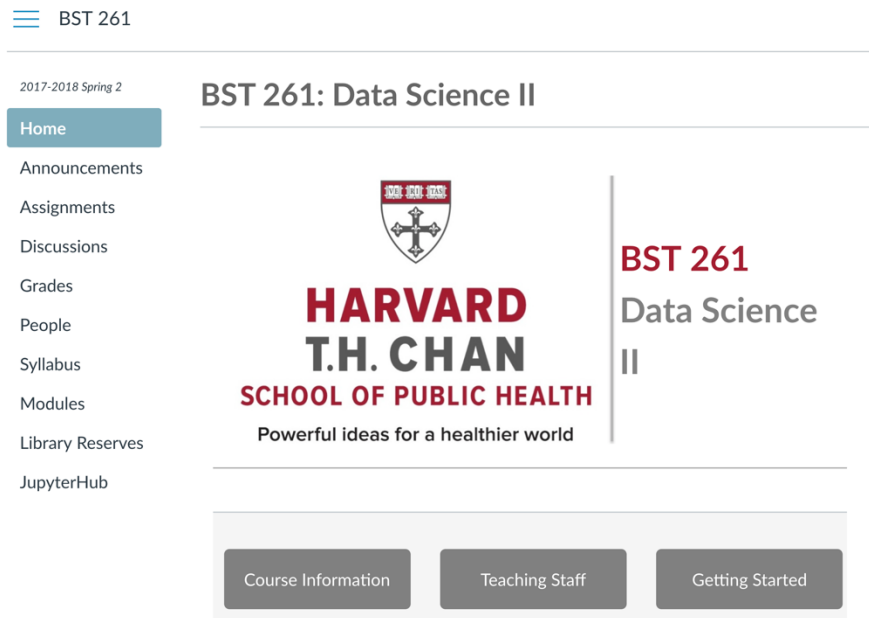


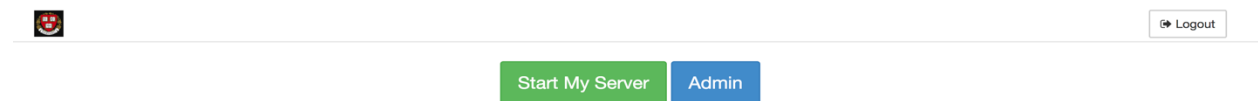
JupyterHub Instructions

1. Log into Canvas and click on the “JupyterHub” tab.



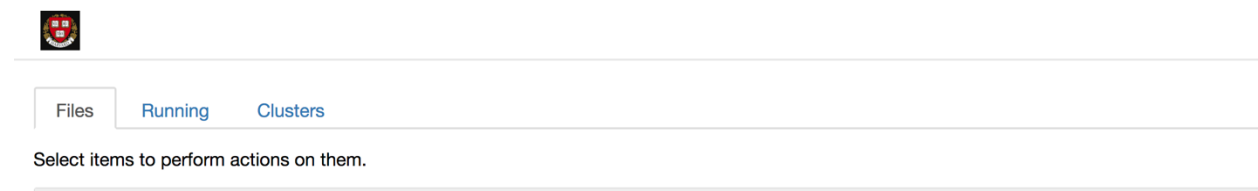
The screenshot shows the Canvas LMS interface for the course BST 261. At the top, there is a navigation bar with a hamburger menu icon and the text "BST 261". Below this, the course title "BST 261: Data Science II" is displayed. On the left, a sidebar menu lists various course components: Home (highlighted), Announcements, Assignments, Discussions, Grades, People, Syllabus, Modules, Library Reserves, and JupyterHub. The main content area features the Harvard T.H. Chan School of Public Health logo and the text "Powerful ideas for a healthier world". To the right of the logo, the course title "BST 261 Data Science II" is repeated. At the bottom, there are three buttons: "Course Information", "Teaching Staff", and "Getting Started".

