

## Code

### dhcp\_server.py

```
import os
#Install DHCP Package
os.system("yum install dhcp")
#Change Subnet mask ip address to 192.168.5.0
os.system("gedit /etc/dhcp/dhcpd.conf")
#Starting DHCP Service
os.system("systemctl start dhcpd.service")
os.system("systemctl enable dhcpd.service")
os.system("systemctl status dhcpd.service")
```

### dhcp\_client.py

```
import os
#Install DHCP Package
os.system("dhclient -r")
os.system("dhclient -r -v")
os.system("dhclient -v")
```

```
sk@sk:~$ sudo ifconfig
eth0      Link encap:Ethernet  HWaddr 00:22:64:4f:e9:3a
          inet addr:192.168.1.15  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::222:04ff:fe4f:e93a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:92345 errors:0 dropped:87 overruns:0 frame:0
          TX packets:88278 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:82209599 (82.2 MB)  TX bytes:13746123 (13.7 MB)
          Interrupt:22 Memory:e4600000-e4620000

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:15617 errors:0 dropped:0 overruns:0 frame:0
          TX packets:15617 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1554601 (1.5 MB)  TX bytes:1554601 (1.5 MB)
```