FOSS LAB ASSIGNMENT

Submitted by:

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1. View all network settings, assign IP address and netmask

2.Configure gateway

```
user@hp-notebook:~$ sudo route add default gw 192.167.1.8
user@hp-notebook:~$ ifconfig -a
          Link encap:Ethernet HWaddr 18:60:24:12:fd:a2
inet addr:192.167.1.8 Bcast:192.167.1.255 Mask:255.255.255.0
enp1s0
          UP BROADCAST MULTICAST MTU:1500 Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:4373 errors:0 dropped:0 overruns:0 frame:0
           TX packets:4373 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:362649 (362.6 KB) TX bytes:362649 (362.6 KB)
wlo1
          Link encap:Ethernet HWaddr f8:28:19:93:3a:97
           inet addr:192.168.43.97 Bcast:192.168.43.255 Mask:255.255.255.0
          inet6 addr: fe80::47af:7406:f3a1:80e6/64 Scope:Link
inet6 addr: 2405:204:d287:9462:743d:d4f1:f6d3:634/64 Scope:Global
           inet6 addr: 2405:204:d287:9462:2031:2bd6:5c4e:6682/64 Scope:Global
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:18541 errors:0 dropped:0 overruns:0 frame:0
          TX packets:16384 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:13618513 (13.6 MB) TX bytes:2718681 (2.7 MB)
user@hp-notebook:~$ sudo route add default gw 192.167.1.8
SIOCADDRT: File exists
```

3. Configure DNS

user@hp-notebook:~\$ sudo echo "nameserver 192.168.12.1" >> /etc/resolv.conf
bash: /etc/resolv.conf: Permission denied

```
# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
# DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 127.0.1.1
```

4. Iptables

```
user@hp-notebook:~$ iptables -L
modprobe: ERROR: could not insert 'ip_tables': Operation not permitted
iptables v1.6.0: can't initialize iptables table `filter': Table does not exist (do you need to insmod?)
Perhaps iptables or your kernel needs to be upgraded.
user@hp-notebook:~$ sudo iptables -L
[sudo] password for user:
Chain INPUT (policy ACCEPT)
target prot opt source destination

Chain FORWARD (policy ACCEPT)
target prot opt source destination

Chain OUTPUT (policy ACCEPT)
target prot opt source destination
```