# Computer Networks Lab 3

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### Q1

Find all the active TCP ports on your system. Identify the ports and PIDs of your web browser. Can you identify the port number and PID of a specific TAB in your browser? Find out if any of the services running in your system use the standard ports of HTTP, DHCP, DNS, SMTP, and FTP.

#### Answer:

First I used the command "netstat -an | findstr "TCP"" in windows cmd. Where

- "-a": Displays all active connections and listening ports.
- "-n": Displays addresses and port numbers in numerical form.
- "findstr": To filter only TCP connections.

Now I used this command "netstat -ano" in windows cmd and also opened the Task Manger and opened the details page inside it.

I located a chrome task in the Task Manager with PID of 15400 and port number 5353.

Unfortunately, I'm unable to identify the PID for specific tab in chrome browser. Browsers typically run all tabs under the same process or share a pool of processes. So it is very hard to identify a specific tab.

To check if any of the services running in my system use the standard ports of HTTP, DHCP, DNS, SMTP, and FTP, I used following commands.

```
netstat -an | findstr :80
netstat -an | findstr :443
netstat -an | findstr :67
netstat -an | findstr :68
netstat -an | findstr :53
netstat -an | findstr :25
```

### $netstat - an \mid findstr : 21$

#### where

• Port 80: HTTP

• Port 443: HTTPS

• Port 67/68: DHCP

• Port 53: DNS

• Port 25: SMTP

• Port 21: FTP

```
C:\Users\halde>netstat -an | findstr "TCP"
TCP 0.0.0.0:135 0.0.0.0:0 LISTENING
TCP 0.0.0.0:445 0.0.0.0:0 LISTENING
TCP 0.0.0.0:53306 0.0.0.0:0 LISTENING
TCP 0.0.0.0:55800 0.0.0.0:0 LISTENING
TCP 0.0.0.0:55800 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49664 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49665 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49666 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49666 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49666 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49667 0.0.0.0:0 LISTENING
TCP 0.0.0.0:49668 0.0.0.0:0 LISTENING
TCP 10.30.9.120:139 0.0.0.0:0 LISTENING
TCP 10.30.9.120:139 10.0.0.0:0 LISTENING
TCP 10.30.9.120:50193 123.45.47.114:443 ESTABLISHED
TCP 10.30.9.120:50193 132.45.47.114:443 ESTABLISHED
TCP 10.30.9.120:50496 10.30.9.186:61535 ESTABLISHED
TCP 10.30.9.120:50498 123.45.47.114:443 ESTABLISHED
TCP 10.30.9.120:50498 123.45.47.14:443 ESTABLISHED
TCP 10.30.9.120:50496 10.10.72.64:443 ESTABLISHED
TCP 10.30.9.120:50496 10.10.72.53 TIME_WAIT
TCP 10.30.9.120:50559 10.10.56.69:443 ESTABLISHED
TCP 10.30.9.120:50559 10.10.56.69:443 ESTABLISHED
TCP 10.30.9.120:50559 10.10.72.53 TIME_WAIT
TCP 10.30.9.120:50559 10.10.72.53 TIME_WAIT
TCP 10.30.9.120:50559 10.10.72.53 TIME_WAIT
TCP 10.30.9.120:50559 10.10.72.53 TIME_WAIT
TCP 10.30.9.120:505681 192.168.10.72.53 TIME_WAIT
TCP 10.30.9.120:50660 192.168.10.72.53 TIME_WAIT
TCP 10.30.9.120:50661 192.168.10.72.53 TIME_WAIT
TCP 10.30.9.120:50661 192.168.10.72.53 TIME_WAIT
TCP 10.30.9.120:5066
```

