synch_01

UCB MIDS W205 Summer 2018 - Kevin Crook's agenda for Synchronous Session #1

Introductions

Review the syllabus and the instructor's syllabus supplement

Ensure that everyone has gone through the "Checklist Before Your First Synchronous Class Meeting"

Connect to your droplet

Your instructor will send you via slack your droplet ip address, username, and password.

Windows Users will need to use a terminal emulator such as PuTTY [https://www.chiark.greenend.org.uk/~sgtatham/putty/]. There are two options, 1) an install or 2) downloading a zip file, unzipping, and running in place. Option #2 is recommended. Please be sure you unzip before trying to run it.

Mac Users will use the terminal with ssh

```
ssh username@<ip address>
```

Please be sure you manually type in both the username and password keystroke by keystroke (do not paste, it will not work!)

Breakout: ensure that everyone is connected to their droplet

Run docker with the mids image in your droplet and test the directory mount

```
docker pull midsw205/base
```

```
mkdir w205
```

```
docker run -it --rm -v /home/science/w205:/w205 midsw205/base:latest bash
```

```
df -k
```

```
vi myfile.txt
```

Breakout: save the file. open another terminal window. verify that myfile.txt show up both in docker and in the droplet. exit docker and verify the file outlives the container. create a new docker container and verify it is present.

```
exit or control-d to exit the container
```

Using git command line inside the container, clone the course content repo, go over how to update it (be sure and do this inside the docker container!)

```
docker run -it --rm -v /home/science/w205:/w205 midsw205/base:latest bash
```

Review how to properly copy a repo link using GitHub.

```
git clone <repo>
```

The course content repo gets frequently updated. It's a best practice to always update the course-content repo. Also, do not make any changes to this directory, as you will not be able to update it.

```
cd ~/course-content
```

```
git pull --all
```

Breakout: ensure that everyone has properly cloned their repo inside the docker container and can update it

```
exit or control-d to exit the container
```

Walk through assignment-00

```
docker run -it --rm -v /home/science/w205:/w205 midsw205/base:latest bash
```

Retrive you repo for assignment-00 using the technique previously demonstrated and clone it:

```
git clone <repo>
```

```
cd <repo>
```

```
git status
```

```
git branch assignment
```

```
git status
```

```
git checkout assignment
```

```
git status
```

```
vi README.md
```

```
git status
```

```
git add README.md
```

```
git status
```

```
git commit -m "change to README.md"
```

First time you commit to a repo, it asks you to set your email and username, if you have not done so already:

```
git config --global user.email "you@email.com"
git config --global user.name "Your Name"
```

```
git commit -m "change to README.md"
```

```
git status
```

```
git push origin assignment
```

```
git status
```

Using GitHub, verify the main branch is untouched, verify the assignment branch exists, verify no other branches exist, verify committs only to the assignment branch.

Breakout: ensure that everyone has done the above

Exit the container, create a new container of the same, make another simple change to the branch and commit it.

Using GitHub, create 1 and only 1 pull request to your instructor on the last commit of the assignment branch.

Breakout: ensure that everyone has followed the above instructions. Verify each other's repos.

assignment-01 getting started

For assignment-01, let's create a docker container, clone the repo, create an assignment branch, checkout the branch, make a simple change to the README.md, stage the change, commit the change to the branch, push the branch to GitHub. Do not create a pull request until your last commit and you are ready to submit.

Breakout: ensure that everyone has followed the above instruction. Verify each other's repos.