1514	80 → 1067 [ACK] Seq=5

Frame 366: 62 bytes on wire (496 bits), 62 bytes captured (496 bits)

Ethernet II, Src: QuantaCo\_c9:cd:35 (00:1e:68:c9:cd:35), Dst: LeadflyT\_01:08:64 (00:09:a3:01:08:64)

Destination: LeadflyT\_01:08:64 (00:09:a3:01:08:64)

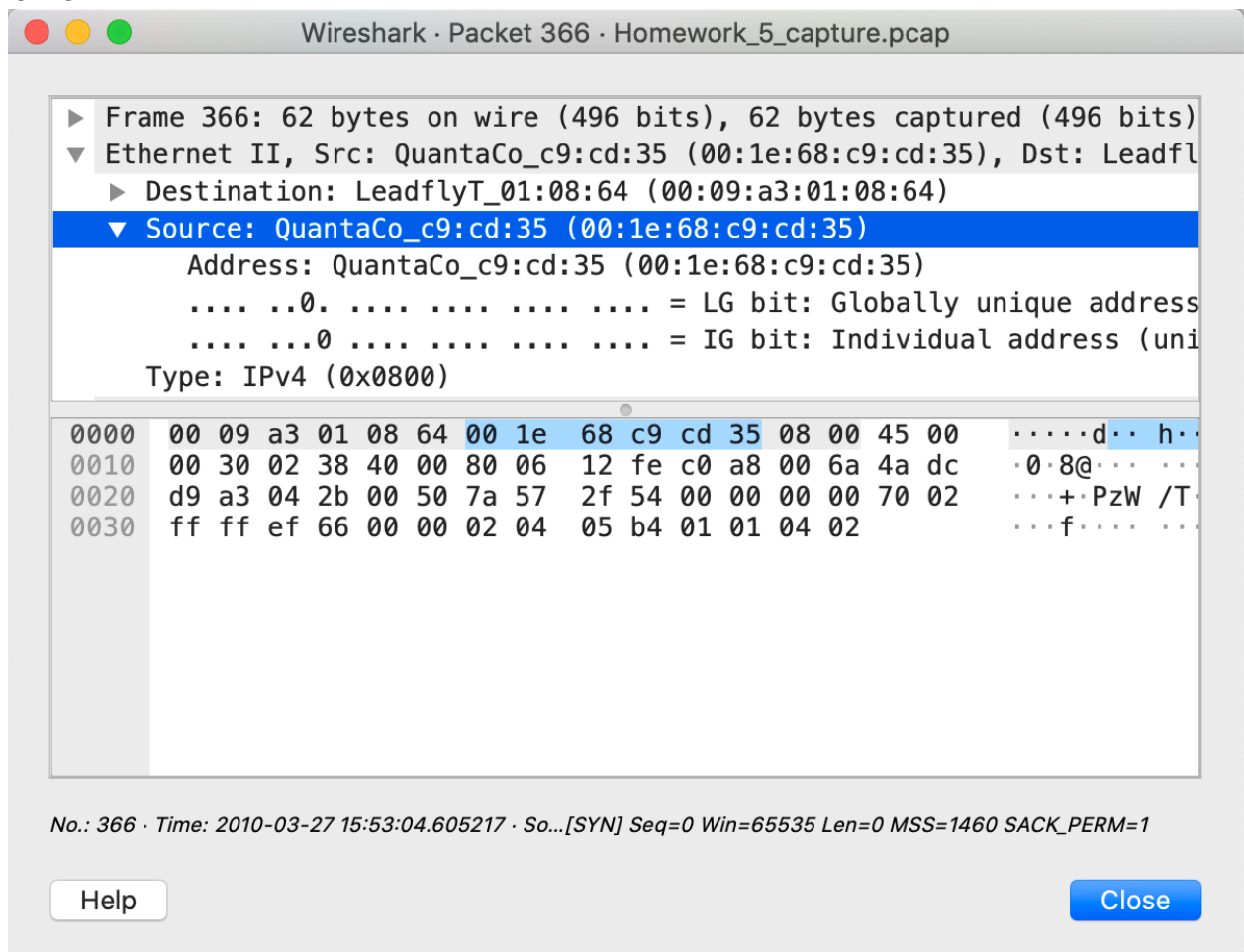
Address: LeadflyT\_01:08:64 (00:09:a3:01:08:64)

```
0000 00 09 a3 01 08 64 00 1e 68 c9 cd 35 08 00 45 00  ....d..h..5..E.
0010 00 30 02 38 40 00 80 06 12 fe c0 a8 00 6a 4a dc  .0.8@...    .jJ.
0020 d9 a3 04 2b 00 50 7a 57 2f 54 00 00 00 00 70 02  .+PzW /T...p.
0030 ff ff ef 66 00 00 02 04 05 b4 01 01 04 02      ...f.....
```

Homework\_5\_capture.pcap

Packets: 20630 · Displayed: 765 (3.7%) · Profile: Default

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- 8) There were two FTP sessions established. This was found by using the filter "ftp" and looking through the contents of the packets to see how many separate times the user actually connected to the FTP server. The user connected once, but quit before they logged in. Then they connected again, logged in, and performed some FTP commands before they quit again. Since the user quit twice, this means that there were two FTP sessions for the user to quit.



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9)

The password used to login was 70617373776f7264 which is a hexadecimal value which translates to “password” in plain text. So, their password is “password”.