Figure 1: All TCP ports

G. Com	mand Prompt × +		
TCP	10.30.9.120:50602	192.168.10.87:53	TIME_WAIT
TCP	10.30.9.120:50603	192.168.10.87:53	TIME_WAIT
TCP	10.30.9.120:50606	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50607	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50608	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50609	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50612	44.208.215.0:443	ESTABLISHED
TCP	10.30.9.120:50613	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50614	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50615	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50616	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50617	104.18.32.47:443	ESTABLISHED
TCP	10.30.9.120:50626	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50627	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50628	44.211.21.184:443	ESTABLISHED
TCP	10.30.9.120:50629	44.211.21.184:443	ESTABLISHED
TCP	10.30.9.120:50636	52.188.247.144:443	ESTABLISHED
TCP	10.30.9.120:50637	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50638	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:52115	20.198.119.84:443	ESTABLISHED
TCP	10.30.9.120:54504	34.120.52.64:443	ESTABLISHED
TCP	10.30.9.120:56235	10.30.8.163:8008	ESTABLISHED
TCP	10.30.9.120:56250	10.30.8.163:8009	ESTABLISHED
TCP	10.30.9.120:56283	10.30.8.163:8008	ESTABLISHED
TCP	10.30.9.120:56284	10.30.8.163:8009	ESTABLISHED
TCP	10.30.9.120:56505	104.18.35.23:443	ESTABLISHED
TCP	10.30.9.120:58985	172.253.118.188:5228	ESTABLISHED
TCP	10.30.9.120:59004	20.249.115.161:443	ESTABLISHED
TCP	10.30.9.120:59067	20.212.88.117:443	ESTABLISHED
TCP	10.30.9.120:59295	20.198.118.190:443	ESTABLISHED
TCP	127.0.0.1:49670	127.0.0.1:49671	ESTABLISHED
TCP	127.0.0.1:49671	127.0.0.1:49670	ESTABLISHED
TCP	127.0.0.1:49672	127.0.0.1:49673	ESTABLISHED
TCP	127.0.0.1:49673	127.0.0.1:49672	ESTABLISHED
TCP	127.0.0.1:50640	127.0.0.1:15615	SYN_SENT
TCP	172.29.192.1:139	0.0.0.0:0	LISTENING
TCP	[::]:135	[::]:0	LISTENING
TCP	[::]:445	[::]:0	LISTENING
TCP	[::]:3306	[::]:0	LISTENING
TCP	[::]:7680	[::]:0	LISTENING
TCP	[::]:33060	[::]:0	LISTENING
TCP	[::]:49664	[::]:0	LISTENING
TCP	[::]:49665	[::]:0	LISTENING
TCP	[::]:49666	[::]:0	LISTENING
TCP	[::]:49667	[::]:0	LISTENING
TCP	[::]:49668	[::]:0	LISTENING
TCP	[::]:49674	[::]:0	LISTENING
TCP	[::1]:49669	[::]:0	LISTENING
TCP	[::1]:50639	[::1]:15615	SYN_SENT

