

# Start up JupyterLab

We will describe two ways to start Jupyter Lab.

Method-1: Local start up, which means starting in Jetson Nano's system,

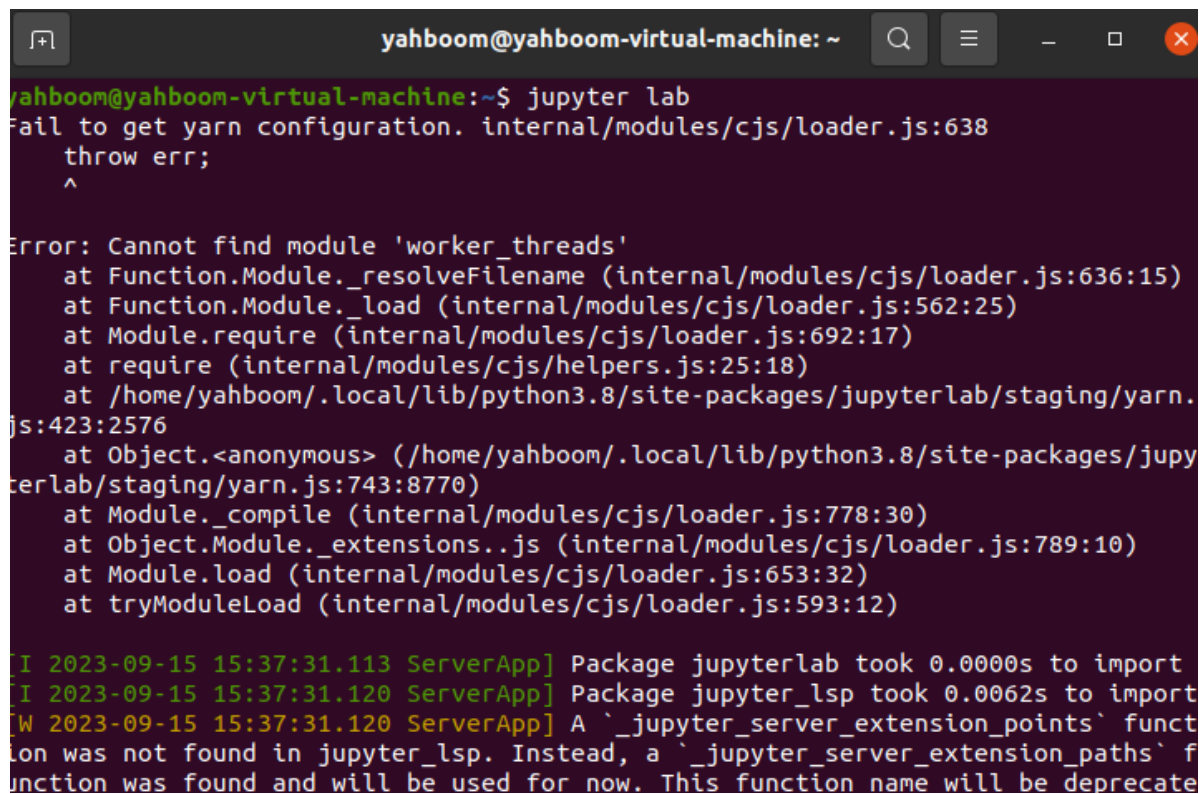
Method-2: Remote start up, which means starting Jupyter Lab remotely from a computer in the same local area network.

## 1. Local start up

Ensure your computer has installed and opened the virtual machine provided by Yahboom.

Open a terminal and enter following command.

```
jupyter lab
```

A terminal window titled 'yahboom@yahboom-virtual-machine: ~' with standard window controls. The terminal shows the command 'jupyter lab' being executed. The output includes a failure to get yarn configuration, an error about a missing module 'worker\_threads', and several log messages from the JupyterLab server. The logs indicate that the 'jupyterlab' package was imported successfully, but there was a warning about a deprecated function name in the 'jupyter\_lsp' package.