The image shows a Wireshark packet capture of an FTP session. The packet list table is as follows:

No.	Time	Source	Destination	Protocol	Length	Info
5998	2008-05-26 20:18:43.225098	192.168.0.52	193.1.193.67	FTP	77	Request: PASS 7
5999	2008-05-26 20:18:43.380583	193.1.193.67	192.168.0.52	FTP	102	Response: 230 C
6002	2008-05-26 20:18:43.545337	193.1.193.67	192.168.0.52	FTP	73	Response: 215 U
6005	2008-05-26 20:18:45.855355	193.1.193.67	192.168.0.52	FTP	84	[TCP ACKed unse
6007	2008-05-26 20:18:45.855583	192.168.0.52	193.1.193.67	FTP	60	Request: LIST
6012	2008-05-26 20:18:46.156872	193.1.193.67	192.168.0.52	FTP	109	Response: 150 C
6019	2008-05-26 20:18:46.368257	193.1.193.67	192.168.0.52	FTP	78	Response: 226 T
6021	2008-05-26 20:18:54.616560	192.168.0.52	193.1.193.67	FTP	63	Request: CWD pu
6023	2008-05-26 20:18:54.768619	193.1.193.67	192.168.0.52	FTP	83	Response: 250 C
6025	2008-05-26 20:18:55.745906	192.168.0.52	193.1.193.67	FTP	81	Request: PORT 1
6026	2008-05-26 20:18:55.894957	193.1.193.67	192.168.0.52	FTP	84	Response: 200 F
6028	2008-05-26 20:18:55.895180	192.168.0.52	193.1.193.67	FTP	60	Request: LIST

The packet details pane for packet 5998 shows the following structure:

- Frame 5998: 77 bytes on wire (616 bits), 77 bytes captured (616 bits)
- Ethernet II, Src: QuantaCo\_95:17:1b (00:1b:24:95:17:1b), Dst: Netgear\_50:ba:f2 (00:09:5b:50:ba:f2)
- Internet Protocol Version 4, Src: 192.168.0.52, Dst: 193.1.193.67
- Transmission Control Protocol, Src Port: 48823, Dst Port: 21, Seq: 17, Ack: 441, Len: 23
- File Transfer Protocol (FTP)
  - PASS 70617373776f7264\r\n
    - Request command: PASS
    - Request arg: 70617373776f7264
    - [Current working directory: ]

The packet bytes pane shows the raw data: 0000 00 09 5b 50 ba f2 00 1b 24 95 17 1b 08 00 45 10 .. [P.... \$. ....E.

At the bottom, the status bar indicates: Packets: 20630 · Displayed: 42 (0.2%) · Profile: Default

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Homework 5

10)

The name of the file that was downloaded is "EssentialPatch.elf".

The image shows a Wireshark packet capture of an FTP session. The top toolbar includes icons for file operations, search, and display filters. The packet list pane shows a series of FTP transactions between 192.168.0.52 and 193.1.193.67. Packet 6078 is selected, showing a RETR request for 'EssentialPatch.elf'. The packet details pane provides a breakdown of the frame, including Ethernet II, IP, TCP, and FTP layers. The FTP layer shows the 'RETR EssentialPatch.elf\r\n' command and its response details, such as the current working directory and response frames. The packet bytes pane at the bottom shows the raw data of the selected packet, with a hex-to-ASCII conversion for the request argument.

No.	Time	Source	Destination	Protocol	Length	Info
6053	2008-05-26 20:19:03.379993	192.168.0.52	193.1.193.67	FTP	60	Request: LIST
6057	2008-05-26 20:19:03.681939	193.1.193.67	192.168.0.52	FTP	109	Response: 150 C
6065	2008-05-26 20:19:03.880195	193.1.193.67	192.168.0.52	FTP	78	Response: 226 1
6070	2008-05-26 20:19:17.908041	192.168.0.52	193.1.193.67	FTP	62	Request: TYPE 1
6073	2008-05-26 20:19:18.058270	193.1.193.67	192.168.0.52	FTP	74	Response: 200 1
6075	2008-05-26 20:19:18.058481	192.168.0.52	193.1.193.67	FTP	80	Request: PORT 1
6077	2008-05-26 20:19:18.210206	193.1.193.67	192.168.0.52	FTP	84	Response: 200 P
6078	2008-05-26 20:19:18.210355	192.168.0.52	193.1.193.67	FTP	79	Request: RETR E
6083	2008-05-26 20:19:18.505859	193.1.193.67	192.168.0.52	FTP	134	[TCP ACKed unse
6092	2008-05-26 20:19:18.718583	193.1.193.67	192.168.0.52	FTP	78	[TCP ACKed unse
6094	2008-05-26 20:19:22.021484	192.168.0.52	193.1.193.67	FTP	60	Request: QUIT
6096	2008-05-26 20:19:22.169898	193.1.193.67	192.168.0.52	FTP	68	Response: 221 Goodbye

Frame 6078: 79 bytes on wire (632 bits), 79 bytes captured (632 bits)  
Ethernet II, Src: QuantaCo\_95:17:1b (00:1b:24:95:17:1b), Dst: Netgear\_50:ba:f2 (00:09:5b:50:ba:f2)  
Internet Protocol Version 4, Src: 192.168.0.52, Dst: 193.1.193.67  
Transmission Control Protocol, Src Port: 48823, Dst Port: 21, Seq: 185, Ack: 943, Len: 25  
File Transfer Protocol (FTP)  
RETR EssentialPatch.elf\r\n  
Request command: RETR  
Request arg: EssentialPatch.elf  
[Current working directory: pub/dag]  
[Command response frames: 2]  
[Command response bytes: 1672]  
[Command response first frame: 6084]  
[Command response last frame: 6086]  
[Response duration: 1ms]

0030 00 6c ff fe 00 00 52 45 54 52 20 45 73 73 65 6e .l...RE TR Essen  
Request arg (ftp.request.arg), 18 bytes