The following command built the docker image

sudo docker build . -t jupyter-astropy

The following command was used to run it

sudo docker run --rm -p 8888:8888 jupyter-astropy

Install docker

<https://www.digitalocean.com/community/tutorials/how-to-install-and-use-docker-on-ubuntu-16-04>

Data science jupyter

<https://www.dataquest.io/blog/docker-data-science/>

<https://jupyter-docker-stacks.readthedocs.io/en/latest/using/selecting.html#jupyter-datascience-notebook>

Building astropystack - py2

<https://hub.docker.com/r/pkgw/jupyter-py2-astrostack/>

Build anaconda based image

<https://dev-ops-notes.com/docker/build-python-data-science-docker-container-based-anaconda/>

The link above needs the following repo

<https://github.com/andreivmaksimov/python_data_science/>

<https://tsaprailis.com/2017/10/10/Docker-for-data-science-part-1-building-jupyter-container/>

See the following docker file here

# Use the latest ubuntu image as base for the new image  
# ubuntu is the image name and latest is a tag that   
# references a particular version of the image.  
# In this case latest is always the latest LTS image  
# at the time of writing this, it's 16.04.  
FROM ubuntu:latest  
  
# Run a system update to get it up to speed  
# Then install python3 and pip3  
RUN apt-get update && apt-get install -y python3 \  
 python3-pip  
  
# Install jupyter  
RUN pip3 install jupyter  
  
# Create a new system user  
RUN useradd -ms /bin/bash jupyter  
  
# Change to this new user  
USER jupyter  
  
# Set the container working directory to the user home folder  
WORKDIR /home/jupyter  
  
# Start the jupyter notebook  
ENTRYPOINT ["jupyter", "notebook", "--ip=\*"]

Command to build docker image using Dockerfile

$ docker build . -t jupyter

Get list of docker containers

$ docker images

$ docker run -it -p 8888:8888 ff2f03f5aaea /bin/bash

<https://docs.docker.com/docker-cloud/builds/push-images/>

The following NEW packages will be INSTALLED:

astropy-healpix: 0.2-py36h7eb728f\_0 conda-forge

reproject: 0.4-py36\_0 conda-forge

Downloading and Extracting Packages

Preparing transaction: ...working... done

Verifying transaction: ...working... done

Executing transaction: ...working... done

Removing intermediate container 58be7196604e

---> a36fbb3848df

Step 4/11 : RUN ["mkdir", "notebooks"]

---> Running in 0bbaf5cab886

Removing intermediate container 0bbaf5cab886

---> 89592d87e767

Step 5/11 : COPY jupyter\_notebook\_config.py /root/.jupyter/

COPY failed: stat /var/lib/docker/tmp/docker-builder471060293/jupyter\_notebook\_config.py: no such file or directory