

Set up NAT Network

1 Create NAT Network

In VirtualBox, under Network --> NAT Network --> Create

Name: e.g. 3BHITS (you can decide, name doesnt matter)

IPv4 Prefix: 10.0.5.0/24

Go to Port Forwarding

- Add a rule
 - Host Port: 4448 (if you already have that port in another rule, choose another, e.g. 4449)
 - Guest IP: 10.0.5.10
 - Guest Port: 22

2 Select NAT Network in VM

Under VM settings, go to Network and change attached to to

```
1 | NAT Network
```

Boot VM again

Set up DHCP Server

Important Information: Log into root user on the VM (su -)

1 Update system

```
1 | apt update && apt upgrade -y
```

2 Change interface to static

```
1 | vi /etc/network/interfaces
```

Change this line (or comment it out):

```
1 | iface enp0s3 inet dhcp
```

To this:

```
1 | iface enp0s3 inet static
2 |     address 10.0.5.--/24
3 |     gateway 10.0.5.1
```

Restart networking.service:

```
1 | systemctl restart networking.service
```

Check if ip is static:

```
1 | ip a
```

3 Install Kea DHCP Server

```
1 | apt install kea-dhcp4-server -y
```

4 Edit DHCP config

replace the .conf file with the one provided

5 Enable DHCP server

```
1 | systemctl enable kea-dhcp4-server # not nessecary
```

```
1 | systemctl restart kea-dhcp4-server
```

6 Check the status of the DHCP server

```
1 | systemctl status kea-dhcp4-server
```

needs to be `active (running)`