

How to Install a DHCP Server in CentOS,

Testing Environment Setup

We are going to use following testing environment for this setup.

DHCP Server - CentOS 6

DHCP Clients - CentOS 6

Step 1: Installing DHCP Server in CentOS

1. Installing DHCP is quite straight forward, simply run the command below.

```
# yum -y install dhcp
```

Open the file `/etc/sysconfig/dhcpd`, add the name of the specific interface to the list of **DHCPDARGS**, for example if the interface is `eth0`, then add:

```
DHCPDARGS=eth0
```

```
# cp /usr/share/doc/dhcp-4.2.5/dhcpd.conf.example /etc/dhcp/dhcpd.conf
```

```
# vi /etc/dhcp/dhcpd.conf
```

#top of the file

```
option domain-name "cts.com";
option domain-name-servers server.cts.com;
default-lease-time 3600;
max-lease-time 7200;
authoritative;
```

```
subnet 192.168.56.0 netmask 255.255.255.0 {
    option routers                192.168.56.1;
    option subnet-mask            255.255.255.0;
    option domain-search          "cts.com";
    option domain-name-servers    192.168.56.1;
    range 192.168.56.10 192.168.56.100;
    range 192.168.56.120 192.168.56.200;
}
```

Now start the DHCP service for the mean time and enable it to start automatically from the next system boot, using following commands:

```
----- On CentOS/RHEL 7 -----
# systemctl start dhcpd
# systemctl enable dhcpd
```

```
----- On CentOS/RHEL 6 -----
```

```
# service dhcpd start
# chkconfig dhcpd on
```

```
#service iptables stop
```

Configuring DHCP Clients

```
#vim /etc/hosts
```

```
192.168.56.3 cts.com # not configure dns server thats why I make entry in etc
host file
```

```
# vi /etc/sysconfig/network-scripts/ifcfg-eth0
```

Add the options below:

```
DEVICE=eth0
BOOTPROTO=dhcp
TYPE=Ethernet
ONBOOT=yes
```

```
----- On CentOS/RHEL 6 -----
# service network restart
```