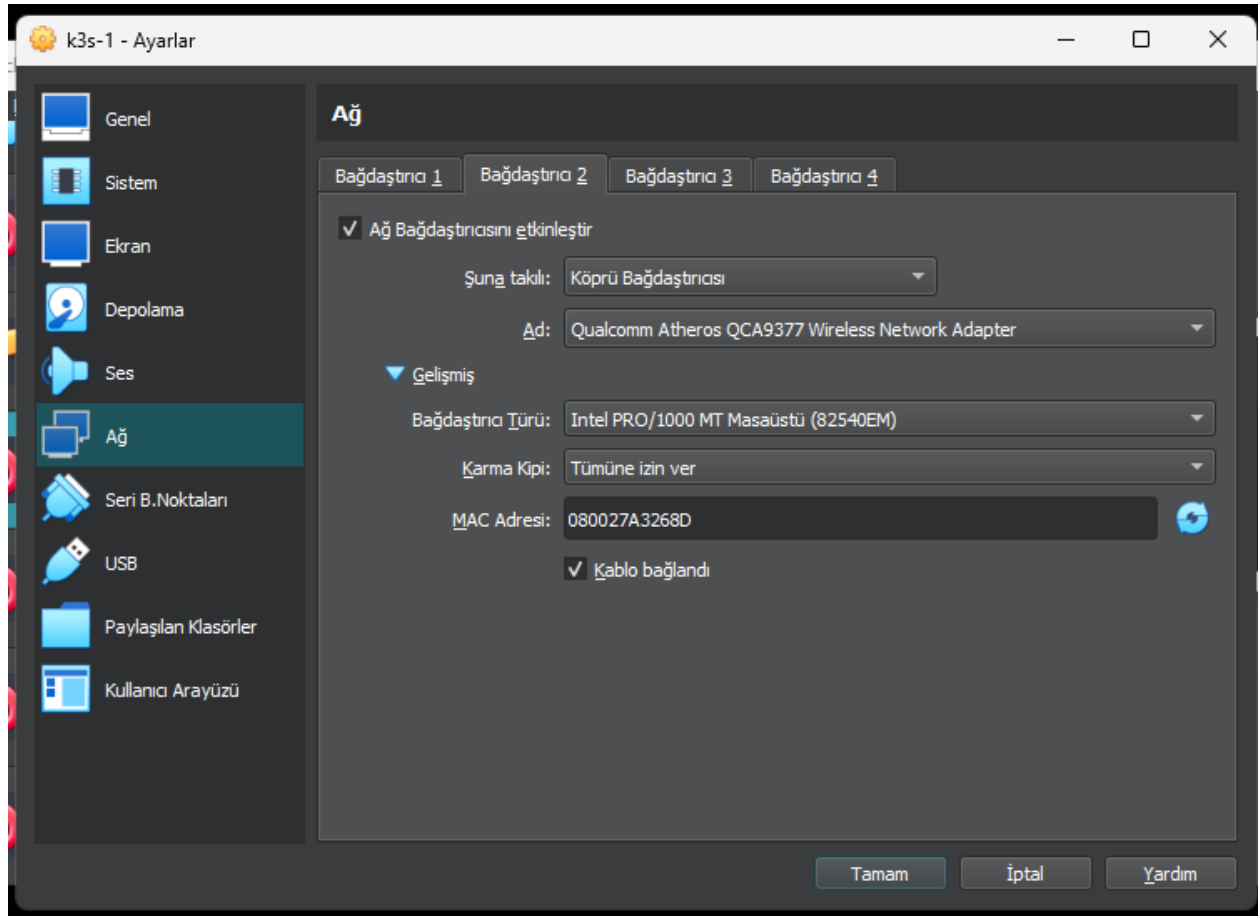# STATIC IP CONFIGURATION

Ahmet Oğuz Ergin

Add New Network Device to VM

Check information of the device. enp0s8 is added without ip address.

```
root@k3s-1:~# ip link show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT group default qlen 1000
    link/ether 08:00:27:a6:39:c8 brd ff:ff:ff:ff:ff:ff
3: enp0s8: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000
    link/ether 08:00:27:a3:26:8d brd ff:ff:ff:ff:ff:ff
root@k3s-1:~#
root@k3s-1:~#
root@k3s-1:~#
root@k3s-1:~# 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 noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:a6:39:c8 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.202/24 brd 192.168.1.255 scope global dynamic enp0s3
       valid_lft 86283sec preferred_lft 86283sec
    inet6 fe80::a00:27ff:fea6:39c8/64 scope link
       valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 08:00:27:a3:26:8d brd ff:ff:ff:ff:ff:ff
```

Set static ip address

Configure file and add last block.

```
nano /etc/network/interfaces
```

```
  GNU nano 7.2
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s3
iface enp0s3 inet dhcp

# My secondary static network interface
auto enp0s8
iface enp0s8 inet static
    address 192.168.1.21
    netmask 255.255.255.0
    gateway 192.168.1.1
    dns-nameservers 8.8.8.8 8.8.4.4
```

Restart service with:

```
systemctl restart networking
```

check service again

```
root@k3s-1:~# ip addr show enp0s8
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:a3:26:8d brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.21/24 brd 192.168.1.255 scope global enp0s8
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fea3:268d/64 scope link
       valid_lft forever preferred_lft forever
root@k3s-1:~# []
```