














1. Get the public IP address of your laptop.

```
user1@lin039: ~  
user1@lin039: /etc  
(base) user1@lin039:~$ echo $(curl https://ipinfo.io/ip)  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
100 14 100 14 0 0 34 0 --:--:-- --:--:-- --:--:-- 34  
203.81.243.245
```

2. Get list of SSIDs order by strength

```
user1@lin039: ~  
user1@lin039: /etc  
(base) user1@lin039:~$ nmcli -p device wifi list  
=====Wi-Fi scan list (wlp0s20f3)=====  
=====  
IN-USE BSSID SSID MODE CHAN RATE SIGNAL BARS SECURITY  
-----  
* 60:32:B1:0F:14:45 Home_2.4Ghz Infra 3 270 Mbit/s 100  WPA2  
60:32:B1:0F:14:47 Home_5G Infra 36 135 Mbit/s 90  WPA2  
BE:62:D2:5E:90:B0 www.excitel.com Infra 13 270 Mbit/s 55  WPA1 WPA2  
00:04:56:A3:41:81 AnOkIt-ss3ccA-Eth3r_CP3 Infra 5 130 Mbit/s 54  WPA2 802.1X  
BC:62:D2:5E:90:B0 Home-4G Infra 13 270 Mbit/s 54  WPA1 WPA2  
7C:A9:6B:19:2E:20 elsh4G Infra 1 130 Mbit/s 49  WPA1 WPA2  
7E:A9:6B:19:2E:20 www.excitel.com Infra 1 130 Mbit/s 49  WPA1 WPA2  
BC:62:D2:5E:90:B1 Neeraj Infra 5 270 Mbit/s 45  WPA1 WPA2  
BC:62:D2:5E:90:B1 Home-5G Infra 44 270 Mbit/s 37  WPA1 WPA2  
7C:A9:6B:19:2E:21 elsh5G Infra 36 270 Mbit/s 30  WPA1 WPA2  
0C:D2:B5:50:02:CA Career Infra 6 135 Mbit/s 22  WPA2  
A6:D8:A1:D9:37:A6 vivo 1819 Infra 6 117 Mbit/s 22  WPA2  
D8:32:14:00:0F:01 Password changed 😊😊 Infra 11 270 Mbit/s 17  WPA1 WPA2  
lines 1-18/18 (END)
```

3. Get the password of SSID which is connected

```
user1@lin039: ~  
user1@lin039: /etc  
(base) user1@lin039:~$ nmcli -s connection show $(iwgetid -r) | grep "psk:"  
802-11-wireless-security.psk: devops@123  
(base) user1@lin039:~$
```

4. Delete previously stored SSID (ruchishivani). It should be there on your setup laptop.

```
user1@lin039: ~  
user1@lin039: /etc  
(base) user1@lin039:~$ nmcli connection show  
NAME UUID TYPE DEVICE  
Home_5G eb3ce6b4-4c99-43bb-9d35-d1099c65b624 wifi wlp0s20f3  
docker0 d239fd78-f53c-4f24-a6bc-8b7db3bf4eee bridge docker0  
Career b4b335e9-a575-4a1c-b70c-b60a143be817 wifi --  
G c07c23cb-4027-48f8-a77b-1b45c8fe324f wifi --  
Neeraj 66dc7c36-d4a9-4ee2-b63e-69236f8e254e wifi --  
ruchishivani cdaf2bb4-26df-4c7b-b0e0-c1477ac8b283 wifi --  
Wired connection 1 ac9f5772-8a98-3b25-91aa-faa2fe4eb1e2 ethernet --  
(base) user1@lin039:~$ nmcli connection delete ruchishivani  
Connection 'ruchishivani' (cdfaf2bb4-26df-4c7b-b0e0-c1477ac8b283) successfully deleted.  
(base) user1@lin039:~$ nmcli connection show  
NAME UUID TYPE DEVICE  
Home_5G eb3ce6b4-4c99-43bb-9d35-d1099c65b624 wifi wlp0s20f3  
docker0 d239fd78-f53c-4f24-a6bc-8b7db3bf4eee bridge docker0  
Career b4b335e9-a575-4a1c-b70c-b60a143be817 wifi --  
G c07c23cb-4027-48f8-a77b-1b45c8fe324f wifi --  
Neeraj 66dc7c36-d4a9-4ee2-b63e-69236f8e254e wifi --  
Wired connection 1 ac9f5772-8a98-3b25-91aa-faa2fe4eb1e2 ethernet --
```

5. Take a access log file which is in logfmt find unique IP addresses, find IP address and how many requests been made, find how many non 200 responses etc... We can give the access log and we can come up with more questions on that file

```
user1@lin039: ~/Desktop/practice/linux/bp1/6
user1@lin039: ~/Desktop/practice/linux/bp1/6$ curl https://raw.githubusercontent.com/wso2/product-das/master/modules/samples/publishers/httpd-logs/resources/access.log > access.log
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 329k 100 329k    0     0  893k      0 --:--:-- --:--:-- --:--:-- 893k
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ # access log fetched and stored
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ awk '{print $1}' access.log | sort -g | uniq > unique_ip_addresses.txt
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ wc -l unique_ip_addresses.txt
448 unique_ip_addresses.txt
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ # 448 unique ip addresses
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ awk '{print $1}' access.log | sort -g | uniq -c | awk '{print $2,$1}' > num_of_req_by_each_ip_addr.txt
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ head -5 num_of_req_by_each_ip_addr.txt
1.202.218.8 130
31.11.220.254 16
32.64.18.215 1
37.59.131.9 1
37.59.165.55 1
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ # number of request recieved from each id address stored
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ cat access.log | sed -E 's/"[^"]+"//g' | awk '{print $6}' | sort -g | uniq -c | awk '{print $2,$1}' > req_http_code_freq.txt
awk: line 1: syntax error at or near print
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ cat access.log | sed -E 's/"[^"]+"//g' | awk '{print $6}' | sort -g | uniq -c | awk '{print $2,$1}' > req_http_code_freq.txt
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$ cat req_http_code_freq.txt
200 1403
301 4
304 2
404 699
(base) user1@lin039:~/Desktop/practice/linux/bp1/6$
```