

# network

The following method allows to change the name of interfaces in ubuntu. The network card below some how is not good recognized by default, one interface is named renameX by default. With this method I assign it the name `enp1s0` by configuration.

First I get all mac addresses of my interfaces

```
ip a
```

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: rename2: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 00:07:43:0c:32:12 brd ff:ff:ff:ff:ff:ff
3: enp130s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:07:43:0c:32:13 brd ff:ff:ff:ff:ff:ff
    inet 10.7.10.70/24 brd 10.7.10.255 scope global dynamic enp130s0
        valid_lft 5639sec preferred_lft 5639sec
    inet6 fe80::207:43ff:fe0c:3213/64 scope link
        valid_lft forever preferred_lft forever
```

Then I enable the feature in the grub configuration to set my own interface names.

```
vim /etc/default/grub
```

```
GRUB_CMDLINE_LINUX="net.ifnames=0 biosdevname=0"
```

Apply the new configuration

```
grub-mkconfig -o /boot/grub/grub.cfg
```

```
update-grub
```

```
update-initramfs -u
```

## Configure the new names per mac address

```
vim /etc/udev/rules.d/70-persistent-net.rules
```

```
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="*", ATTR{address}=="00:07:43:0c:32:12",  
NAME="enp1s0"
```

```
SUBSYSTEM=="net", ACTION=="add", DRIVERS=="*", ATTR{address}=="00:07:43:0c:32:13",  
NAME="enp2s0"
```

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