

Jupyter Settings

Read in the browser:

https://ubiquitous-bladder-8a5.notion.site/Jupyter-Settings-cbe17f9bf9294771bd42d5e2667fa341

Preparation

The settings of Jupyter Notebooks

Preparation

- 1. Create a VM and associate a floating IP
- 2. Set Security Group default

The settings of Jupyter Notebooks

1. Create a new config

```
jupyter notebook --generate-config
```

```
ubuntu@haodong-zhao-temp:~$ jupyter notebook --generate-config
Writing default config to: /home/ubuntu/.jupyter/jupyter_notebook_config.py
ubuntu@haodong-zhao-temp:~$ vim /home/ubuntu/.jupyter/jupyter_notebook_config.py
```

2. Generate password

```
from notebook.auth import passwd
passwd()
```

```
ubuntu@haodong-zhao-temp:~/.jupyter$ python3
Python 3.8.10 (default, Nov 26 2021, 20:14:08)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> from notebook.auth import passwd
>>> passwd()
Enter password:
Verify password:
'argon2:$argon2id$v=19$m=10240,t=10,p=8$y6MyexqkgrHwKtASB6gGJQ$wq4P5k5+Aal762AfRklSH+9vJr3ScNoBf2lqqUSJt34'
>>> |
```

Copy the generated password.

2. Paste the generated password in the file

/home/ubuntu/.jupyter/jupyter_notebook_config.py . (Line 412)

4. Setup SSL

a. Generate the key in ~/.jupyter (ras needs to be 2048)

```
sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout mycert.pem -out mycert.pem
```

b. chown the permissions.

```
sudo chown ubuntu:ubuntu mycert.pem
```

```
ubuntu@haodong-zhao-temp:~/.jupyter$ sudo chown ubuntu:ubuntu mycert.pem
ubuntu@haodong-zhao-temp:~/.jupyter$ ll
total 72
drwx----- 2 ubuntu ubuntu 4096 Mar 7 19:16 ./
drwxr-xr-x 8 ubuntu ubuntu 4096 Mar 7 19:09 ../
-rw-rw-r-- 1 ubuntu ubuntu 54232 Mar 7 19:08 jupyter_notebook_config.py
-rw-rw-r-- 1 ubuntu ubuntu 26 Mar 7 19:16 migrated
-rw----- 1 ubuntu ubuntu 2941 Mar 7 19:15 mycert.pem
```

c. Set the path of the certfile and keyfile in

/home/ubuntu/.jupyter/jupyter_notebook_config.py.

```
## The full path to an SSL/TLS certificate file.
160 # Default: ''
161 c.NotebookApp.certfile = '/home/ubuntu/.jupyter/mycert.pem'
162
```

```
## The full path to a private key file for usage with SSL/TLS.

# Default: ''

C.NotebookApp.keyfile = '/home/ubuntu/.jupyter/mycert.pem'

## The full path to a private key file for usage with SSL/TLS.

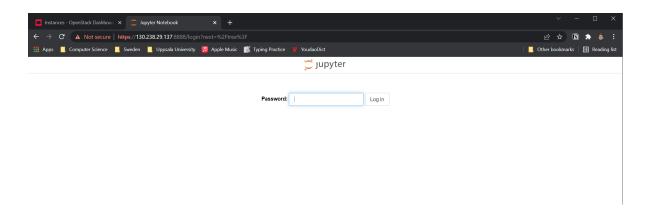
## C.NotebookApp.keyfile = '/home/ubuntu/.jupyter/mycert.pem'
```

5. Start Jupyter notebook

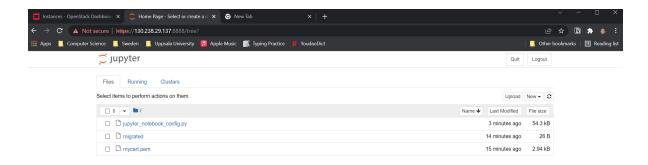
```
jupyter notebook --ip=* --no-browser
```

```
ubuntu@haodong-zhao-temp:-/.jupyter$ jupyter notebook --ip=* --no-browser
[I 19:30:14.611 NotebookApp] Serving notebooks from local directory: /home/ubuntu/.jupyter
[I 19:30:14.612 NotebookApp] Jupyter Notebook 6.4.8 is running at:
[I 19:30:14.612 NotebookApp] https://haodong-zhao-temp:8888/
[I 19:30:14.612 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
```

Replace the localhost or your hostname with your floating IP.



6. login successfully



Good luck!