Installing the timelord on Debian / Ubuntu

1. To run a timelord, you need a synchronized BPX Chain full node. If you don't have it already, [follow the steps of this tutorial first](#).

2. The timelord software is not included in official binary .deb / .rpm releases. You have to build it from the source code. Login as root and install the git client first.

```
apt-get install git
```

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

```
usermod -a -G sudo bpxv3
```

4. Now it's time to switch to BPX services user:

```
su - bpxv3
```

4. Fetch the source code of the latest Beacon Client release:

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

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

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

6. Install the timelord software:

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

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

8. Create the timelord service descriptor file:

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

Insert the following file content:

```
[Unit]
Description=BPX Timelord


[Service]
Type=forking
User=bpxv3
WorkingDirectory=/home/bpxv3/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
```

Save the file by pressing **Control + O** and close the editor with **Control + X**.

9. Refresh startup services configuration

```
systemctl daemon-reload
```

10. Activate automatic startup of timelord service

```
systemctl enable bpx-timelord
```

Regular timelord

If you want to run a regular timelord used by BPX consensus algorithm for generating new blocks, just start the timelord with 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/bpxv3/.bpx/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:

```
systemctl start bpx-timelord
```

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