

Q1

a)

The ones labeled UP, BROADCAST, RUNNING, and MULTICAST will provide the required IP address.

(ipv4) inet 192.168.32.83

(ipv6) inet6 fe80::7eb9:c812:b6a9:f9d8

```
iiitd@iiitd-HP-406-MT:~$ ifconfig
enp2s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.32.83 netmask 255.255.240.0 broadcast 192.168.47.255
    inet6 fe80::7eb9:c812:b6a9:f9d8 prefixlen 64 scopeid 0x20<link>
    ether ec:8e:b5:14:09:72 txqueuelen 1000 (Ethernet)
    RX packets 23161313 bytes 4004603001 (4.0 GB)
    RX errors 0 dropped 48925 overruns 0 frame 0
    TX packets 749136 bytes 105253413 (105.2 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 40025 bytes 4452847 (4.4 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 40025 bytes 4452847 (4.4 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

b)

103.25.231.150

They are different, because the public IP address, also known as the external IP address from your connection, is the Internet Protocol address displayed on the What Is My IP home page.

whereas an internal IP frequently begins with 10.0.0.*, 192.186.1.*, etc and are reserved by IANA, and not assigned as public or external IPs, which is the ip address shown for my local machine.

Q2

a)

```
iitd@iitd-HP-406-MT:~$ nslookup -type=soa www.google.com
Server:          127.0.0.53
Address:         127.0.0.53#53

Non-authoritative answer:
*** Can't find www.google.com: No answer

Authoritative answers can be found from:
google.com
    origin = ns1.google.com
    mail addr = dns-admin.google.com
    serial = 476050568
    refresh = 900
    retry = 900
    expire = 1800
    minimum = 60
ns1.google.com internet address = 216.239.32.10
ns1.google.com has AAAA address 2001:4860:4802:32::a
```

I used the `-type=soa` option to direct `nslookup` to display the authoritative name server because in order to receive an authoritative response, the authoritative (primary) name server must be given at the conclusion of the request.

b)

```
iitd@iitd-HP-406-MT:~$ nslookup -debug -type=aaaa www.google.com
Server:          127.0.0.53
Address:         127.0.0.53#53

-----
      QUESTIONS:
        www.google.com, type = AAAA, class = IN
      ANSWERS:
        -> www.google.com
            has AAAA address 2404:6800:4002:823::2004
            ttl = 122
      AUTHORITY RECORDS:
      ADDITIONAL RECORDS:
      -----

Non-authoritative answer:
Name:   www.google.com
Address: 2404:6800:4002:823::2004
```

```

iiitd@iiitd-HP-406-MT:~$ dig a www.google.com

; <<> DiG 9.18.1-1ubuntu1.1-Ubuntu <<> a www.google.com
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 9856
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 65494
;; QUESTION SECTION:
;www.google.com.                IN      A

;; ANSWER SECTION:
www.google.com.                27      IN      A      142.250.194.164

;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Fri Sep 23 14:31:37 IST 2022
;; MSG SIZE rcvd: 59

```

A packet's or data's time-to-live (TTL) number indicates how long it should stay on a computer or network before being deleted. A TTL value is given to each data packet. The TTL value decreases by one each time a data packet completes a hop, therefore

Using the command

`dig +nocmd +noall +answer +ttl units A www.google.com`

27 sec came out to be the time to live. Hence, this is the time after which ttl value will also expire.

Q3.

```
C:\Users\Dell>tracert google.in

Tracing route to google.in [216.58.221.36]
over a maximum of 30 hops:

  0  5 ms  6 ms  4 ms  192.168.48.254
  1 52 ms  2 ms  2 ms  auth.iiitd.edu.in [192.168.1.99]
  2  3 ms  7 ms  3 ms  180.151.15.241.reverse.spectranet.in [180.151.15.241]
  3 12 ms  5 ms  4 ms  72.14.194.202
  4  5 ms  4 ms  5 ms  108.170.251.97
  5  6 ms  6 ms  7 ms  216.239.57.33
  6  4 ms  4 ms  5 ms  kul01s10-in-f36.1e100.net [216.58.221.36]

Trace complete.
```

a)

There are 6 intermediates between src and dest

Intermediate Hosts	Average Latency
192.168.48.254	$(5+6+4)/3 = 5\text{ms}$
192.168.1.99	$(52+2+2)/3 = 18.66\text{ ms}$
180.151.15.241	$(3+7+3)/3 = 4.33\text{ ms}$
72.14.194.202	$(12+5+4)/3 = 7\text{ ms}$
108.170.251.97	$(5+4+5)/3 = 4.66\text{ ms}$
216.239.57.33	$(6+6+7)/3 = 6.33\text{ ms}$

b)

ping -n 100 google.in

