How to run Jupyter (Data Science) on the Coding Institute Server

1. ssh into the server
2. make a `jupyter_data` directory in your home directory

```
$ cd ~
$ mkdir jupyter_data
```

3. give the `jupyter_data` directory full permissions (This allows the Jupyter docker container to read and write in that directory

```
$chmod 777 jupyter_data/
```

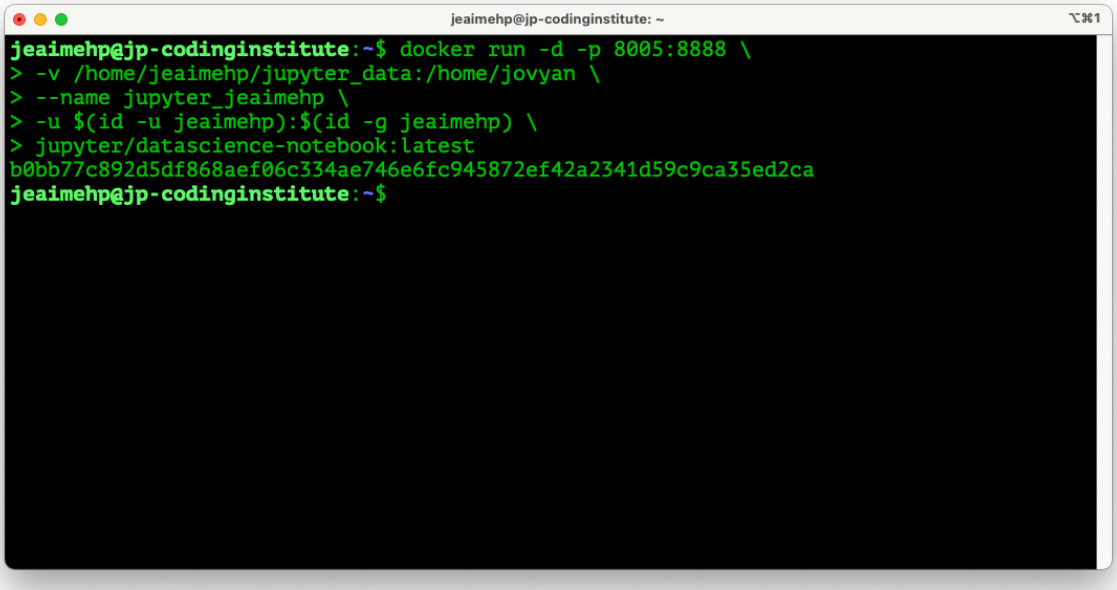
4. Pull the "jupyter datascience image"

```
$ docker pull jupyter/datascience-notebook
```

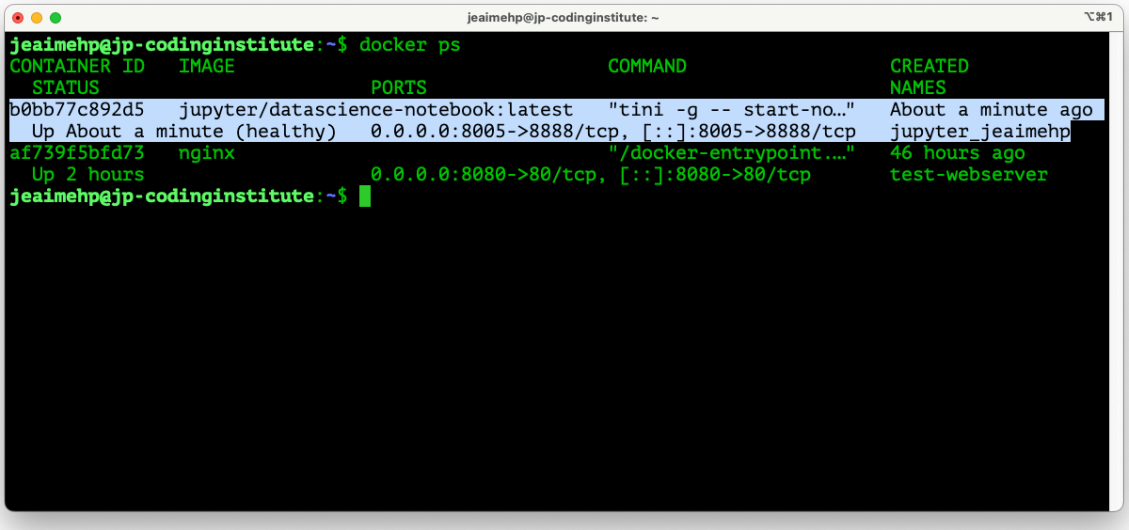
5. Run the "jupyter/datascience-notebook" sharing to the correct port and adding your users volume