2. Press the “Start My Server” button and wait for up to 2 minutes. You will be taken to a new page.



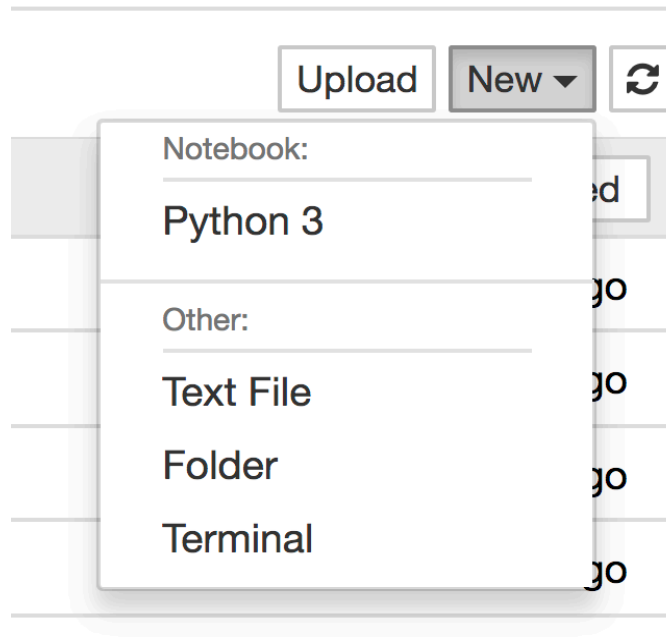
The screenshot shows the JupyterHub interface. At the top left is a small Harvard logo. At the top right is a "Logout" button. In the center, there are two buttons: "Start My Server" (green) and "Admin" (blue).