```
C:\Users\Dell>ping -n 100 google.in

Pinging google.in [142.251.42.100] with 32 bytes of data:
Reply from 142.251.42.100: bytes=32 time=49ms TTL=116
Reply from 142.251.42.100: bytes=32 time=28ms TTL=116
Reply from 142.251.42.100: bytes=32 time=140ms TTL=116
Reply from 142.251.42.100: bytes=32 time=90ms TTL=116
Reply from 142.251.42.100: bytes=32 time=25ms TTL=116
Reply from 142.251.42.100: bytes=32 time=22ms TTL=116
Reply from 142.251.42.100: bytes=32 time=29ms TTL=116
Reply from 142.251.42.100: bytes=32 time=88ms TTL=116
Reply from 142.251.42.100: bytes=32 time=107ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=50ms TTL=116
Reply from 142.251.42.100: bytes=32 time=40ms TTL=116
Reply from 142.251.42.100: bytes=32 time=50ms TTL=116
Reply from 142.251.42.100: bytes=32 time=24ms TTL=116
```

```
Reply from 142.251.42.100: bytes=32 time=22ms TTL=116
Reply from 142.251.42.100: bytes=32 time=27ms TTL=116
Reply from 142.251.42.100: bytes=32 time=29ms TTL=116
Reply from 142.251.42.100: bytes=32 time=25ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=47ms TTL=116
Reply from 142.251.42.100: bytes=32 time=22ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=27ms TTL=116
Reply from 142.251.42.100: bytes=32 time=62ms TTL=116
Reply from 142.251.42.100: bytes=32 time=22ms TTL=116
Reply from 142.251.42.100: bytes=32 time=24ms TTL=116
Reply from 142.251.42.100: bytes=32 time=21ms TTL=116
Reply from 142.251.42.100: bytes=32 time=23ms TTL=116
Reply from 142.251.42.100: bytes=32 time=34ms TTL=116

Ping statistics for 142.251.42.100:
    Packets: Sent = 100, Received = 100, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 21ms, Maximum = 188ms, Average = 39ms
```

Average One Way Latency will be half of the Average Round Trip Latency.

Average latency = $39 / 2$ ms = 19.5 ms

c)

ping -n 100 columbia.edu

```
Minimum = 21ms, Maximum = 188ms, Average = 39ms

C:\Users\Dell>ping -n 100 columbia.edu

Pinging columbia.edu [128.59.105.24] with 32 bytes of data:
Reply from 128.59.105.24: bytes=32 time=599ms TTL=234
Reply from 128.59.105.24: bytes=32 time=445ms TTL=234
Reply from 128.59.105.24: bytes=32 time=280ms TTL=234
Reply from 128.59.105.24: bytes=32 time=269ms TTL=234
Reply from 128.59.105.24: bytes=32 time=385ms TTL=234
Reply from 128.59.105.24: bytes=32 time=259ms TTL=234
Reply from 128.59.105.24: bytes=32 time=279ms TTL=234
Reply from 128.59.105.24: bytes=32 time=348ms TTL=234
Reply from 128.59.105.24: bytes=32 time=245ms TTL=234
Reply from 128.59.105.24: bytes=32 time=438ms TTL=234
Reply from 128.59.105.24: bytes=32 time=539ms TTL=234
Reply from 128.59.105.24: bytes=32 time=551ms TTL=234
Reply from 128.59.105.24: bytes=32 time=253ms TTL=234
Request timed out.
Reply from 128.59.105.24: bytes=32 time=254ms TTL=234
Reply from 128.59.105.24: bytes=32 time=302ms TTL=234
Reply from 128.59.105.24: bytes=32 time=274ms TTL=234
Reply from 128.59.105.24: bytes=32 time=615ms TTL=234
Reply from 128.59.105.24: bytes=32 time=607ms TTL=234
Reply from 128.59.105.24: bytes=32 time=388ms TTL=234
Reply from 128.59.105.24: bytes=32 time=375ms TTL=234
Reply from 128.59.105.24: bytes=32 time=245ms TTL=234
Reply from 128.59.105.24: bytes=32 time=358ms TTL=234
Reply from 128.59.105.24: bytes=32 time=345ms TTL=234
Reply from 128.59.105.24: bytes=32 time=317ms TTL=234
Reply from 128.59.105.24: bytes=32 time=300ms TTL=234
Reply from 128.59.105.24: bytes=32 time=408ms TTL=234
Reply from 128.59.105.24: bytes=32 time=303ms TTL=234
Reply from 128.59.105.24: bytes=32 time=302ms TTL=234
Reply from 128.59.105.24: bytes=32 time=243ms TTL=234
Reply from 128.59.105.24: bytes=32 time=390ms TTL=234
Reply from 128.59.105.24: bytes=32 time=242ms TTL=234
Reply from 128.59.105.24: bytes=32 time=268ms TTL=234
Reply from 128.59.105.24: bytes=32 time=243ms TTL=234
Reply from 128.59.105.24: bytes=32 time=263ms TTL=234
Reply from 128.59.105.24: bytes=32 time=257ms TTL=234
Reply from 128.59.105.24: bytes=32 time=352ms TTL=234
Reply from 128.59.105.24: bytes=32 time=348ms TTL=234
Reply from 128.59.105.24: bytes=32 time=338ms TTL=234
Reply from 128.59.105.24: bytes=32 time=243ms TTL=234
Reply from 128.59.105.24: bytes=32 time=326ms TTL=234
Reply from 128.59.105.24: bytes=32 time=318ms TTL=234
Reply from 128.59.105.24: bytes=32 time=304ms TTL=234
Reply from 128.59.105.24: bytes=32 time=1935ms TTL=234
Reply from 128.59.105.24: bytes=32 time=325ms TTL=234
Reply from 128.59.105.24: bytes=32 time=514ms TTL=234
Reply from 128.59.105.24: bytes=32 time=248ms TTL=234