   ```
   docker run -d -p <YOUR_PORT>:8888 \
   -v /home/<YOUR USERNAME>/jupyter_data:/home/jovyan \
   --name jupyter_<YOUR USERNAME> \
   -u $(id -u <YOUR USERNAME>):$(id -g <YOUR USERNAME>) \
   jupyter/datascience-notebook:latest
   ```

   Example for user "jeaimehp"

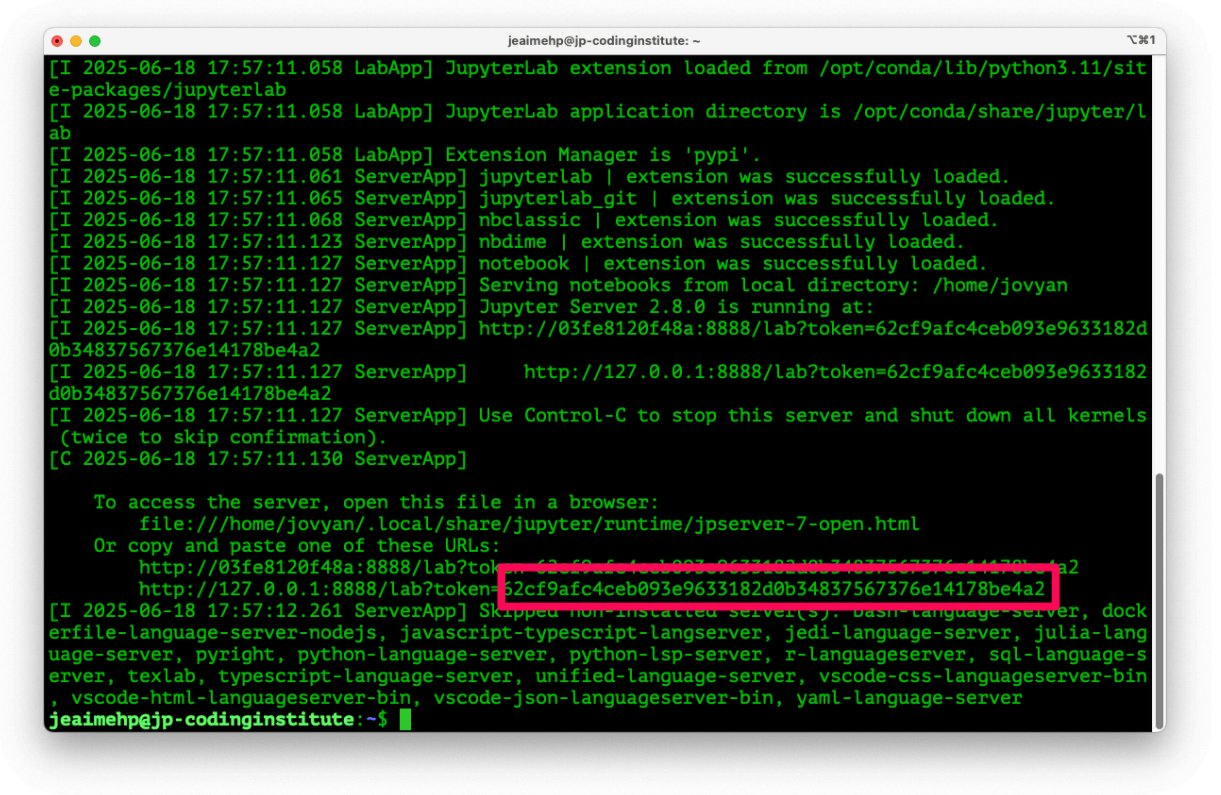


6. Check to make sure your docker instance started using `docker ps`



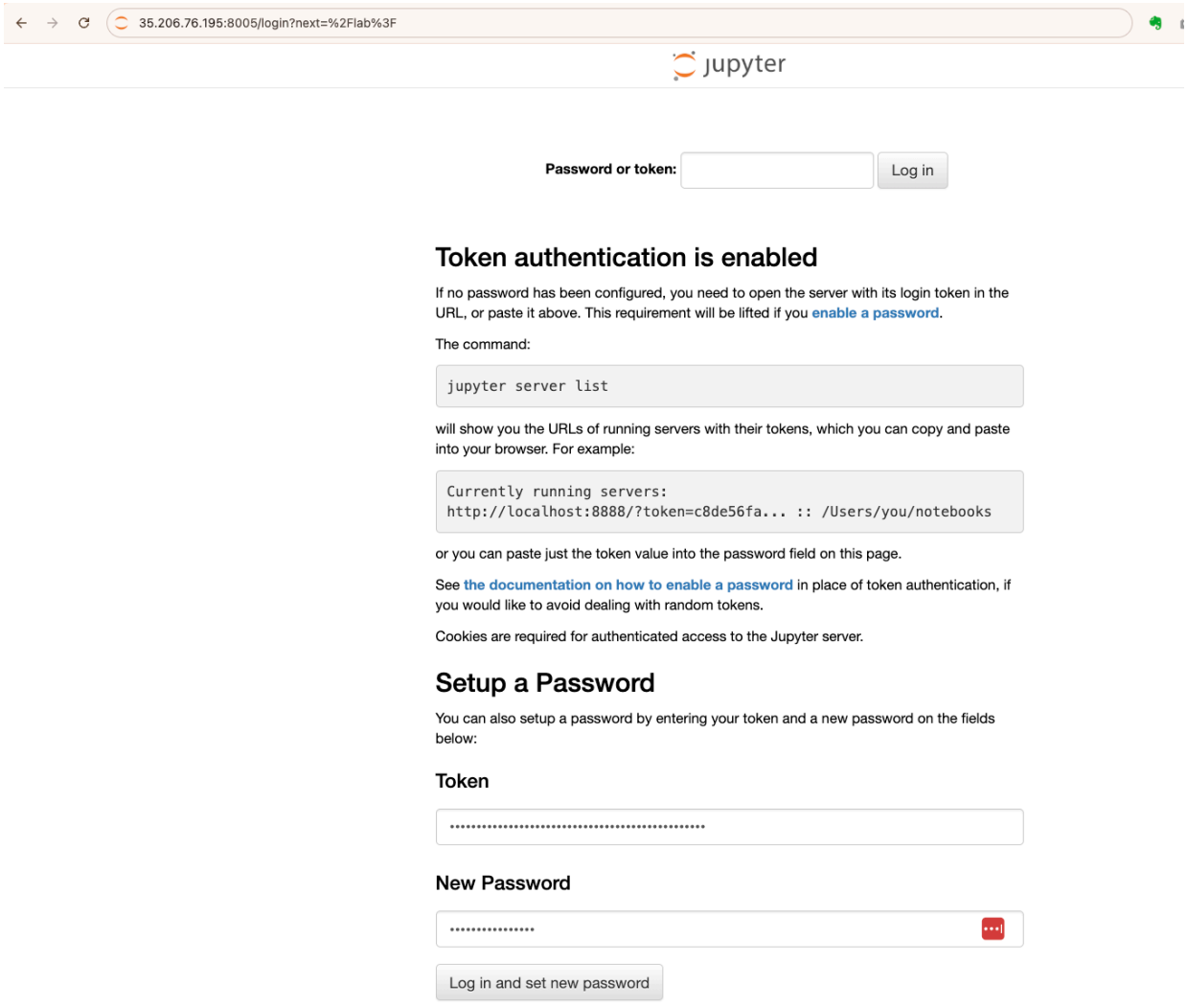
7. Get the token from `docker logs jupyter_<YOUR_USERNAME>` for your jupyter instance. I will be next to the line with " `http://127.0.0.1:8888/lab?token=` "

