Network Configuration

General

```
ping -c4
ss -tul All UDP and TCP port listening
systemctl status NetworkManager
hostnamectl status
hostname set-hostname <newname>
/etc/hostname
/etc/hosts
```

iproute

List network cards

```
ip link list
```

List statistics network cards

```
ip -s link
```

Display device attributes

```
ip address show
```

Just up device.

```
ip address show up
```

Live IP configuration (non persistent)

```
ip addr add 192.168.50.5/24 dev eth1
ip addr del 192.168.50.5/24 dev eth1
```

Route list.

```
ip route list
ip route show
```

Obtain route use for 1.2.3.4

```
ip route get to 1.2.3.4
```

Print cache.

```
ip route ls cache
```

Flush route cache.

```
ip route flush cache
```

List rules.

```
ip rule show
```

Drop routing form 192.168.44.0/24 on the principal table

```
ip rule add table main type prohibit from 192.168.44.0/24
```

In ip rule add, type posibilities.

- blackhole - the rule prescribes to silently drop the packet.
- unreachable - the rule prescribes to generate a 'Network is unreachable' error.
- prohibit - the rule prescribes to generate 'Communication is administratively prohibited' error.

File witch contains name table list.

```
/etc/iproute2/rt_tables
```

Create a new table.

```
echo 200 table33 >> /etc/iproute2/rt_tables
```

Add default route on this table.

```
ip route add default via 192.168.33.1 dev eth0 table table33
```

Verify.

```
ip route show table table33
```

Add new rule for the packets from 192.168.33.0/24 routed on the new table created (table33)

```
ip rule add from 192.168.33.0/24 table table33
```

nmcli

```
systemctl status NetworkManager
nmcli
nmtui
nmcli con shown
mcli con show <devicename>
nmcli dev status
```

```
ncli dev show <devicename>
nmcli con down eth0 && nmcli con up eth0
man nmcli-examples
nmcli con reload
```

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