Ping statistics for 128.59.105.24:
    Packets: Sent = 100, Received = 97, Lost = 3 (3% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 242ms, Maximum = 1947ms, Average = 358ms
```

Average One Way latency= $358/2$ ms= 179 ms

d)

No,

Latency measures the entire round trip of that signal, whereas ping only measures one direction.

The Ping Latencies are more or less equal to the Average Latencies calculated in a)

Their sum is 45.98 ms

While the average latency for google.in was 19.5 ms

There is a lot of gap between the two, this is because of the different default intervals used by the two tools. Ping uses a 1 transaction per second interval. There is a lot of overhead in calculation using traceroute, thus the average comes out to be half as much as the ping latencies sum of the intermediates.

e)Yes, 18.66 ms is maximum ping latency for intermediate host, which is close to the answer obtained in b), because the maximum latency for one particular case will be much closer in terms of computation than the overall sum of all the intermediates, which might be because of network congestion or traffic.

f)

```
iiitd@iiitd-HP-406-MT:~$ traceroute columbia.edu
traceroute to columbia.edu (128.59.105.24), 30 hops max, 60 byte packets
 1 192.168.32.254 (192.168.32.254) 10.585 ms 10.679 ms 10.759 ms
 2 vpn.iiitd.edu.in (192.168.1.99) 0.219 ms 0.162 ms 0.297 ms
 3 103.25.231.1 (103.25.231.1) 1.383 ms 0.839 ms 0.782 ms
 4 10.1.209.201 (10.1.209.201) 37.876 ms 36.799 ms 36.392 ms
 5 10.1.200.137 (10.1.200.137) 54.386 ms 54.332 ms 28.969 ms
 6 10.255.238.254 (10.255.238.254) 41.962 ms 10.255.238.122 (10.255.238.122) 47.302 ms 27.018 ms
 7 180.149.48.18 (180.149.48.18) 37.619 ms 54.603 ms 38.064 ms
 8 180.149.48.2 (180.149.48.2) 143.233 ms 148.624 ms 180.149.48.6 (180.149.48.6) 147.849 ms
 9 180.149.48.20 (180.149.48.20) 144.768 ms 164.072 ms 180.149.48.13 (180.149.48.13) 246.899 ms
10 180.149.48.13 (180.149.48.13) 247.983 ms 243.524 ms 265.029 ms
11 columbia.nyc-9208.nysernet.net (199.109.4.14) 235.485 ms 237.917 ms nyc-9208-I2-NEWY.nysernet.net (199.109.5.1)
    244.585 ms
12 cc-core-1-x-nyser32-gw-1.net.columbia.edu (128.59.255.5) 243.452 ms columbia.nyc-9208.nysernet.net (199.109.4.14)
    231.623 ms cc-core-1-x-nyser32-gw-1.net.columbia.edu (128.59.255.5) 240.638 ms
13 cc-conc-1-x-cc-core-1.net.columbia.edu (128.59.255.21) 267.885 ms 245.772 ms 244.494 ms
14 columbiauniversity.org (128.59.105.24) 263.448 ms cc-conc-1-x-cc-core-1.net.columbia.edu (128.59.255.21) 244.74
    6 ms 244.401 ms
```

The number of intermediate hops between source to dest for columbia.edu are 13, while they were just 6 for google.in

Latency difference between google.in and columbia.edu is because the amount of time it takes for data to move between two points on a network is known as latency. The distance between client devices making requests and the servers responding to those requests, is one of the main causes of network latency.

Columbia.edu is hosted in New York, while google.in is hosted in Delhi, India, thus there is a lot of difference in the average latency mainly due to the difference in number of hops between the source and the destination .

Q4)

