

Reference

- [Jupyter Docker Stacks](#)

Select an image

jupyter/base-notebook

- Minimally-functional Jupyter Notebook server (e.g., no pandoc for saving notebooks as PDFs)
- Miniconda Python 3.x in /opt/conda
- No preinstalled scientific computing packages

jupyter/minimal-notebook

- Everything in jupyter/base-notebook
- Pandoc and TeX Live for notebook document conversion

jupyter/scipy-notebook

- Everything in jupyter/minimal-notebook and its ancestor images
- pandas, numexpr, matplotlib, scipy, seaborn, scikit-learn, scikit-image, sympy, cython, patsy, statsmodel, cloudpickle, dill, numba, bokeh, sqlalchemy, hdf5, vincent, beautifulsoup, protobuf, and xlrd packages
- ipywidgets for interactive visualizations in Python notebooks
- Facets for visualizing machine learning datasets

jupyter/tensorflow-notebook

- Everything in jupyter/scipy-notebook and its ancestor images
- tensorflow and keras machine learning libraries

Start to install

```
docker run -p 8888:8888 jupyter/tensorflow-notebook
```

If you see the output as follows, the installation has been successfully completed.

```
[I 08:06:45.922 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
```

```
[C 08:06:45.924 NotebookApp]
```

Copy/paste this URL into your browser when you connect for the first time,

to login with a token:

http://(5cb9602a2a30 or
127.0.0.1):8888/?token=e4c38ce33c5ea6f46792a9ae95d87f75a281300af4fcaf13

Verify the Jupyter

Open the firefox and go to the URL `http://server-ip-address:8888/?token=e4c38ce33c5ea6f46792a9ae95d87f75a281300af4fcaf13`

Ctrl + c to exit the docker console.

Create a script to start the jupyter service

run-jupyter.sh:

```
#!/usr/bin/env bash
LOCAL_DIR="$HOME/jupyter-tensorflow/work"
```

```
docker run -d --restart=always --name=jupyter \
-p 8888:8888 \
-v $LOCAL_DIR:/home/jovyan/work \
jupyter/tensorflow-notebook
```

docker ps

stop-jupyter.sh:

```
#!/bin/bash
NAME="jupyter"
```

```
docker stop $NAME
docker rm $NAME
docker ps
```

Change the permission of the scripts

```
chmod 0755 run-jupyter.sh stop-jupyter.sh
```

Manually Start Jupyter

Create the directory

```
mkdir -p jupyter-tensorflow/work
```

Start the jupyter:

```
./run-jupyter.sh
```

Get the token info:

```
docker logs --tail 3 jupyter
```

Stop the jupyter:

```
./stop-jupyter.sh
```