GettingStartedMDPR613

March 29, 2022

1 Setting Up JupyterHub for MDPR 613

1.1 Logging into JupyterHub on TALC

To load an interactive JupyterHub instance on talk, go to http://talc.ucalgary.ca/ while either on a University of Calgary campus's WiFi connection, or while on the University of Calgary's FortiClient VPN. Instructions on how to set up the latter are available at https://rcs.ucalgary.ca/Connecting_to_RCS_HPC_Systems#Connecting_to_the_University_IT_General_VI

1.2 Setting Up the Directory

Once logged in to the JupyterHub web page, create a folder named MDPR_613 via the following:

- 1. Click New on the top right of the web page
- 2. Select Folder. This should result in a new directory called Untitled Folder appearing
- 3. Select the checkbox next to the folder
- 4. Click Rename at the top left of the web page, and name it MDPR_613

1.3 Loading the Workspace Environment

You should now be able to navigate inside the directory by double clicking on it. Do so, and upload the environment.yml using the upload button on the top right of the web page. Once it has been uploaded, do the following to load this notebook with our programming environment:

- 1. Open a terminal by clicking New -> Terminal
- 2. Type the following into the terminal, and hit enter: conda env create -n MDPR_Course --file environment.txt. This will create an environment with all the packages specified within environment.txt. This can take several minutes to run; be patient, and accept the install request when prompted
- 3. Once the prior process is done, activate this clean environment with source activate MDPR_Course. This should change the terminal so that (MDPR_Course) appears to the left of your username on the terminal
- 4. You can then enable Jupyter to use this environment with the python -m ipykernel install --user --name=MDPR_Course command

1.4 Running the Notebook with the Environment

Once the environment is set up and made accessible to Jupyter, we can then request that a notebook uses it by selecting it as our 'kernel'. To do so, do the following when you have a Jupyter Notebook open in your web browser:

- 1. Select Kernel from the menu along the top of the Notebook
- 2. From the resulting drop-down menu, select Change Kernel -> MDPR_Course

All future notebooks should load this kernel when loaded from now on, including this one. If everything was done correctly, the following code should produce the string 1.1.3 when run (rather than the 0.23.4 shown below). To run the code, select it and press Shift + Enter.

```
[1]: import pandas as pd pd.__version__
```

[1]: '0.23.4'