```
iiitd@iiitd-HP-406-MT:~$ sudo ifconfig lo down
[sudo] password for iiitd:
iiitd@iiitd-HP-406-MT:~$ ping 127.0.0.1
PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data.
^C
--- 127.0.0.1 ping statistics ---
45 packets transmitted, 0 received, 100% packet loss, time 45044ms
```

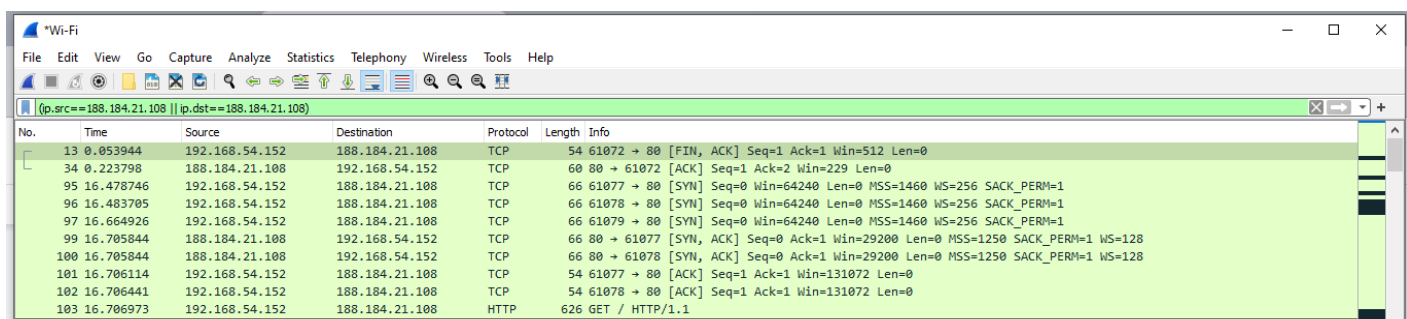
In the worst case scenario, 100% packet loss, you might even lose access to the Internet. It can be brought on by a variety of things, particularly network congestion.

When no packet you send reaches its destination, 100% packet loss has occurred. 100% packet loss may also be a sign that the host you are attempting to connect to is offline or not connected for some other reason.

I tried the last step, which temporarily disconnected the connection.

Q5)

