

Sparvio Toolbox Linux installation

Install Python 3.7 or later

Install venv:

```
pip install virtualenv
```

Create venv for Sparvio (in the current directory):

```
virtualenv ssp  
source ssp/bin/activate
```

Unpack the sparvio_toolbox .zip file and enter the directory.

```
sudo apt-get install -y python-setuptools
```

The user needs to be part of group dialout:

```
sudo adduser <user> dialout
```

It can be a good idea to remove modemmanager to avoid collision in the use of the serial port:

```
sudo apt remove modemmanager
```

Install dependencies:

```
python setup.py install
```

Run the Sparvio Toolbox scripts.

Deactivate the Sparvio environment (optional):

```
deactivate
```

If using Anaconda

Anaconda prefers to use the conda package manager instead of pip.

```
conda env create -f environment.yml  
  
conda install -c conda-forge aiohttp-jinja2
```

To run:

::

```
conda activate ssp ... conda deactivate
```

Graphing

Installing InfluxDB

The InfluxDB installation can differ depending on Linux distribution.

```
curl -sL https://repos.influxdata.com/influxdb.key | sudo apt-key add -
source /etc/lsb-release
echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME} stable" | sudo tee /etc/apt/sources.list.d/influxdb.list
sudo apt-get install influxdb
sudo service influxdb start
```

Installing Grafana

```
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee
/etc/apt/sources.list.d/grafana.list curl https://packagecloud.io/gpg.key | sudo apt-key add -
sudo apt-get install grafana
sudo service grafana-server start
```

Running

::

```
sudo service influxdb start sudo service grafana-server start
```

When running `interactive.py` or `telemetry.py`, go to `http://localhost:3030/` See the Grafana setup guide in the Sparvio Toolbox manual.