3. It should look something like this and have a jupyter.log file in it.

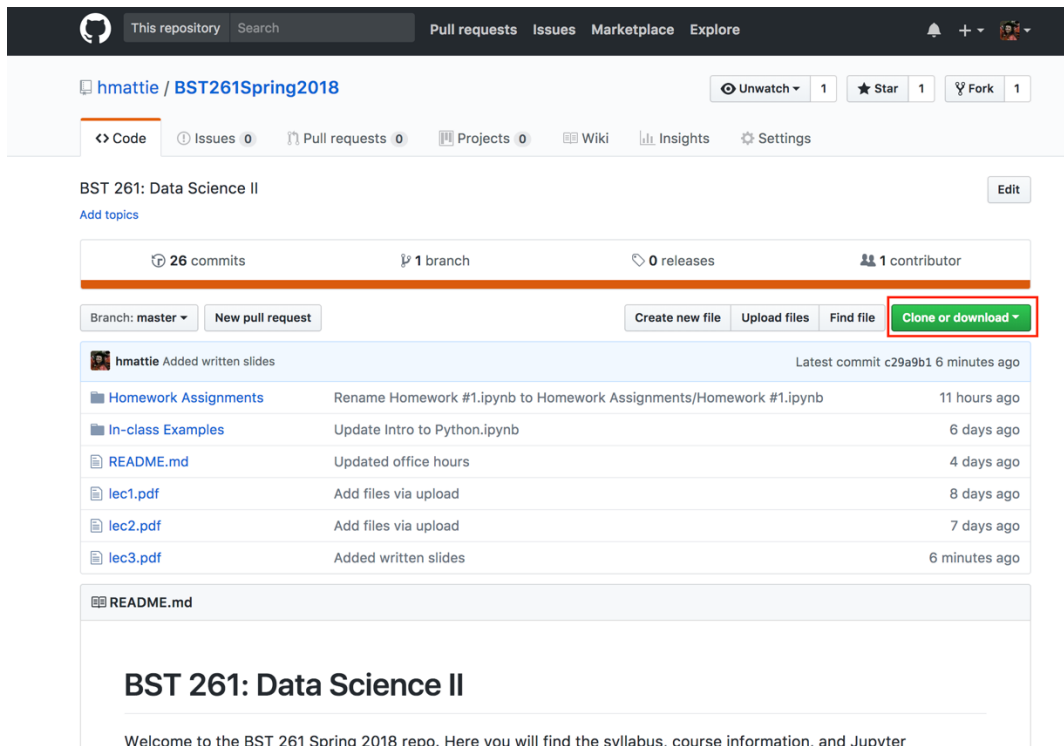


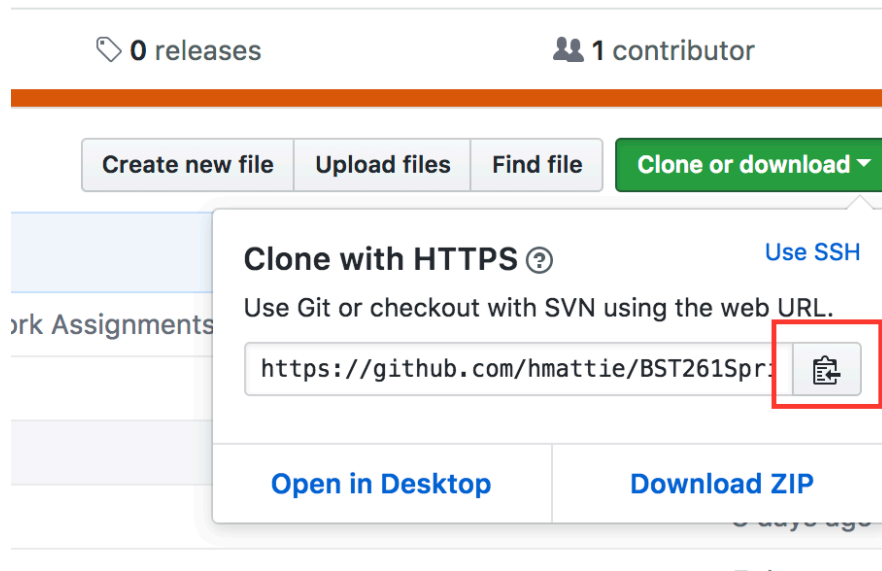
The screenshot shows the JupyterLab interface. At the top left is a small Harvard logo. Below it, there are three tabs: "Files", "Running" (highlighted), and "Clusters". Below the tabs, the text "Select items to perform actions on them." is displayed. The main content area is currently empty.

- On the right side, click on the “New” dropdown menu and select “Terminal”.

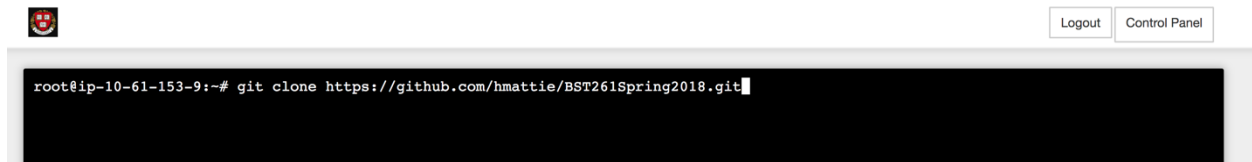


- Before typing anything into the terminal, go to the course github and copy the repository link. Click on the “Clone or download” button and then the clipboard button. This will copy the link to the repository.






- Go back to the terminal and type: “git clone” and then paste the repository link. Then press Enter.



- If you close the terminal window and go back to the JupyterHub window, you should now see a folder with the name of the repository. You can now access all of the Jupyter notebooks that have been uploaded to the course github.



8. In order to have the most up to date versions of the files in the repository, you will need to update the folder in your JupyterHub. To do this, open terminal again, and type “git pull”. This will pull all of the new files on the course github and upload them to your JupyterHub. After that, you can close the terminal window and go back to your JupyterHub to access all of the new files.




Logout Control Panel

```
root@ip-10-61-153-9:~# cd BST261Spring2018/
root@ip-10-61-153-9:~/BST261Spring2018# git pull
Updating 8925f21..c29a9b1
Fast-forward
 Homework Assignments/Homework #1.ipynb | 626 +++++
 In-class Examples/Intro to Python.ipynb | 2 +-
 README.md                               | 4 +-
 lec3.pdf                                | Bin 0 -> 4091490 bytes
4 files changed, 629 insertions(+), 3 deletions(-)
create mode 100644 Homework Assignments/Homework #1.ipynb
create mode 100644 lec3.pdf
root@ip-10-61-153-9:~/BST261Spring2018#
```


9. Something to note: if you make changes to any of the files in the folder and then later try to get the latest version of the files using “git pull”, it will give you an error. This is because you have altered the original files and if you upload the newest files, it will overwrite the files you have altered. Thus, git won’t let you upload any updated or new files. To get around this, create a new folder in your JupyterHub. For example: “BST261Copy”. Then, for any of the files you want to change (take notes in for example), select the file, and click “Duplicate”, and then “Duplicate” again when asked if you’re sure. This will make a copy of the file.





Files Running Clusters


Duplicate Rename Move Download View Edit 


1

 / **BST261Spring2018** / **In-class Examples**

 ..

☒  2.1-a-first-look-at-a-neural-network.ipynb

☐  2.2-tensors .ipynb

☐  Intro to Python.ipynb

Duplicate

Are you sure you want to duplicate: "2.1-a-first-look-at-a-neural-network.ipynb"?

Cancel

Duplicate

10. Now select the copy file you just created and click on “Move”. Erase the folder name and type the name of the new folder you created (ex: BST261Copy), and then click “Move” again. This will move the copied file into that folder. Now you can alter any files in the new folder, but keep the original files untouched. This way you won’t encounter an error when trying to pull the latest version of the course github repository.

Move an Item

Enter a new destination directory path for this item:

/home/ubuntu

/BST261Copy

Cancel

Move