Installing a timelord on Debian / Ubuntu

1. To run a timelord, you need a fully synchronized full node. If you don’t have one, follow all the steps of this tutorial.

2. The timelord software is not included in the official binary **.deb** or **.rpm** releases. You need to build it from the source code. Log in as root and install the **Git** client first.

```
apt-get install git
```

3. The timelord installer script requires root access to install certain dependencies from APT repositories. Add the BPX Chain services user to the **sudoers** with the following command:

```
usermod -a -G sudo bpxchain
```

4. Switch to the BPX Chain services user account:

```
su - bpxchain
```

4. Clone the BPX Beacon Client git repository:

```
git clone https://github.com/bpx-network/bpx-beacon-client
```

5. Install the Beacon Client from the source. This process may take several minutes.

```
cd bpx-beacon-client
. install.sh
```

6. Install the timelord module:

```
. install-timelord.sh
```

7. Press **Control + D** to log out and return to the root console.

8. Create a configuration file for the timelord **systemd** service:

```
nano /etc/systemd/system/bpx-timelord.service
```

Insert the following file content:

```
[Unit]
Description=BPX Timelord

[Service]
Type=forking
User=bpxchain
WorkingDirectory=/home/bpxchain/bpx-beacon-client
ExecStart=bash -c ". activate && bpx start timelord-launcher-only timelord-only"
ExecStop=bash -c ". activate && bpx stop timelord-only timelord-launcher-only"
Restart=always

[Install]
WantedBy=multi-user.target
```

9. Reload the system services configuration.

```
systemctl daemon-reload
```

10. Enable automatic startup of the new service.

```
systemctl enable bpx-timelord
```

Regular Timelord

If you want to run a regular timelord used by BPX consensus algorithm for generating new blocks, simply start the timelord with the default configuration:

```
systemctl start bpx-timelord
```

Bluebox Timelord

To run the bluebox timelord, which compresses old blocks in the chain, you need to edit the configuration file:

```
nano /home/bpxchain/.bpxchain/beacon/config/config.yaml
```

- In the timelord section, set `bluebox_mode` to `True`
- In the beacon section, set `send_uncompact_interval` to recommended value of `300`

Save the file and exit. Then start the timelord service:

```
systemctl start bpx-timelord
```

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