1. Install nodejs and npm

sudo apt-get update
sudo apt install nodejs npm

However, the version installed directly with the above command is relatively low. Subsequent errors may be reported during the installation of the jupyterlab plugin. We can check the version with the following command, we must have node version 12.3.0 or higher.
node -v
npm -v

2. Install n module
We need to use this module to update or specify the version of node installed.
npm install -g n

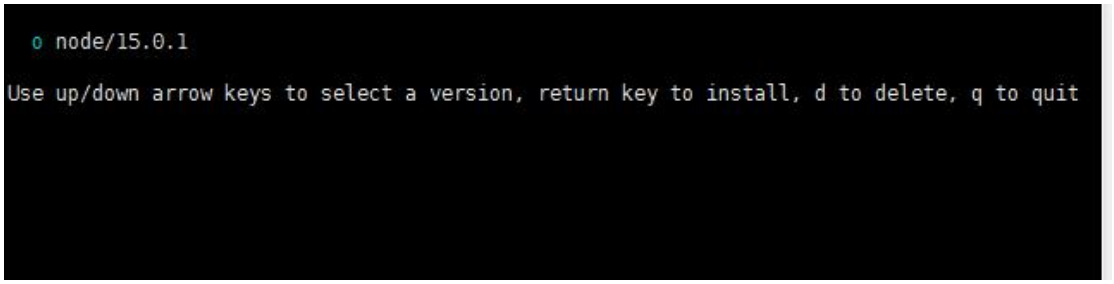
Clear the npm cache: **npm cache clean -f**
Install n module: **npm install -g n**
Install the official stable version: **n stable**
Install the latest official version: **n latest**
Install a specified version: **n 11.6.0**
Check the installed node version: **n**
View the current node version: **node -v**
Delete the specified version: **n rm 7.5.0**

Input following command to install latest version node.
sudo n latest

After installation is complete, input command node -v to check version number.

Input following command:
sudo n

Input following command to restart Jetson NANO.
sudo reboot



```
jetson@jetson-desktop:~$ node -v
v15.0.1
jetson@jetson-desktop:~$ npm -v
7.0.3
```

3. Install jupyterlab

3.1 Install some dependent package

(Ignore the warning, execute it for multiple failures)

sudo pip3 install jupyter jupyterlab

sudo jupyter labextension install @jupyter-widgets/jupyterlab-manager

sudo jupyter labextension install @jupyterlab/statusbar

3.2 Generate the corresponding configuration file

jupyter lab --generate-config

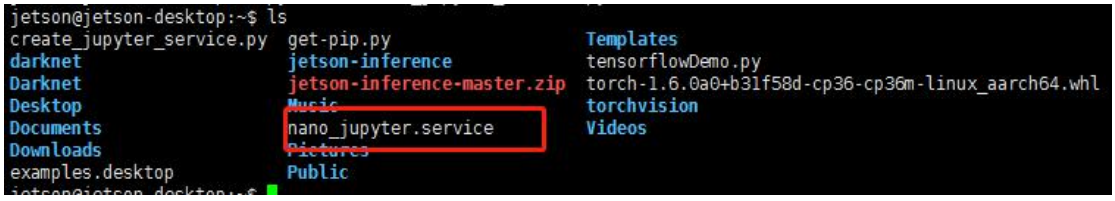
Input notebook password:

jupyter notebook password

You must remember this password.

3.3 Set up boot self-starting jupyterlab, create_jupyter_service.py file

Transfer create_jupyter_service.py file into Jetson NANO system by WinSCP.



pyhon3 create_jupyter_service.py

Move the generated service file to the system service.

sudo mv nano_jupyter.service /etc/systemd/system/nano_jupyter.service

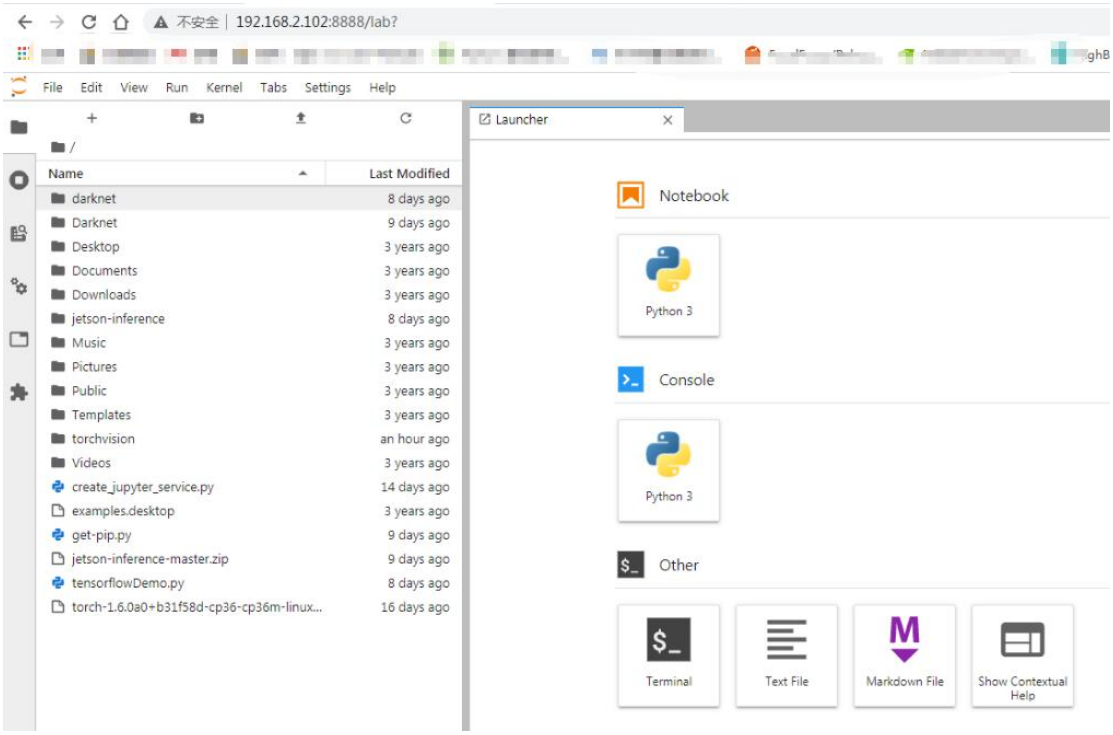
Enable this service.

sudo systemctl enable nano_jupyter.service

Start up this service.

sudo systemctl start nano_jupyter.service

After restarting, we can log in to JupterLab through the web page, enter the password just set and log in JupyterLab.



4. Install jetcam

Input following command:

```
git clone https://github.com/NVIDIA-AI-IOT/jetcam
cd jetcam
sudo python3 setup.py install
```

More Detail, please check https://github.com/NVIDIA-AI-IOT/jetcam