Unit 1.4: Graded Assignment 4

Peer Members:

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Assignment:

●Build an image based on Jupyter Notebook (jupyter/minimal-notebook) with Pandas installed (pip install pandas)

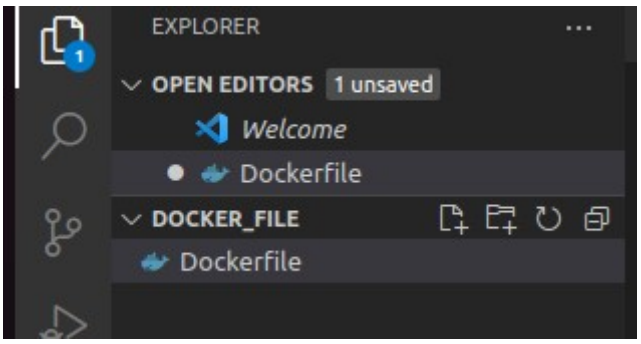
●Create a container from this image and use the NOTEBOOK_ARGS=--port=8889 environment variable to change the port Jupyter is exposed on

●Verify you can access it on port 8889 and that Pandas is installed (type import pandas in a notebook).

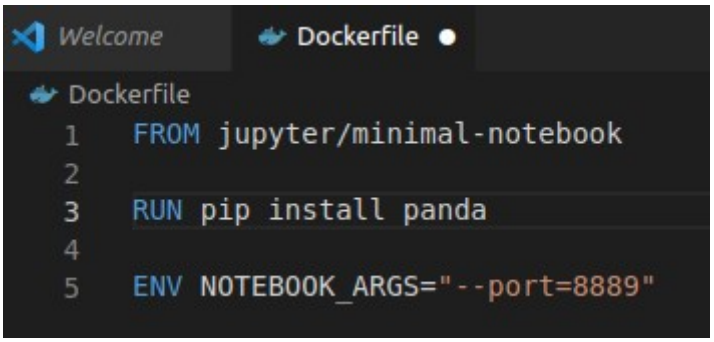
Solution:

Step 1:

Create a “Dockerfile” in VSCODE.

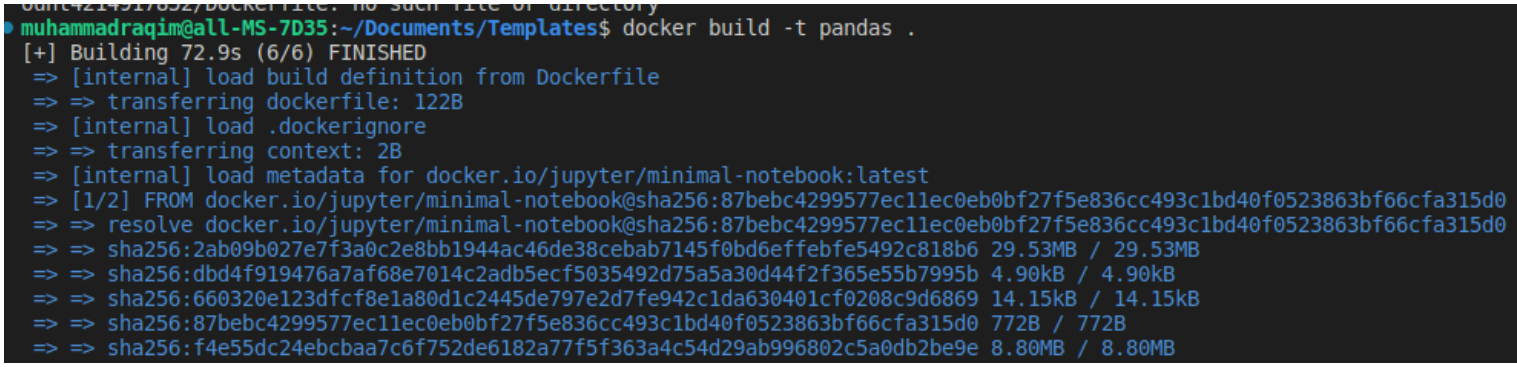


Step 2:
Using FROM select base image, using RUN install dependencies and using ENV is used to set an environment variable named `NOTEBOOK_ARGS` and its value to `--port=8889`.

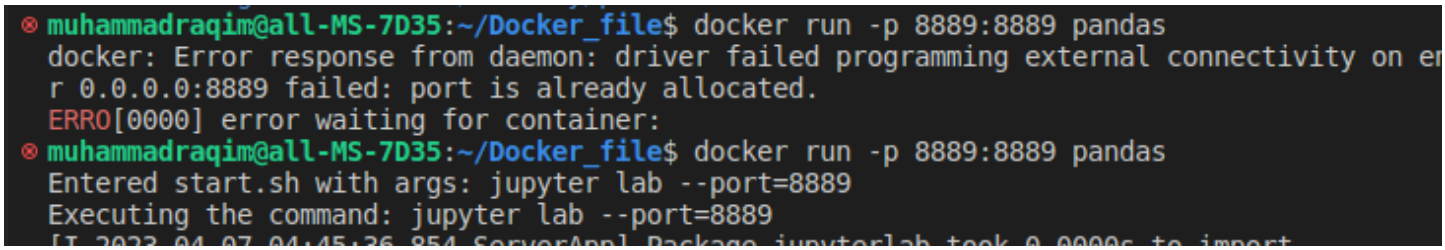


Step 3:

Using build command, we build the new image having tag pandas.

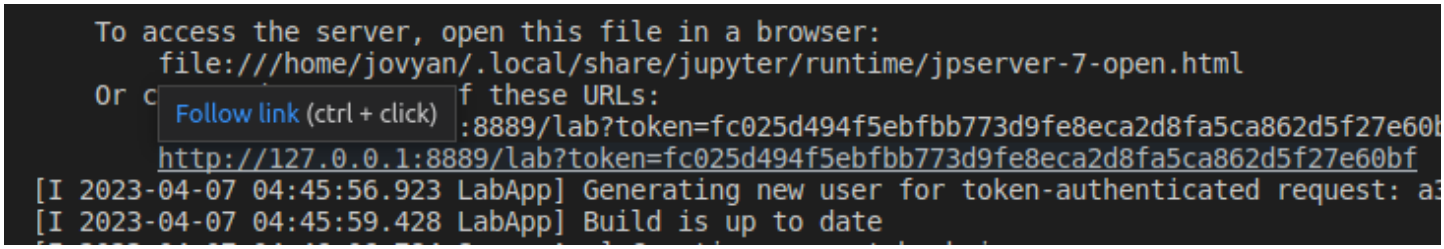


Step 4:
Using run, we run the image named pandas on given ports.



Step 5:

Click on generated link and open it in chrome.



Step 6:

Check in Jupyter Notebook whether the library pandas is installed successfully