



How to setup network in centos 6

Setup network in centos 6 :

By default Centos 6 new installation will not have network access , which means you need to configure ip address to the network interfaces by yourself.

In this article we can see how to setup network in centos 6 , i.e. assigning ipaddress in static and in DHCP mode .

» DHCP mode :

Assigning ip address in DHCP mode

Step 1 » Check the network interface name by typing below command

```
[root@leela ~]# ip a
1: lo: mtu 16436 qdisc noqueue state UNKNOWN
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: p4p1: mtu 1500 qdisc mq state UP qlen 1000
link/ether 00:22:19:09:4d:3c brd ff:ff:ff:ff:ff:ff
```

Here “lo” is the loopback interface and “p4p1” is the network interface that you need to configure .

Step 2 » you can see the file named **ifcfg-p4p1** (Interface name) in the location “/etc/sysconfig/network-scripts/” , open the file and you can see the lines as below

1

2

```
3 DEVICE="p4p1 "  
4  
  
HWADDR="00:22:19:09:4D:3C"  
  
NM_CONTROLLED="yes"  
  
ONBOOT="no"
```

Just modify the lines like this

```
1  
2  
3 DEVICE="p4p1 "  
4  
5  
HWADDR="00:22:19:09:4D:3C"  
  
NM_CONTROLLED="yes"  
  
ONBOOT="yes"      # Interface enabled  
  
BOOTPROTO="dhcp"  #Assigning IP from DHCP
```

Step 3 » Start the network service and you can see the status as below .

```
[root@leela ~]# service network start  
Bringing up loopback interface:      [ OK ]  
Bringing up interface p4p1:
```

Determining IP information for p4p1... done. [OK]

Step 4 » Now you can see the ip address “192.168.1.12” assigned to the interface p4p1 using dhcp .

```
[root@leela ~]# ip a
1: lo: mtu 16436 qdisc noqueue state UNKNOWN
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: p4p1: mtu 1500 qdisc mq state UP qlen 1000
link/ether 00:22:19:09:4d:3c brd ff:ff:ff:ff:ff:ff
inet 192.168.1.12/26 brd 172.27.6.63 scope global p4p1
    inet6 fe80::222:19ff:fe09:4b3c/64 scope link
        valid_lft forever preferred_lft forever
```

» **Static mode :**

Assigning ip address in Static mode

Step 1 » Check the network interface name by typing below command

```
[root@leela ~]# ip a
1: lo: mtu 16436 qdisc noqueue state UNKNOWN
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: p4p1: mtu 1500 qdisc mq state UP qlen 1000
link/ether 00:22:19:09:4d:3c brd ff:ff:ff:ff:ff:ff
```

Here “lo” is the loopback interface and “p4p1” is the network interface that you need to configure .

Step 2 » you can see the file named **ifcfg-p4p1** (Interface name) in the location “/etc/sysconfig/network-scripts/” , open the file and you can see the lines as below

```
1
2
3 DEVICE="p4p1"
4
HWADDR="00:22:19:09:4D:3C"
NM_CONTROLLED="yes"
ONBOOT="no"
```

Just modify the lines like this

```
1
2
3 DEVICE="p4p1"
4
5
6 HWADDR="00:22:19:09:4D:3C"
7
8
9 NM_CONTROLLED="yes"
10
ONBOOT="yes"      # Interface enabled
BOOTPROTO="static" #Assigning in static mode
IPADDR=192.168.1.11 #IP address
```

```
NETMASK=255.255.255.0 # Subnet Mask
```

```
GATEWAY=192.168.1.1 # Default Gateway
```

```
DNS1=8.8.8.8 #Primary DNS
```

```
DNS2=4.2.2.2 #Secondary DNS
```

Step 3 » Start the network service and you can see the status as below .

```
[root@leela ~]# service network start
```

```
Bringing up loopback interface:          [ OK ]
```

```
Bringing up interface p4p1:  [ OK ]
```

Step 4 » Now you see the ip address “192.168.1.12” assigned to the interface p4p1 .

```
[root@leela ~]# ip a
```

```
1: lo: mtu 16436 qdisc noqueue state UNKNOWN
```

```
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
```

```
inet 127.0.0.1/8 scope host lo
```

```
inet6 ::1/128 scope host
```

```
valid_lft forever preferred_lft forever
```

```
2: p4p1: mtu 1500 qdisc mq state UP qlen 1000
```

```
link/ether 00:22:19:09:4d:3c brd ff:ff:ff:ff:ff:ff
```

```
inet 192.168.1.12/26 brd 172.27.6.63 scope global p4p1
```

```
inet6 fe80::222:19ff:fe09:4b3c/64 scope link
```

```
valid_lft forever preferred_lft forever
```

Tags: [Basic guide](#), [Centos](#), [dhcp](#), [how to](#), [installation](#), [step by step](#)