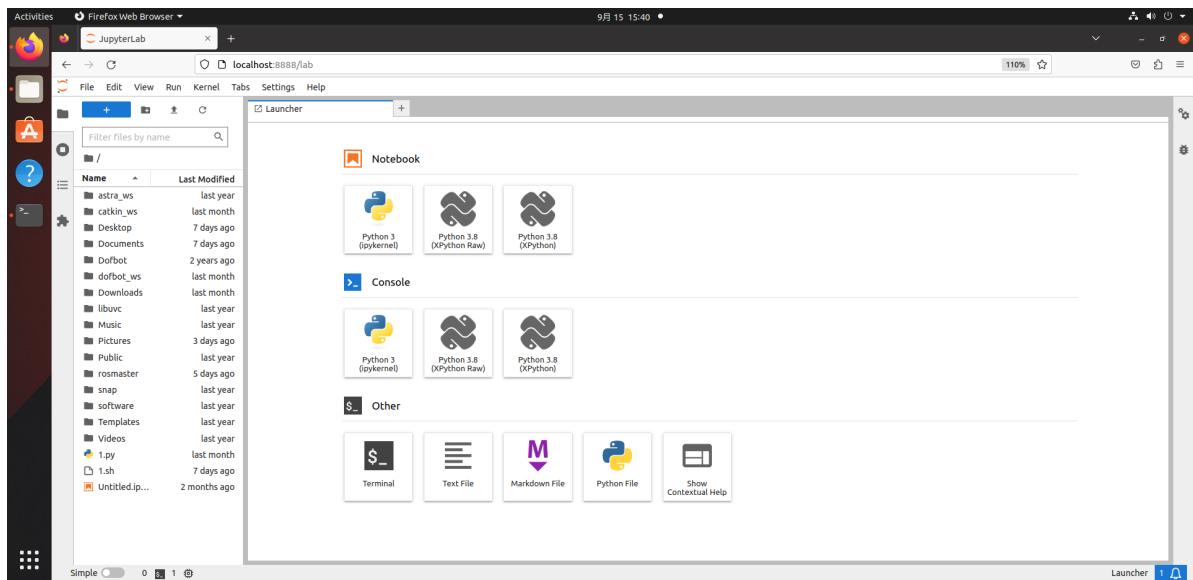
```
yahboom@yahboom-virtual-machine:~$ jupyter lab
Fail to get yarn configuration. internal/modules/cjs/loader.js:638
  throw err;
  ^

Error: Cannot find module 'worker_threads'
    at Function.Module._resolveFilename (internal/modules/cjs/loader.js:636:15)
    at Function.Module._load (internal/modules/cjs/loader.js:562:25)
    at Module.require (internal/modules/cjs/loader.js:692:17)
    at require (internal/modules/cjs/helpers.js:25:18)
    at /home/yahboom/.local/lib/python3.8/site-packages/jupyterlab/staging/yarn.
js:423:2576
    at Object.<anonymous> (/home/yahboom/.local/lib/python3.8/site-packages/jupy
terlab/staging/yarn.js:743:8770)
    at Module._compile (internal/modules/cjs/loader.js:778:30)
    at Object.Module._extensions..js (internal/modules/cjs/loader.js:789:10)
    at Module.load (internal/modules/cjs/loader.js:653:32)
    at tryModuleLoad (internal/modules/cjs/loader.js:593:12)

[I 2023-09-15 15:37:31.113 ServerApp] Package jupyterlab took 0.0000s to import
[I 2023-09-15 15:37:31.120 ServerApp] Package jupyter_lsp took 0.0062s to import
[W 2023-09-15 15:37:31.120 ServerApp] A `_jupyter_server_extension_points` funct
ion was not found in jupyter_lsp. Instead, a `_jupyter_server_extension_paths` f
unction was found and will be used for now. This function name will be deprecate
```

Password: yahboom

After successfully logging in, the following interface will appear.



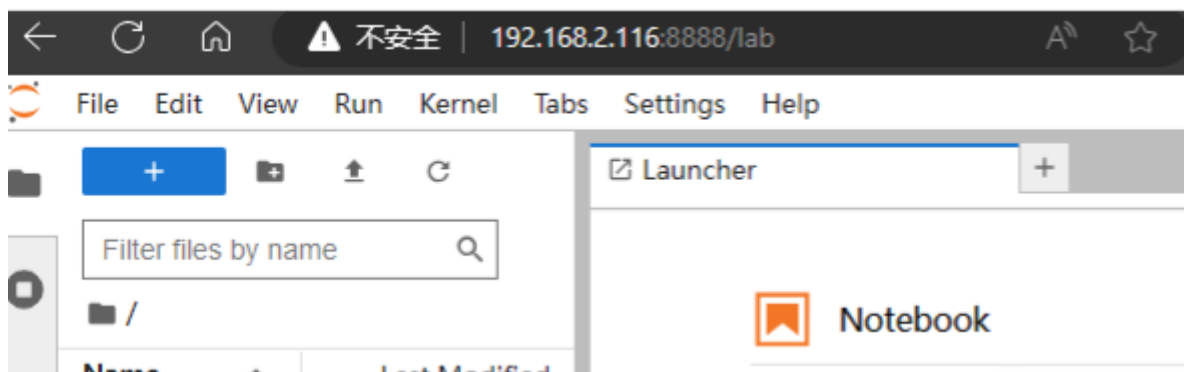
## 3.2 Remote start up

1. Check the current IP address of robotic arm, you can view it through the ifconfig command.
2. Make DOFBOT and your computer in the same LAN.

If our DOFBOT is connected to the same LAN as the PC network via WIFI, we can log in directly on the PC-side Google Chrome or other browser (DOFBOT IP address): 8888 to DOFBOT's Jupyter Lab,

for example: <http://192.168.2.116:8888>

192.168.2.116 is my DOFBOTIP address. You need to input your own IP address.



3.Password: yahboom