Figure 2: All TCP ports

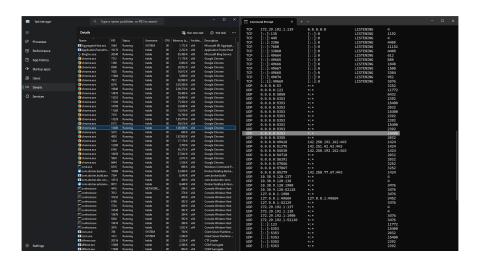


Figure 3: Found port and PID of chrome.

```
O.L. Command Prompt
 C:\Users\halde>netstat -an | findstr :80
ESTABLISHED
                                                                         20.198.119.84:443
108.159.80.97:443
18.207.38.36:443
52.44.135.157:443
34.239.230.199:443
3.224.82.178:443
104.18.32.47:443
                                                                                                                                ESTABLISHED
                                                                                                                                TIME_WAIT
ESTABLISHED
TIME_WAIT
                                                                                                                                TIME_WAIT
TIME_WAIT
ESTABLISHED
                    10.30.9.120:54273

10.30.9.120:54273

10.30.9.120:54273

10.30.9.120:59004

10.30.9.120:59067

10.30.9.120:59295

10.30.9.120:61688
     TCP
TCP
                                                                          52.203.61.236:443
52.203.61.236:443
                                                                                                                                ESTABLISHED
ESTABLISHED
                                                                          20.249.115.161:443
20.212.88.117:443
                                                                                                                                ESTABLISHED
ESTABLISHED
   TCP
TCP
TCP
TCP
UDP
UDP
                                                                          20.19.18.117:443

20.198.118.190:443

49.44.183.40:443

40.99.31.178:443

142.250.192.142:443

142.251.42.443
                                                                                                                                ESTARI TSHED
                    10.30.9.120:61689
0.0.0.0:49428
0.0.0.0:51375
                                                                                                                                ESTABLISHED
                                                                          142.251.42.443
142.250.192.142:443
142.250.77.67:443
142.250.192.42:443
142.250.77.67:443
     UDP
    UDP
                     0.0.0.0:60913
                     0.0.0.0:61174
0.0.0.0:65279
C:\Users\halde>netstat -an | findstr :67
 C:\Users\halde>netstat -an | findstr :68
 C:\Users\halde>netstat -an |
TCP 10.30.9.120:54243
TCP 10.30.9.120:54244
TCP 10.30.9.120:54249
                                                                          192.168.10.87:53
192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
                                                                                                                                TIME_WAIT
     TCP
TCP
                     10.30.9.120:54250
10.30.9.120:54255
                                                                          192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
                    10.30.9.120:54255

10.30.9.120:54256

10.30.9.120:54261

10.30.9.120:54270

10.30.9.120:54271

10.30.9.120:54274

10.30.9.120:54275

10.30.9.120:5428
     TCP
TCP
TCP
                                                                          192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
                                                                          192.168.10.87:53
192.168.10.87:53
192.168.10.87:53
192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
     TCP
TCP
TCP
TCP
                                                                                                                                TIME_WAIT
TIME_WAIT
TIME_WAIT
                    10.30.9.120:54283
10.30.9.120:54292
10.30.9.120:54293
10.30.9.120:54293
    TCP
TCP
TCP
TCP
                                                                          192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
                                                                          192.168.10.87:53
192.168.10.87:53
                                                                                                                                TIME_WAIT
     TCP
UDP
                     10.30.9.120:54297
0.0.0.0:53
                                                                           192.168.10.87:53
                                                                                                                                TIME_WAIT
     UDP
                     0.0.0.0:5353
0.0.0.0:5353
```

Figure 4:

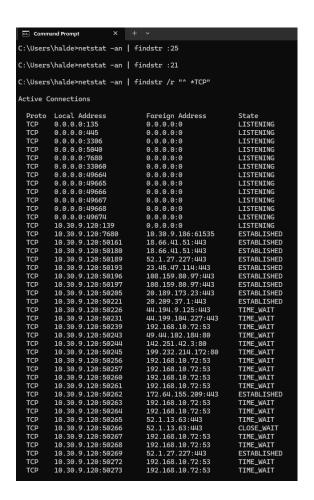


Figure 5:

	mand Prompt X	+ ∨	
es. Com	mand Prompt X		
TCP	10.30.9.120:50274	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50275	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50276	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50277	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50279	52.20.48.149:443	TIME_WAIT
TCP	10.30.9.120:50280	52.22.105.252:443	TIME_WAIT
TCP	10.30.9.120:50281	3.224.178.142:443	CLOSE_WAIT
TCP	10.30.9.120:50282	52.20.48.149:443	CLOSE_WAIT
TCP	10.30.9.120:50283	52.22.105.252:443	CLOSE_WAIT
TCP	10.30.9.120:50284	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50285	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50288	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50289	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50300	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50301	192.168.10.72:53	TIME_WAIT
TCP	10.30.9.120:50302	52.203.61.236:443	ESTABLISHED
TCP	10.30.9.120:50303	52.203.61.236:443	ESTABLISHED
TCP	10.30.9.120:52115	20.198.119.84:443 34.120.52.64:443	ESTABLISHED
TCP	10.30.9.120:54392 10.30.9.120:54504		ESTABLISHED
TCP TCP	10.30.9.120:54504	34.120.52.64:443 34.117.138.150:443	ESTABLISHED
TCP	10.30.9.120:54515	49.44.183.40:443	ESTABLISHED CLOSE WAIT
TCP	10.30.9.120:56235	10.30.8.163:8008	ESTABLISHED
TCP	10.30.9.120:56250	10.30.8.163:8008	ESTABLISHED
TCP	10.30.9.120:56283	10.30.8.163.8009	ESTABLISHED
TCP	10.30.9.120:56284	10.30.8.163.8009	ESTABLISHED
TCP	10.30.9.120:56505	104.18.35.23:443	ESTABLISHED
TCP	10.30.9.120:58985	172.253.118.188:5228	ESTABLISHED
TCP	10.30.9.120:59004	20.249.115.161:443	ESTABLISHED
TCP	10.30.9.120:59067	20.212.88.117:443	ESTABLISHED
TCP	10.30.9.120:59295	20.198.118.190:443	ESTABLISHED
TCP	127.0.0.1:49670	127.0.0.1:49671	ESTABLISHED
TCP	127.0.0.1:49671	127.0.0.1:49670	ESTABLISHED
TCP	127.0.0.1:49672	127.0.0.1:49673	ESTABLISHED
TCP	127.0.0.1:49673	127.0.0.1:49672	ESTABLISHED
TCP	172.29.192.1:139	0.0.0.0:0	LISTENING
TCP	[::]:135	[::]:0	LISTENING
TCP	[::]:445	[::]:0	LISTENING
TCP	[::]:3306	[::]:0	LISTENING
TCP	[::]:7680	[::]:0	LISTENING
TCP	[::]:33060	[::]:0	LISTENING
TCP	[::]:49664	[::]:0	LISTENING
TCP	[::]:49665	[::]:0	LISTENING
TCP	[::]:49666	[::]:0	LISTENING
TCP	[::]:49667	[::]:0	LISTENING
TCP	[::]:49668	[::]:0	LISTENING
TCP	[::]:49674	[::]:0	LISTENING
TCP UDP	[::1]:49669	[::]:0 *:*	LISTENING
UDP	0.0.0.0:53 0.0.0.0:123	*:* *:*	
UDP	0.0.0.0:5050	*:*	
UDP	0.0.0.0.3030	***	

