

Classification: Confidential

7. DHCP server

1. Install the Kea package.

```
dhcp.sat # apt install kea
```

2. Disable the DHCP/DDNS service.

```
dhcp.sat # systemctl disable --now kea-dhcp-ddns-server
```

3. Upload the adjusted Kea configuration file.

```
any.sat $ scp KeaMA/adjusted.json /etc/kea/kea-dhcp4.conf
```

4. Start the DHCP service manually to confirm whether it's working properly.

```
dhcp.sat # kea-dhcp4 -c /etc/kea/kea-dhcp4.conf
```

5. Write a systemd unit file for the service.

Note: the systemd unit uses the root account, while a user account named `_kea` is available. When testing the program as described in 7.4 with this user, it was not possible to bind to the interface. This includes using capabilities like `cap_net_bind_service`, `cap_net_raw`, and `cap_net_admin` as described in capabilities(7).

```
dhcp.sat # systemctl --force --full kea-dhcp4.service  
→ System/kea-dhcp4.service
```

6. Start the service.

```
dhcp.sat # systemctl enable --now kea-dhcp4.service
```

7. Confirm whether the service is running properly.

```
dhcp.sat # systemctl status kea-dhcp4.service
```

```
dhcp.sat # journalctl -fu kea-dhcp4.service
```

```
dhcp.sat # ss -tunlp
```