Jupyter Lab plug-in installation

Jupyter Lab plug-in installation
1. Install Node.js
2. Enable plug-in
3. Install the expansion pack

Installing plugins can enhance the functionality of Jupyter Lab and provide more tools and features.

1. Install Node.js

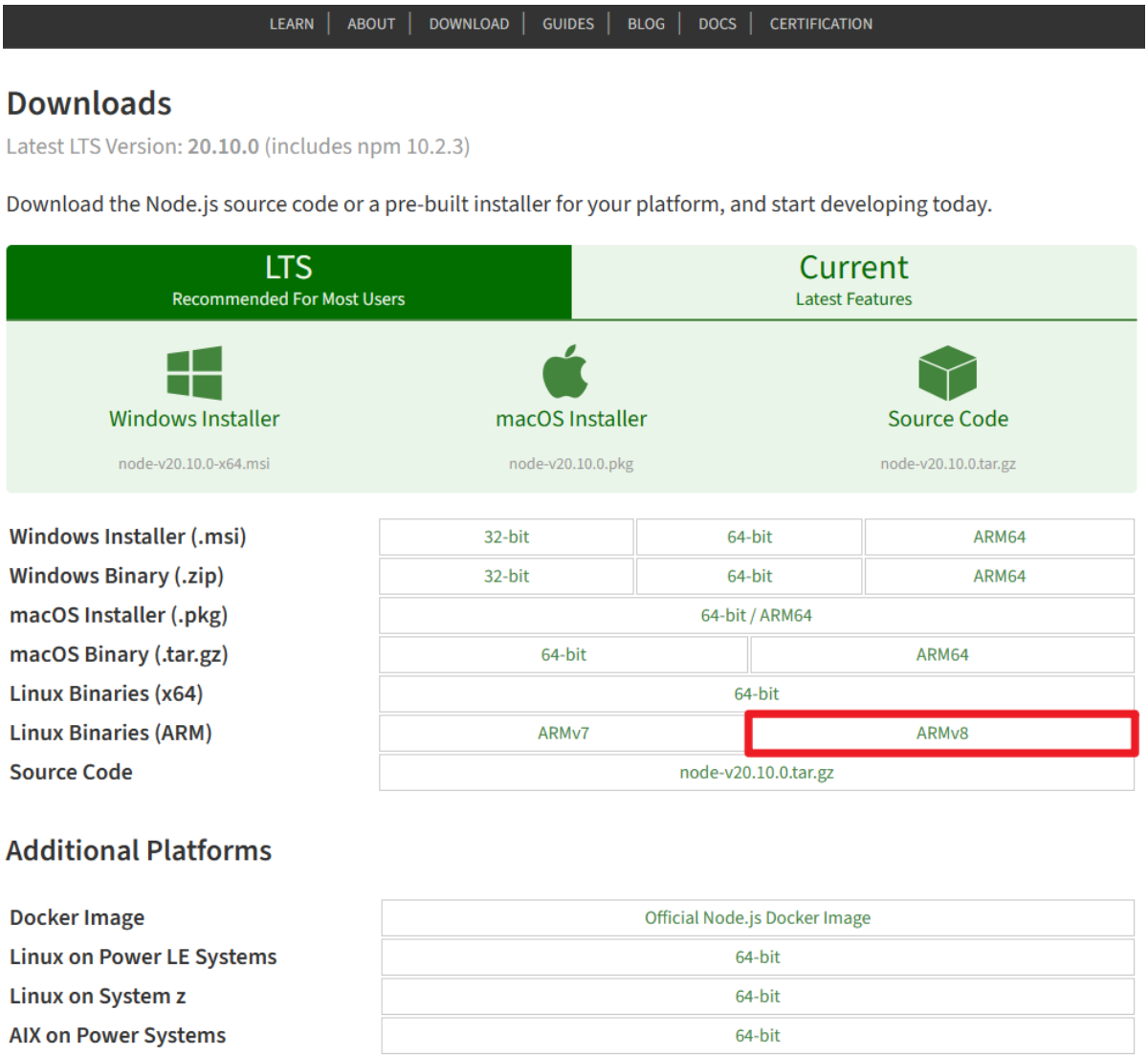
- View the architecture of Raspberry Pi

```
uname -a
```