Figure 6:

Figure 7:

□ Com	mand Prompt	+   •	
C:\User	s\halde>netstat -	an   findstr "TCP"	
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING
TCP	0.0.0.0:5040	0.0.0.0:0	LISTENING
TCP	0.0.0.0:7680	0.0.0.0:0	LISTENING
TCP	0.0.0.0:33060	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49664	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49665	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49666	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49667	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49668	0.0.0.0:0	LISTENING
TCP	0.0.0.0:49674	0.0.0.0:0	LISTENING
TCP	10.30.9.120:139		LISTENING
TCP	10.30.9.120:768		ESTABLISHED
TCP	10.30.9.120:501		TIME_WAIT
TCP	10.30.9.120:501		ESTABLISHED
TCP	10.30.9.120:504		ESTABLISHED
TCP	10.30.9.120:504		ESTABLISHED
TCP	10.30.9.120:504		CLOSE_WAIT
TCP	10.30.9.120:504		ESTABLISHED
TCP	10.30.9.120:504		CLOSE_WAIT
TCP	10.30.9.120:505		CLOSE_WAIT
TCP	10.30.9.120:505		CLOSE_WAIT
TCP	10.30.9.120:505		ESTABLISHED
TCP	10.30.9.120:505		ESTABLISHED
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		ESTABLISHED
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		ESTABLISHED
TCP	10.30.9.120:505		TIME_WAIT
TCP TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		TIME_WAIT TIME_WAIT
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:505		TIME_WAIT
TCP	10.30.9.120:506		TIME WAIT
TCP	10.30.9.120:506		TIME_WAIT
TCP	10.30.9.120:506		TIME_WAIT
TCP	10.30.9.120:506		TIME_WAIT
TCP	10.30.9.120:506		TIME WAIT
TCP	10.30.9.120:506		ESTABLISHED
TCP	10.30.9.120:506		TIME_WAIT
		•	

TCP 10.30.9.120:50601 192.168.10.87:53 TIME_WAIT TCP 10.30.9.120:50606 192.168.10.87:53 TIME_WAIT TCP 10.30.9.120:50606 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50606 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50606 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50607 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50608 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50609 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50626 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50628 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50638 102.168.10.72:53 TIME_WAIT TCP 10.30.9.120:50638 102.168.10.72:5				
TCP 10.30.9.120:596603 192.168.10.87:53 TIME_WAIT TCP 10.30.9.120:596607 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59608 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59608 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59609 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59612 4H.208.215.0:443 ESTABLISHED TCP 10.30.9.120:59614 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59627 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59627 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59628 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59637 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59637 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59638 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59658 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59668 192.10.30.8	TCP	10.30.9.120:50601	192.168.10.87:53	TIME_WAIT
TCP 10.30.9.120:59660	TCP	10.30.9.120:50602	192.168.10.87:53	TIME_WAIT
TCP 10.30.9.120:596698 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:596698 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59613 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59614 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59615 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59616 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59617 194.18.32.47:443 ESTABLISHED TCP 10.30.9.120:59627 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59627 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59627 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:59628 444.211.21.184:443 ESTABLISHED TCP 10.30.9.120:59628 444.211.21.184:443 ESTABLISHED TCP 10.30.9.120:59636 52.188.247.144:443 ESTABLISHED TCP 10.30.9.120:59638 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:56638 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:56638 192.168.10.72:53 TIME_WAIT TCP 10.30.9.120:56258 102.168.10.72:53 TIME_WAIT TCP 10.30.9.120:56258 102.30.8.163:8008 ESTABLISHED TCP 10.30.9.120:56258 102.30.8.163:8008 ESTABLISHED TCP 10.30.9.120:56258 102.30.8.163:8008 ESTABLISHED TCP 10.30.9.120:56284 102.30.8.163:8008 ESTABLISHED TCP 10.30.9.120:56284 102.30.8.163:8008 ESTABLISHED TCP 10.30.9.120:56284 102.30.8.163:8008 ESTABLISHED ESTABLISHED TCP 127.00.1:49670 ESTABLISHED ESTABLISHED TCP 127.00.1:49670 ESTABLISHED ESTABLISHED TCP 127.00.1:49670 ESTABLISHED	TCP	10.30.9.120:50603	192.168.10.87:53	TIME_WAIT
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Figure 8:

Figure 9:

## $\mathbf{Q2}$

- 1. When you browse the IIT Bhilai main page, how many GET requests are sent(How many of these GET requests are for embedded content, and how many are for the text)? Plot the IO graph for packets sent to iitbhilai.ac.in and packets received from iitbhilai.ac.in
- 2. For the response to your HTTP GET request, reconstruct the image using a hex editor.
- 3. Find the interpacket interval between multiple GET requests.
- $4.\ \,$  Find the throughput observed while browsing the IIT Bhilai site under two cases:
  - (a) When no other traffic is in the background.
  - (b) When a large file download is in progress.

The throughput calculation needs filtering only IIT Bhilai pages (from the GET request originated from your browser until the last response arrives at the end of the web page).

#### Answer:

1) In Windows cmd, I typed this command set SSLKEYLOGFILE=C:\Users\halde\SSLKEYS\sslkeys.log to create the environment variable file. Then in the TLS option of Wireshark's protocol under the preference tab, I gave the file path to (Pre)Master-Secret log file name. So it can decrypt and show HTTP packets.

Now I started wireshark for capturing and serf to IIT Bhilai's site and after some times stoped the capturing.

Now I added this filter **http.request.method** == "GET" in wireshark to see the GET requests. There are total 31 GET requests out of it total 23 are of embedded content and 8 are text content.

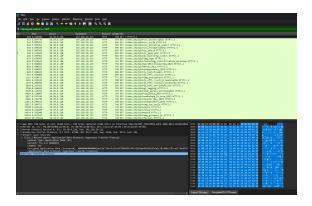


Figure 10: GET requests

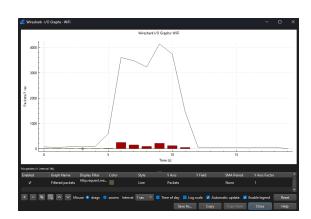


Figure 11: I/O graph

2)



Figure 12: Image reconstructed using hex editor.

3)

Figure 13: Interpacket interval between multiple GET requests.

4) a)

```
| Part | Dec | Content | Subdies | S
```

Figure 14: When no traffic is in the background

Now for throughput (without any traffic in the background) we have to find the total size of the packets,

```
which is = 719.55 * 49 = 35257.95 bytes.
```

Throughput = 35257.95/(11.442-5.346) = 35257.95/6.096 = 5783.784 bytes/sec.

b)

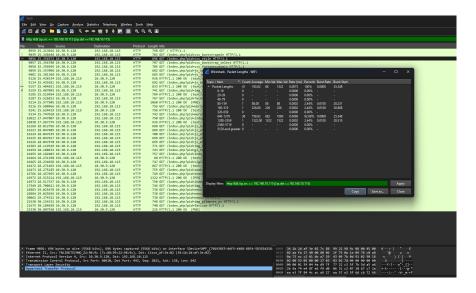


Figure 15: When there is traffic in the background

Now for throughput (with traffic in the background) we have to find the total size of the packets,

which is = 743.02 \* 41 = 30463.82 bytes.

Throughput = 30463.82/(30.808-25.213) = 30463.82/5.595 = 5444.829 bytes/sec.