

# ASSIGNMENT 1

## 1. IFCONFIG

```
es  Terminal  Sat 18:38
neo@neo-HP-Notebook: ~
File Edit View Search Terminal Help
(base) neo@neo-HP-Notebook:~$ ifconfig
enp1s0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether 3c:52:82:8b:7a:de  txqueuelen 1000  (Ethernet)
        RX packets 0  bytes 0 (0.0 B)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 0  bytes 0 (0.0 B)
        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 13196  bytes 1257032 (1.2 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 13196  bytes 1257032 (1.2 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlo1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 192.168.43.22  netmask 255.255.255.0  broadcast 192.168.43.255
    inet6 2402:8100:3097:8300:b91c:40a5:17e5:5292  prefixlen 64  scopeid 0x0<global>
    inet6 2402:8100:3097:8300:dd7b:280d:6506:dc23  prefixlen 64  scopeid 0x0<global>
    inet6 fe80::6cc5:53ed:2924:7d96  prefixlen 64  scopeid 0x20<link>
    ether 3c:95:09:87:4b:63  txqueuelen 1000  (Ethernet)
    RX packets 188197  bytes 218349767 (218.3 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 123533  bytes 25138685 (25.1 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

(base) neo@neo-HP-Notebook:~$
```

## 2. HOSTNAME and WHOAMI

```
neo@neo-HP-Notebook: ~
File Edit View Search Terminal Help
(base) neo@neo-HP-Notebook:~$ hostname
neo-HP-Notebook
(base) neo@neo-HP-Notebook:~$ whoami
neo
(base) neo@neo-HP-Notebook:~$
```

### 3. NETSTAT

```
neo@neo-HP-Notebook: ~  
File Edit View Search Terminal Help  
(base) neo@neo-HP-Notebook:~$ netstat  
Active Internet connections (w/o servers)  
Proto Recv-Q Send-Q Local Address           Foreign Address         State  
tcp        0      0 neo-HP-Notebook:40760   ec2-52-36-163-40.:https ESTABLISHED  
tcp        0      0 neo-HP-Notebook:48084   bom12s03-in-f14.1:https TIME_WAIT  
tcp6       0      0 neo-HP-Notebook:37724   whatsapp-cdn6-shv:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:56182   bom05s12-in-x0e.1:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:37718   whatsapp-cdn6-shv:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:60238   bom05s10-in-x03.1:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:49604   bom05s15-in-x0a.1:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:47530   bom07s10-in-x0e.1:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:53358   2404:6800:4003:c0:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:41622   bom05s11-in-x03.1e:http ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:43162   bom07s15-in-x0e.1:https ESTABLISHED  
tcp6       0      0 neo-HP-Notebook:41616   bom05s11-in-x03.1e:http ESTABLISHED  
Active UNIX domain sockets (w/o servers)  
Proto RefCnt Flags               Type               State              I-Node  Path  
unix    2      [ ]                 DGRAM                
27515    /run/user/1000/systemd/notify  
unix    2      [ ]                 DGRAM                
24997    /run/user/121/systemd/notify  
unix    3      [ ]                 DGRAM                
1331     /run/systemd/notify  
unix    9      [ ]                 DGRAM                
1346     /run/systemd/journal/socket  
unix   23      [ ]                 DGRAM                
1351     /run/systemd/journal/dev-log  
unix    2      [ ]                 DGRAM                
1363     /run/systemd/journal/syslog  
unix    2      [ ]                 DGRAM                
292631   /run/wpa_supplicant/wlo1  
unix    3      [ ]                 STREAM             CONNECTED          40191   /run/systemd/journal/stdout  
unix    3      [ ]                 STREAM             CONNECTED          28766   @/tmp/dbus-s5PNIQRM  
unix    3      [ ]                 STREAM             CONNECTED          24136     
unix    3      [ ]                 STREAM             CONNECTED          309358    
unix    3      [ ]                 STREAM             CONNECTED          31271   /run/systemd/journal/stdout  
unix    3      [ ]                 STREAM             CONNECTED          27143    
unix    3      [ ]                 STREAM             CONNECTED          23809    
unix    3      [ ]                 STREAM             CONNECTED          308512    
unix    3      [ ]                 STREAM             CONNECTED          31423   /run/systemd/journal/stdout  
unix    3      [ ]                 STREAM             CONNECTED          30527   /run/user/1000/bus  
unix    3      [ ]                 STREAM             CONNECTED          33797   @/tmp/.ICE-unix/1353
```

### 4. ROUTE

```
neo@neo-HP-Notebook: ~  
File Edit View Search Terminal Help  
(base) neo@neo-HP-Notebook:~$ route  
Kernel IP routing table  
Destination      Gateway           Genmask           Flags Metric Ref    Use Iface  
default          _gateway         0.0.0.0           UG    600    0      0 wlo1  
link-local       0.0.0.0          255.255.0.0       U     1000    0      0 wlo1  
192.168.43.0     0.0.0.0          255.255.255.0     U     600    0      0 wlo1  
(base) neo@neo-HP-Notebook:~$
```

## 5 TRACEPATH

```
neo@neo-HP-Notebook: ~  
File Edit View Search Terminal Help  
(base) neo@neo-HP-Notebook:~$ tracepath google.com  
1?: [LOCALHOST] 0.022ms pmtu 1400  
1: 2402:8100:3097:8300::af 1.975ms  
1: 2402:8100:3097:8300::af 2.852ms  
2: no reply  
3: 2402:8100:1:0:80::300 72.538ms  
4: 2402:8100:1:0:29:1:0:3d 58.929ms  
5: ??? 835.787ms asymm 6  
6:  
??? 898.318ms asymm 7  
7: no reply  
8: ??? 54.154ms asymm 11  
9: no reply  
10: no reply  
11: no reply  
12: no reply  
13: no reply  
14: no reply  
15: no reply  
16: no reply  
17: no reply  
18: no reply  
19: no reply  
20: no reply  
21: no reply  
22: no reply  
23: no reply  
24: no reply  
25: no reply  
26: no reply  
27: no reply  
28: no reply  
29: no reply  
30: no reply  
Too many hops: pmtu 1400
```

## 6. NSLOOKUP

```
neo@neo-HP-Notebook: ~  
File Edit View Search Terminal Help  
(base) neo@neo-HP-Notebook:~$ nslookup google.com  
Server: 127.0.0.53  
Address: 127.0.0.53#53  
  
Non-authoritative answer:  
Name: google.com  
Address: 216.58.203.206  
Name: google.com  
Address: 2404:6800:4009:803::200e  
  
(base) neo@neo-HP-Notebook:~$
```

## 7. ARP

```
File Edit View Search Terminal Help
neo@neo-HP-Notebook: ~
(base) neo@neo-HP-Notebook:~$ arp
Address          HWtype  HWaddress      Flags Mask    Iface
_gateway         ether    28:16:7f:c0:6b:fa  C             wlo1
(base) neo@neo-HP-Notebook:~$ arp -a
_gateway (192.168.43.1) at 28:16:7f:c0:6b:fa [ether] on wlo1
(base) neo@neo-HP-Notebook:~$
```