Select the Node.js version suitable for ARMv8 architecture to install

- Node.js download

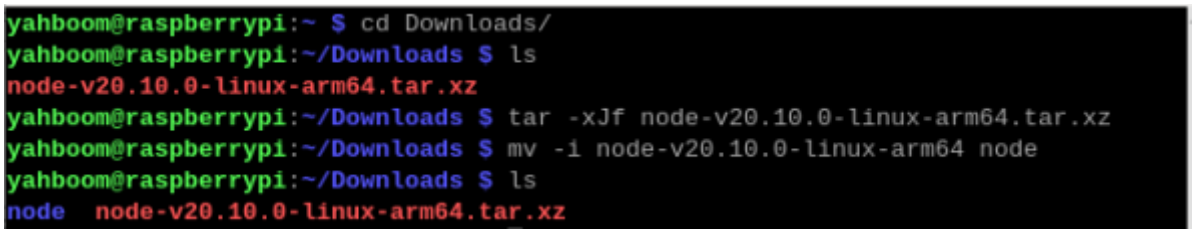
```
https://nodejs.org/en/download/
```



- Unzip

Download the latest version of the binary file from the official website, unzip it, and name the folder the node folder:

```
cd Downloads/
tar -xJf node-v20.10.0-linux-arm64.tar.xz
mv -i node-v20.10.0-linux-arm64 node
```

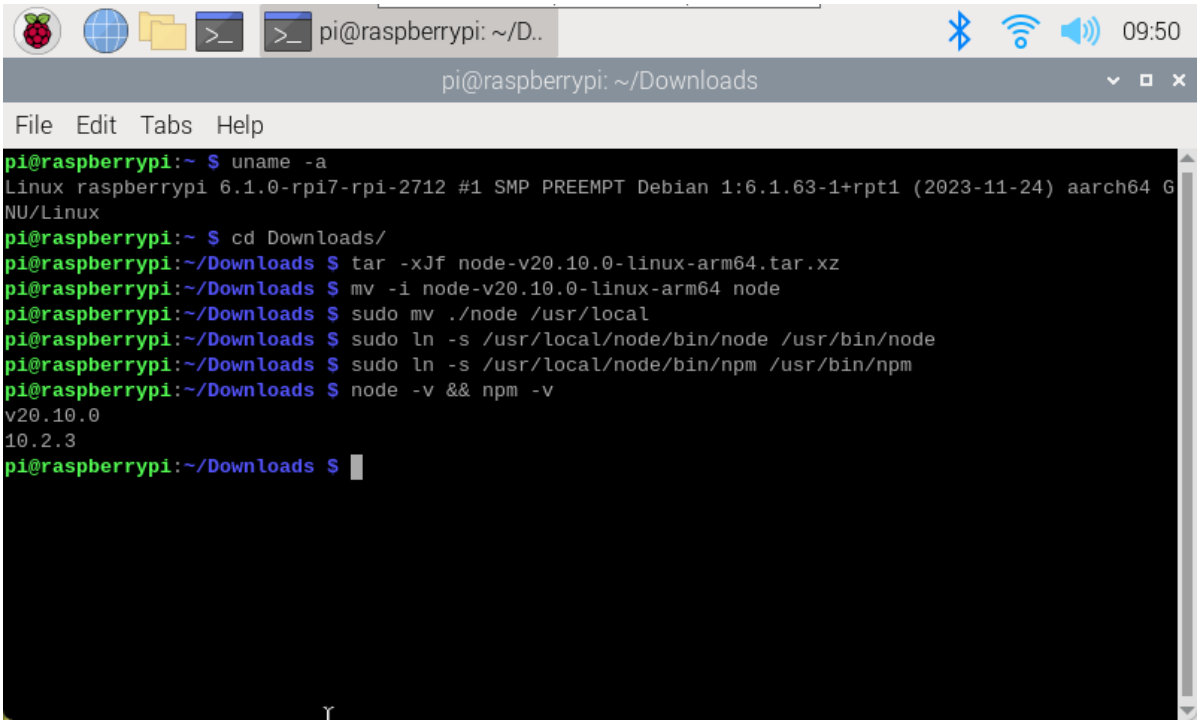


- Move binaries and add soft links

```
sudo mv ./node /usr/local
sudo ln -s /usr/local/node/bin/node /usr/bin/node
sudo ln -s /usr/local/node/bin/npm /usr/bin/npm
```