```
C:\Users\Dell>nslookup http://info.cern.ch
Server: ns3.iiitd.edu.in
Address: 192.168.1.8
```



The image shows a Wireshark packet capture window titled '*Wi-Fi'. The filter bar at the top shows '(ip.src==188.184.21.108 || ip.dst==188.184.21.108)'. The packet list table below shows the following data:

No.	Time	Source	Destination	Protocol	Length	Info
13	0.053944	192.168.54.152	188.184.21.108	TCP	54	61072 → 80 [FIN, ACK] Seq=1 Ack=1 Win=512 Len=0
34	0.223798	188.184.21.108	192.168.54.152	TCP	60	80 → 61072 [ACK] Seq=1 Ack=2 Win=229 Len=0
95	16.478746	192.168.54.152	188.184.21.108	TCP	66	61077 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
96	16.483705	192.168.54.152	188.184.21.108	TCP	66	61078 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
97	16.664926	192.168.54.152	188.184.21.108	TCP	66	61079 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
99	16.705844	188.184.21.108	192.168.54.152	TCP	66	80 → 61077 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1250 SACK_PERM=1 WS=128
100	16.705844	188.184.21.108	192.168.54.152	TCP	66	80 → 61078 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1250 SACK_PERM=1 WS=128
101	16.706114	192.168.54.152	188.184.21.108	TCP	54	61077 → 80 [ACK] Seq=1 Ack=1 Win=131072 Len=0
102	16.706441	192.168.54.152	188.184.21.108	TCP	54	61078 → 80 [ACK] Seq=1 Ack=1 Win=131072 Len=0
103	16.706973	192.168.54.152	188.184.21.108	HTTP	626	GET / HTTP/1.1

*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

(ip.src==188.184.21.108 || ip.dst==188.184.21.108)&&http

No.	Time	Source	Destination	Protocol	Length	Info
103	16.706973	192.168.54.152	188.184.21.108	HTTP	626	GET / HTTP/1.1
107	17.322320	188.184.21.108	192.168.54.152	HTTP	182	HTTP/1.1 304 Not Modified
3373	218.913885	192.168.54.152	188.184.21.108	HTTP	626	GET / HTTP/1.1

HTTP request packets

*Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

(ip.dst==188.184.21.108) && http

No.	Time	Source	Destination	Protocol	Length	Info
103	16.706973	192.168.54.152	188.184.21.108	HTTP	626	GET / HTTP/1.1
3373	218.913885	192.168.54.152	188.184.21.108	HTTP	626	GET / HTTP/1.1

○ HTTP request type- GET

○ User agent type

```

TCP payload (572 bytes)
v Hypertext Transfer Protocol
  > GET / HTTP/1.1\r\n
    Host: info.cern.ch\r\n
    Connection: keep-alive\r\n
    Cache-Control: max-age=0\r\n
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: en-IN,en-GB;q=0.9,en-US;q=0.8,en;q=0.7,hi;q=0.6\r\n
    If-None-Match: "286-4f1aadb3105c0"\r\n
    If-Modified-Since: Wed, 05 Feb 2014 16:00:31 GMT\r\n
    \r\n
    [Full request URI: http://info.cern.ch/]
    [HTTP request 1/1]

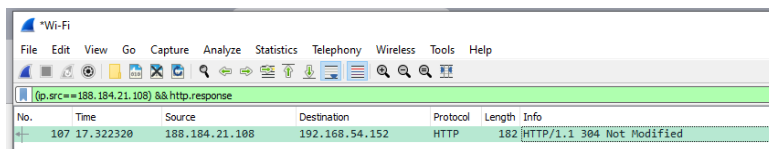
```

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/105.0.0.0 Safari/537.36

- HTTP request packet's URI

[Full request URI: <http://info.cern.ch/>]

b)



The image shows a Wireshark packet capture window titled "Wi-Fi". The packet list pane shows a single packet, No. 107, at time 17.322320, from source 188.184.21.108 to destination 192.168.54.152, protocol HTTP, length 182. The packet details pane shows the selected packet is an HTTP response, status 304 Not Modified.

No.	Time	Source	Destination	Protocol	Length	Info
107	17.322320	188.184.21.108	192.168.54.152	HTTP	182	HTTP/1.1 304 Not Modified

HTTP response code: 304

- HTTP response description - Not Modified
- Name and version of the web server- Apache HTTP server, HTTP/1.1

Topic / Item	Count	Average	Min Val	Max Val	Rate (ms)	Percent	Burst Rate	Burst Start
▼ Total HTTP Packets	31				0.0001	100%	0.0100	9.656
Other HTTP Packets	0				0.0000	0.00%	-	-
▼ HTTP Response Packets	0				0.0000	0.00%	-	-
???: broken	0				0.0000		-	-
5xx: Server Error	0				0.0000		-	-
4xx: Client Error	0				0.0000		-	-
3xx: Redirection	0				0.0000		-	-
2xx: Success	0				0.0000		-	-
1xx: Informational	0				0.0000		-	-
▼ HTTP Request Packets	31				0.0001	100.00%	0.0100	9.656
SEARCH	20				0.0001	64.52%	0.0100	46.901
GET	11				0.0000	35.48%	0.0100	9.656

Persistent due to the fact that only one TCP connection was used for sending and receiving multiple HTTP requests and responses as opposed to creating separate connections for each request and response pair.

Q6

a) netstat -o

