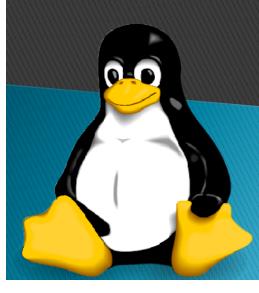
DHCP Server



What is DHCP

Dynamic Host Configuration Protocol.

It use port 67 & 68

It provide the every machine unique ip address dynamically.

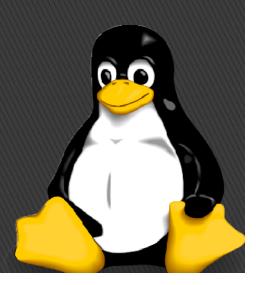
The Communication between client and server to assign automatic ip address is called DORA process.

D=Discovery

O=Offer

R=Request

A=Assignment/Ack



DORA Process

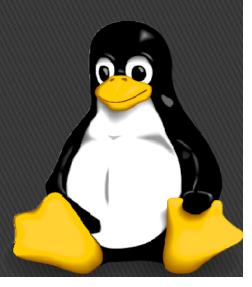


Configure DHCP Server

Step 1:

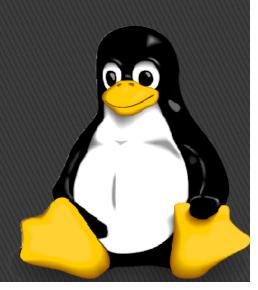
Configure network settings (static IP – 192.168.1.2/24)

#nmtui Or #nmcli



Step 2:Install the Package

#yum install dhcp*



Step 3:

Edit DHCP Configuration file

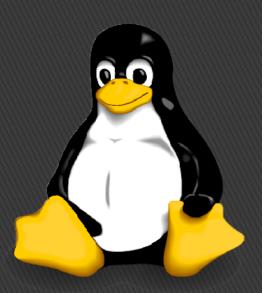
#vim /etc/dhcp/dhcpd.conf

Copy dhcpd.conf.example and paste as a dhcpd.conf

#cp -r /usr/share/doc/dhcp-server/dhcpd.conf.example
/etc/dhcp/dhcpd.conf

Now, edit configuration file

#vim /etc/dhcp/dhcpd.conf



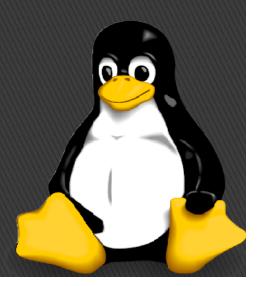
Step 4:

Go to the line "A slightly different configuration for an internal subnet (number 46)

```
Subnet 192.168.1.0 netmask 255.255.255.0
Range 192.168.1.3 192.168.1.103
```

:wq

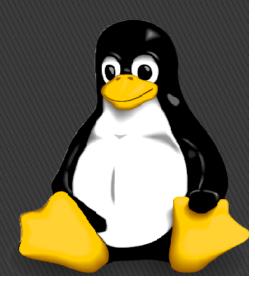
```
#systemctl start dhcpd
#systemctl enable dhcpd
```



Step 5:Firewall setup

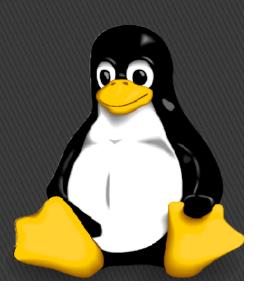
```
#firewall-cmd --permanent --add-service=dhcp #firewall-cmd --reload
```

#systemctl restart dhcpd



Step:7

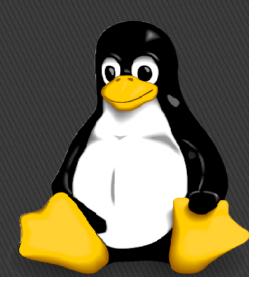
Go to client computer and set automatic ip configuration.



Step 8: Assign Fix ip to client

```
host rhel8
    hardware Ethernet 08:00:07:26:c0:a5;
    fixed-address 192.168.1.100;
} (line 75)
:wq
```

#systemctl restart dhcpd



Step 9:

Go to client computer and check ip configuration