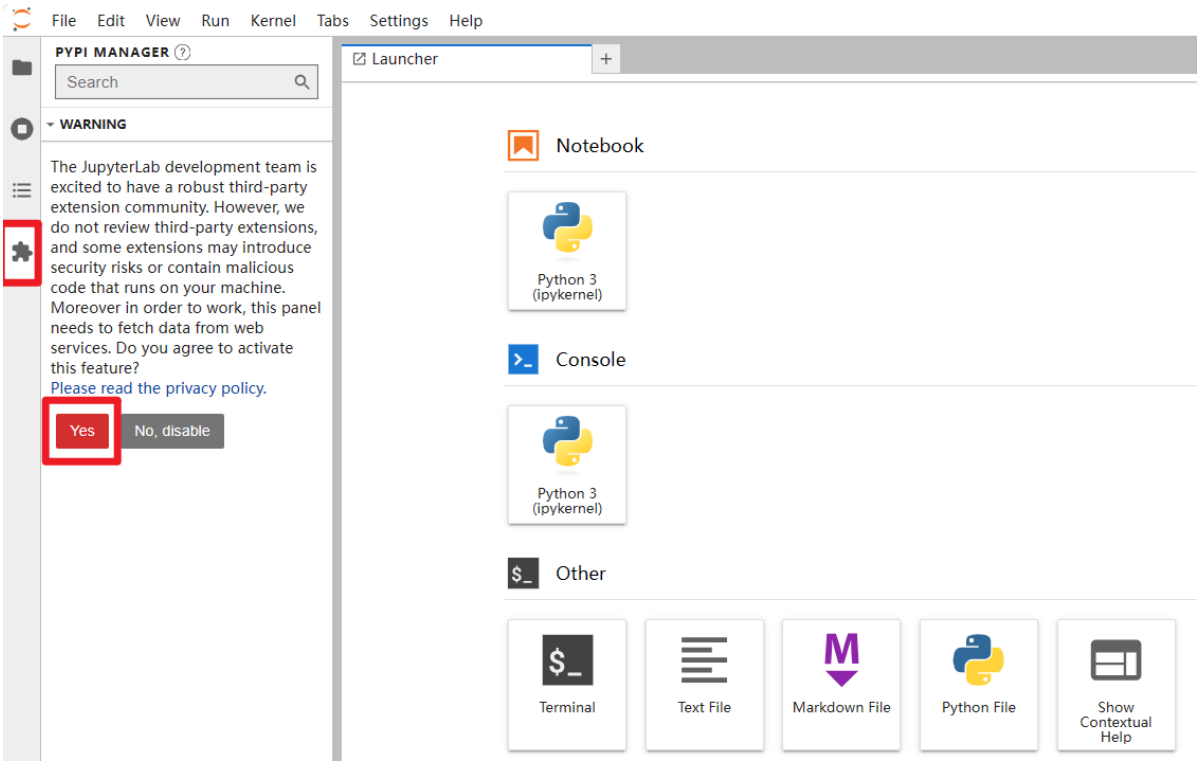
- Check whether node and npm are installed successfully