```

C:\Users\Dell>netstat -o

Active Connections

Proto Local Address           Foreign Address         State               PID
TCP   127.0.0.1:49669          DESKTOP-UB7ECIT:49670  ESTABLISHED        4760
TCP   127.0.0.1:49670          DESKTOP-UB7ECIT:49669  ESTABLISHED        4760
TCP   127.0.0.1:49671          DESKTOP-UB7ECIT:49672  ESTABLISHED        4760
TCP   127.0.0.1:49672          DESKTOP-UB7ECIT:49671  ESTABLISHED        4760
TCP   192.168.54.152:54477     sf-in-f188:5228        ESTABLISHED        5308
TCP   192.168.54.152:54493     180.149.52.216:https    CLOSE_WAIT         10480
TCP   192.168.54.152:54494     a23-49-50-49:https      CLOSE_WAIT         10480
TCP   192.168.54.152:54495     a23-15-34-35:https      CLOSE_WAIT         10480
TCP   192.168.54.152:54496     a23-15-34-35:https      CLOSE_WAIT         10480
TCP   192.168.54.152:54497     a23-15-34-35:https      CLOSE_WAIT         10480
TCP   192.168.54.152:54498     180.149.52.216:https    CLOSE_WAIT         10480
TCP   192.168.54.152:54502     88:https                ESTABLISHED        5308
TCP   192.168.54.152:54612     del11s11-in-f10:https   ESTABLISHED        10468
TCP   192.168.54.152:54613     del11s18-in-f10:https   ESTABLISHED        10468
TCP   192.168.54.152:54614     del11s18-in-f10:https   ESTABLISHED        10468
TCP   192.168.54.152:54630     117.18.232.200:https    CLOSE_WAIT         8016

```

b) Netstat -no -p TCP 188.184.21.108

```
C:\Users\Dell>netstat -no -p TCP 188.184.21.108
```

Active Connections

Proto	Local Address	Foreign Address	State	PID
TCP	127.0.0.1:49669	127.0.0.1:49670	ESTABLISHED	4760
TCP	127.0.0.1:49670	127.0.0.1:49669	ESTABLISHED	4760
TCP	127.0.0.1:49671	127.0.0.1:49672	ESTABLISHED	4760
TCP	127.0.0.1:49672	127.0.0.1:49671	ESTABLISHED	4760
TCP	192.168.54.152:54477	74.125.24.188:5228	ESTABLISHED	5308
TCP	192.168.54.152:54494	23.49.50.49:443	CLOSE_WAIT	10480
TCP	192.168.54.152:54502	35.227.248.88:443	ESTABLISHED	5308
TCP	192.168.54.152:54630	117.18.232.200:443	CLOSE_WAIT	8016
TCP	192.168.54.152:54881	180.149.52.216:443	CLOSE_WAIT	10480
TCP	192.168.54.152:54883	180.149.52.216:443	CLOSE_WAIT	10480
TCP	192.168.54.152:54884	180.149.52.216:443	CLOSE_WAIT	10480
TCP	192.168.54.152:54885	23.15.34.35:443	CLOSE_WAIT	10480
TCP	192.168.54.152:54934	35.241.9.51:443	TIME_WAIT	0
TCP	192.168.54.152:54936	34.107.254.252:443	TIME_WAIT	0
TCP	192.168.54.152:54958	199.232.254.114:443	ESTABLISHED	5308
TCP	192.168.54.152:54973	34.107.148.139:443	TIME_WAIT	0
TCP	192.168.54.152:54984	34.120.155.137:443	TIME_WAIT	0
TCP	192.168.54.152:54991	34.98.64.218:443	TIME_WAIT	0
TCP	192.168.54.152:55016	35.227.252.103:443	TIME_WAIT	0
TCP	192.168.54.152:60112	142.250.182.170:443	ESTABLISHED	10468
TCP	192.168.54.152:60116	20.198.118.190:443	ESTABLISHED	4664
TCP	192.168.54.152:60124	5.9.70.141:443	ESTABLISHED	4288
TCP	192.168.54.152:60187	34.95.81.168:443	TIME_WAIT	0
TCP	192.168.54.152:60195	34.102.163.6:443	TIME_WAIT	0
TCP	192.168.54.152:60274	35.227.202.26:443	TIME_WAIT	0
TCP	192.168.54.152:60276	185.184.8.90:443	ESTABLISHED	5308
TCP	192.168.54.152:60352	130.211.23.194:443	TIME_WAIT	0
TCP	192.168.54.152:60382	35.208.249.213:443	TIME_WAIT	0
TCP	192.168.54.152:60390	35.190.80.1:443	TIME_WAIT	0
TCP	192.168.54.152:60417	142.250.192.229:443	ESTABLISHED	5308

