DHCP

 Install DHCP in your system with the superuser access #yum install dhcp

```
[root@localhost etc]# yum install dhcp
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

Last metadata expiration check: 0:52:30 ago on Monday 30 September 2024 10:46:38 PM.

No match for argument: dhcp

Error: Unable to find a match: dhcp

[root@localhost etc]#
```

2. Run this command to edit the configuration file #vim /etc/dhcp/dhcpd.conf

```
root@localhost:/

[root@localhost /]# vim /etc/dhcp/dhcpd.conf
[root@localhost /]#
```

3. It will open this page in that you have added the subnet and netmask

```
Q ≣
 ⅎ
                            root@localhost:/ - vim /etc/dhcp/dhcpd.conf
# set.
host fantasia {
  hardware ethernet 08:00:07:26:c0:a5;
  fixed-address fantasia.example.com;
# You can declare a class of clients and then do address allocation
# based on that. The example below shows a case where all clients
# in a certain class get addresses on the 10.17.224/24 subnet, and all
class "foo" {
  match if substring (option vendor-class-identifier, 0, 4) = "SUNW";
default-lease-time 600;
max-lease-time 7200;
subnet 192.168.1.0 netmask 255.255.255.0 {
   range dynamic-bootp 192.168.1.1 192.168.1.100;
   option broadcast-address 192.168.1.255;
   option routers 192.168.1.254;
"/etc/dhcp/dhcpd.conf" 96L, 3129B
                                                                96.1
```

4. Then start the dhcpd #systemctl start dhcpd

```
root@localhost:/

[root@localhost /]# systemctl start dhcpd

[root@localhost /]#
```

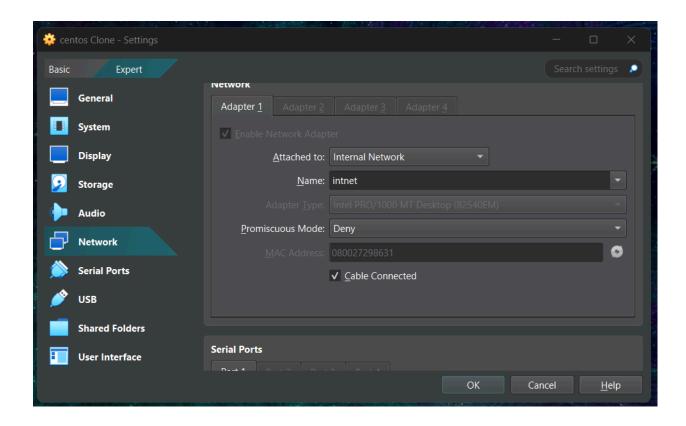
5. Enable the dhcpd#systemctl enable dhcpd

```
[root@localhost /]# systemctl enable dhcpd
[root@localhost /]# |
```

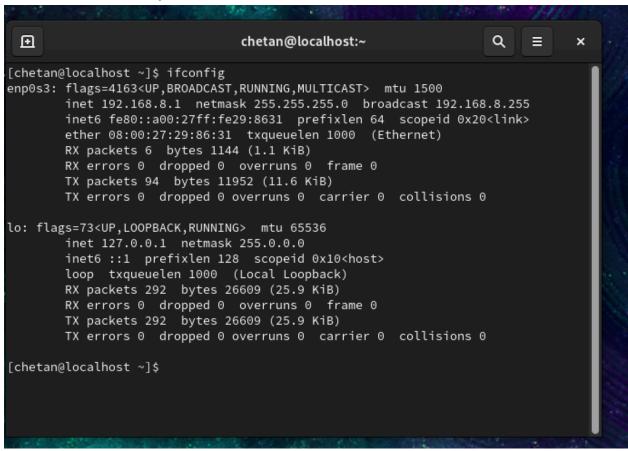
You can check the service it is active #systemctl status dhcpd

```
root@localhost:/ — systemctl status dhcpd
                                                                                                    Q ≣
 dhcpd.service - DHCPv4 Server Daemon
    Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; enabled; preset: disabled)
    Active: active (running) since Mon 2024-09-30 22:46:28 IST; 56min ago
      Docs: man:dhcpd(8)
           man:dhcpd.conf(5)
  Main PID: 3051 (dhcpd)
    Status: "Dispatching packets..."
     Tasks: 1 (limit: 23020)
    Memory: 7.5M
       CPU: 154ms
    CGroup: /system.slice/dhcpd.service __3051 /usr/sbin/dhcpd -f -cf /etc/dhcp/dhcpd.conf -user dhcpd -group dhcpd --no-pid
Sep 30 23:32:06 localhost.localdomain dhcpd[3051]:
sep 30 23:32:06 localhost.localdomain dhcpd[3051]: DHCPACK on 192.168.1.8 to 08:00:27:29:86:31 via enp0s3
sep 30 23:35:37 localhost.localdomain dhcpd[3051]: DHCPREQUEST for 192.168.1.4 from 2a:50:71:3b:8e:45 vi>
Sep 30 23:35:37 localhost.localdomain dhcpd[3051]:
Sep 30 23:35:38 localhost.localdomain dhcpd[3051]:
Sep 30 23:35:38 localhost.localdomain dhcpd[3051]: DHCPACK on 192.168.1.4 to 2a:50:71:3b:8e:45 (V2040) v
Sep 30 23:37:04 localhost.localdomain dhcpd[3051]: DHCPREQUEST for 192.168.1.8 from 08:00:27:29:86:31 vi>
Sep 30 23:37:04 localhost.localdomain dhcpd[3051]:
Sep 30 23:37:04 localhost.localdomain dhcpd[3051]:
sep 30 23:37:04 localhost.localdomain dhcpd[3051]: DHCPACK on 192.168.1.8 to 08:00:27:29:86:31 via enp0s3
lines 1-23/23 (END)
```

7. You had to set to internal network in your virtual box setting and it will give the ip address automatically in this range



8. Check the if of your client



9. In your client choose the internal network setting in your virtual box