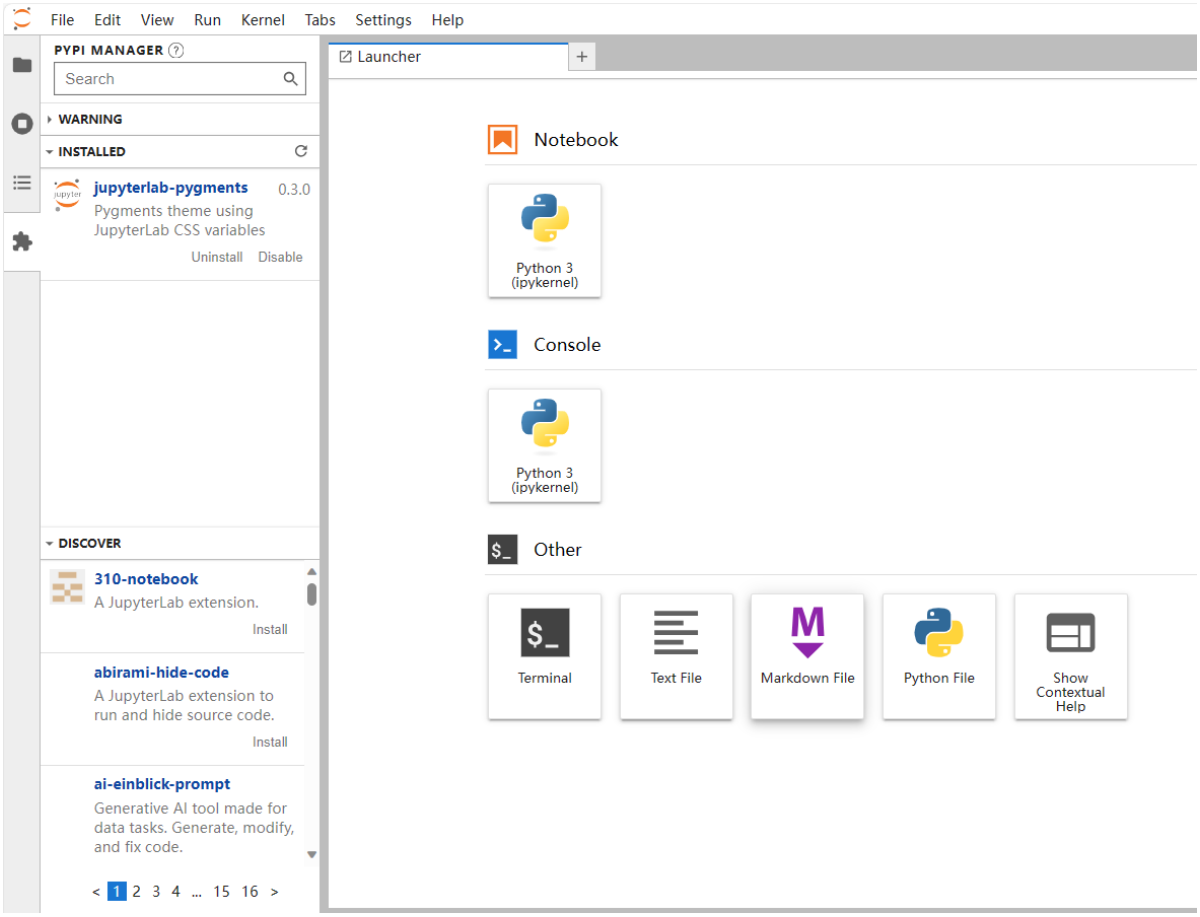
```
node -v && npm -v
```



2. Enable plug-in

Enable third-party expansion support in jupyter lab.

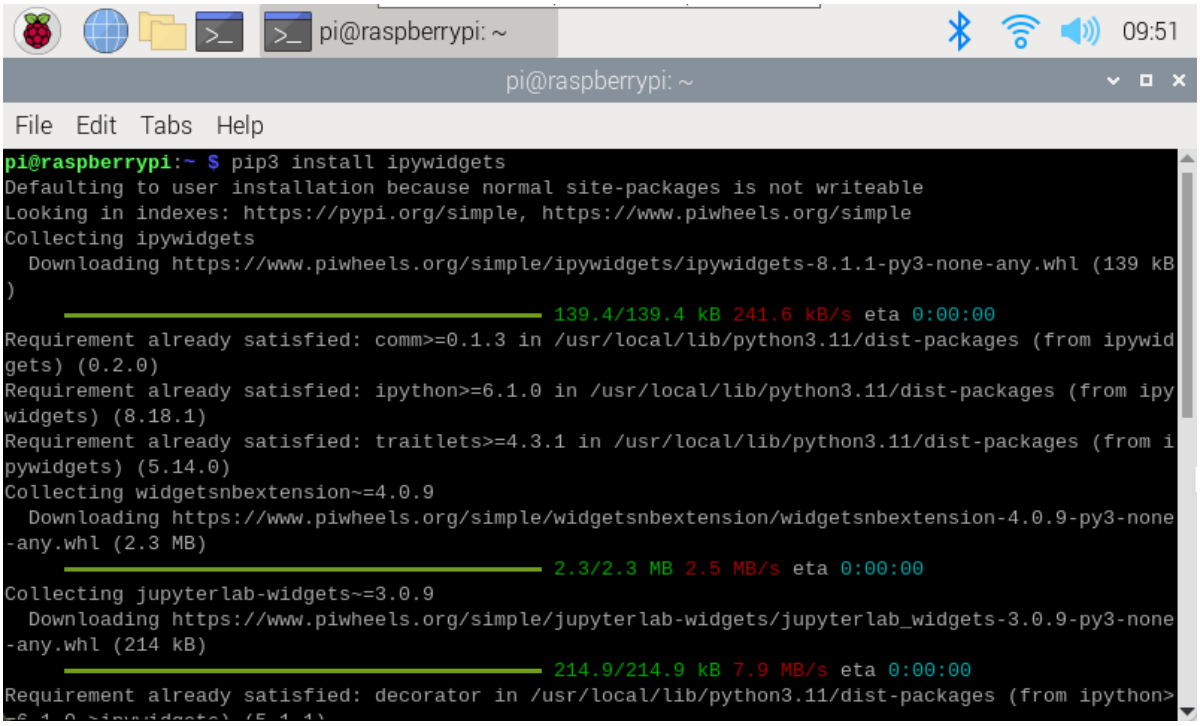




3. Install the expansion pack

```
pip3 install ipywidgets
```

Provides functionality for creating interactive widgets in Jupyter Lab.




```
pip3 install matplotlib
```

Features for creating various types of graphs and visualizations in Python, including line plots, scatter plots, histograms, and more.