Example:

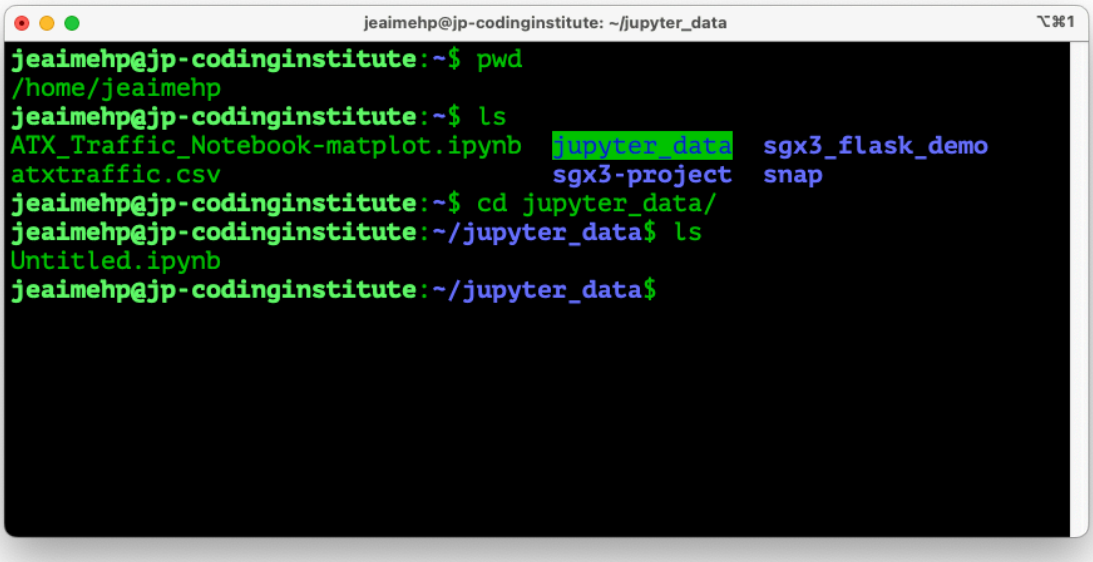


8. In a web browser go to the **<SERVER_IP>:<YOUR_PORT>**
9. In the "**Setup a Password**" section, paste in *your token* and then create a password and click "Login in and set new password"

Example:



10. Any notebooks or saved files will be in your `/home/<YOUR USERNAME>/jupyter_data` directory


jeaimehp@jp-codinginstitute: ~/jupyter_data
⌥⌘1
jeaimehp@jp-codinginstitute:~$ pwd
/home/jeaimehp
jeaimehp@jp-codinginstitute:~$ ls
ATX_Traffic_Notebook-matplot.ipynb jupyter_data sgx3_flask_demo
atxtraffic.csv   sgx3-project   snap
jeaimehp@jp-codinginstitute:~$ cd jupyter_data/
jeaimehp@jp-codinginstitute:~/jupyter_data$ ls
Untitled.ipynb
jeaimehp@jp-codinginstitute:~/jupyter_data$