

ip version 6 (ipv6) Configuration on Linux

AutoConfiguration,

Auto configuration is completely independent. Getting the mac address of the card and giving a random ipv6 address.

Static ipv6 configuration

```
# -----
```

```
auto lo
```

```
iface lo inet loopback
```

```
auto eth0
```

```
allow-hotplug eth0
```

```
iface eth0 inet dhcp
```

```
iface eth0 inet6 static
```

```
address 2001:db8::xxxx:yyyy
```

```
netmask 64
```

```
gateway 2001:db8::xxxx:yy:zzzz
```

```
# -----
```

Your /etc/hosts file should read

```
127.0.0.1 localhost
```

```
127.0.1.1 serverubuntu//change this to 127.0.0.1
```

```
192.168.1.199 serverubuntu//add your static IP
```

The following lines are desirable for IPv6 capable hosts

```
::1 localhost ip6-localhost ip6-loopback
```

```
fe00::0 ip6-localnet
```

```
ff00::0 ip6-mcastprefix
```

```
ff02::1 ip6-allnodes
```

```
ff02::2 ip6-allrouters
```

#- Network Fail logs

```
#systemctl status network.service
```

```
network.service - LSB: Bring up/down networking
```

```
Loaded: loaded (/etc/rc.d/init.d/network)
```

Active: failed since Thu, 09 Feb 2012 00:11:18 -0500; 8min ago

CGroup: name=systemd:/system/network.service

```
| 3850 /bin/bash ./ifup 59173567_autom tica boot
| 3859 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 25236 /bin/bash ./ifup 59173567_autom tica boot
| 25245 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 25507 /bin/bash ./ifup 59173567_autom tica boot
| 25516 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 25903 /bin/bash ./ifup 59173567_autom tica boot
| 25912 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 26168 /bin/bash ./ifup 59173567_autom tica boot
| 26177 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 26427 /bin/bash ./ifup 59173567_autom tica boot
| 26436 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 26686 /bin/bash ./ifup 59173567_autom tica boot
| 26695 nmcli con up uuid 32aea3d4-ce65-42d1-a3ed-6a42c17a2111
| 27471 /bin/bash ./ifup ALEJANDRO_autom tica boot
| 27480 nmcli con up uuid f8a46744-7098-4eb6-8902-34df1bd351f5
| 28228 /bin/bash ./ifup Auto_58915877 boot
| 28234 nmcli con up uuid 80a61972-1616-431e-bcf3-d4660386ec35
| 29174 /bin/bash ./ifup Auto_58915877 boot
L 29180 nmcli con up uuid 80a61972-1616-431e-bcf3-d4660386ec35
```

#-----

Route Commands

```
[crayon-6684aa1e59d98239773767/]
```

```
[crayon-6684aa1e59d9e531231273/]
```

#-----

Centos Configuration or RedHat

```
[crayon-6684aa1e59da0031738940/]
```

```
/etc/sysconfig/network
```

```
[crayon-6684aa1e59da3779339961/]
```

```
cat /etc/sysctl.conf
```

```
[crayon-6684aa1e59da5410176754/]
```
