Computation Platform Access and Setup

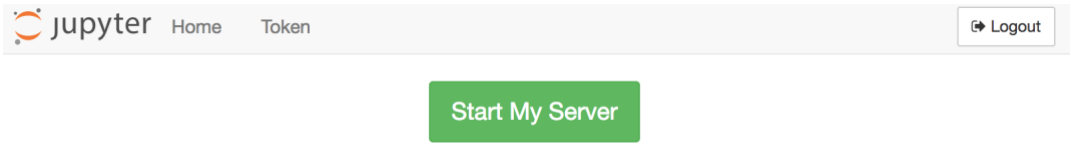
We provide a JupyterHub platform to host the computation environment for this course. You will be required to complete all computation assignments, including mini-projects, on this portal. Submission instructions are also provided in this document (at the end).

Setup and Access

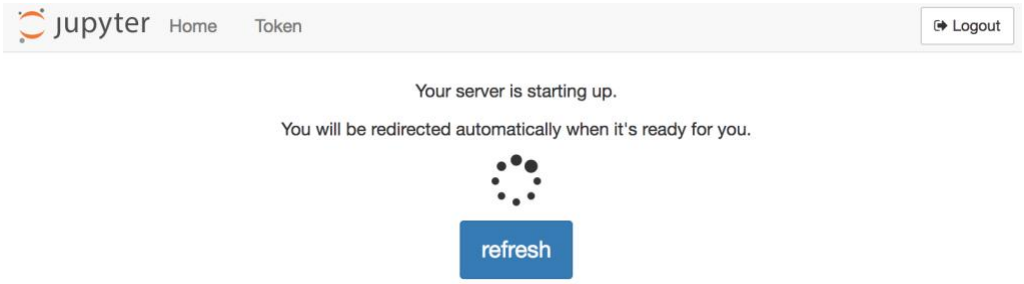
1. Visit github.mit.edu and sign-in. This is Github Enterprise for MIT and it federates with the MIT authentication.
2. Now visit **mit-6s077.mit.edu** This is the current dns of our portal.
3. Click on the Orange button which says Sign-In with Github. Authenticate with your MIT credentials/certificate and allow our portal to authenticate via Github.

4. At the end, you might see a **400: bad request** on the webpage. Ignore this. And visit mit-6s077.mit.edu again and follow the step 3 one more time.

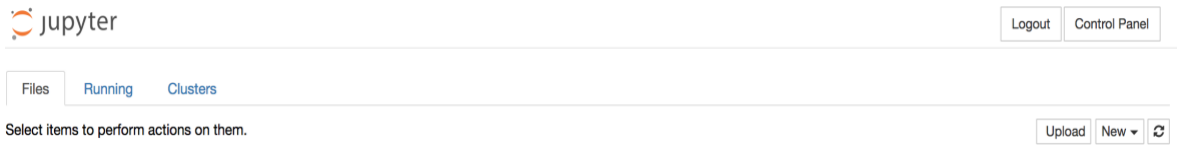
5. Now you should see a webpage page. This page is the Jupyterhub deployment. You should see a button saying “Start Server”. Please click on it.



6. You will now see a blue button which tells you that your server is starting. This may take several minutes (could be as long as 10-12 mins). Wait for this to finish.



7. After this process ends, you should see a Jupyterhub layout with tabs called “Files”, “Running”, “Clusters” etc.



8. Now, in the same browser window, **copy and paste** (do not click) the following url:
http://mit-6s077.mit.edu/hub/user-redirect/git-sync?repo=https://github.com/jehangiramjad/mit-6s077&subPath=Pset0

   Success is if you can see some files including **ps0.ipynb**. This (the .ipynb notebook) is your first problem set (which is not due).

9. Visit the homepage again (mit-6s077.mit.edu) and you should see a directory called **mit-6s077/** and within this a folder called **Pset0/** and under that you the same files as in step 8. This (the .ipynb notebook) is your first problem set (which is not due).

Working on Assignments

You computation assignments will be contained in the .ipynb files (Jupyter notebooks). Work through the notebook and submit your code and text answers in the spaces provided.

Note that while working on the .ipynb files, you can modify any/all content. We advise that you do not modify the assignment prompt and it is your responsibility to ensure that all questions are answered and in their respective order. We will also provide a pdf version of the assignment for you to ensure that you have answered everything.

In case you want to revert back to the original assignment specifications in the notebook, you can do one of the following:

A. Rename File

1. Rename the .ipynb file that you are working on. Save it.
2. Visit the assignment url again. Specifically, for Pset0, visit the url below (copy and paste!): **mit-6s077.mit.edu**/hub/user-redirect/git-sync?repo=https://github.com/jehangiramjad/mit-6s077&subPath=Pset0
3. You should see that your renamed file is still present but the original assignment notebook is back and reflects the version we originally provided to you.

B. Refresh with Merge

1. Save your current work (using the File > Save option).
2. Visit the assignment url again.
3. The portal will try to merge your work with the assignment spec on the server. Usually, the merge works well. However, it will always give priority to your code and changes. Therefore, if you have made several changes and do not want to deal with merge conflicts, follow the instructions above (Rename File).
   *If you are confused, feel free to ask a TA or post on Piazza to ask before making changes.

Note that if we make changes to the assignment, we will ask you to visit the assignment url again (to get the latest copy). In that case, you will have to follow either of the two steps above.

Submission

You will submit all computational parts of problem sets, and the mini-projects, in the following manner:

1. Complete the Assignment on the portal;
2. Save your work (File > Save and Checkpoint);
3. Download the Notebook (File > Download as > Notebook);
4. Download the pdf (File > Download as > pdf via LaTex);
5. Submit both the .ipynb and .pdf files on Stellar.