Payton Knoch

CS 491 Final Project

Setup Documentation

1. Make sure Docker is installed
2. If the container is not already installed locally, run:

docker pull payton222/finalproject-blueocean:1.2

1. Ensure that you have pulled from the repository “cs-491-finalproject” from GitHub for payton22
2. Open “container\_startup\_existing.bat” in a text editor and change the line that reads “--volume C:\Users\pjkno\OneDrive\:/home ^” to “—volume [your host machine home directory]:/home
3. Run the “container\_startup\_existing” batch script on Windows
4. Go to localhost:8080 and log into Jenkins, if no account is created follow the Jenkins tutorial provided by Jenkins to create a user account
5. Go to the Jenkins admin page 🡪 new item 🡪 pipeline and enter the name for the pipeline
6. Change the “definition” from “Pipeline script” to “Pipeline script from SCM” and under “SCM” change it to “Git”
7. Under repository URL, enter the path to your local copy of the cs-491-finalproject repo. Note that this must be linked to the mounted filesystem within the Docker container (modified path in Step 4) and must be accessible within the Docker container)
8. Run “docker exec -t -i [ID for finalproject-blueocean:1.1] /bin/bash
9. cd into the virtual env within cs-491-finalproject and activate it with “source path-to-cs-finalproject/venv/bin/activate”

**NOTE: Steps 12 and 13 are only required if the aws cli is not logged into my AWS account. This can be verified by running aws s3 ls where activity11bucket should be listed**

1. Log into Payton’s amazon s3 bucket and start a new user session from the IAM management console (IAM🡪 Users 🡪 payton22 🡪 Security credentials 🡪 create access key, then download the keys provided as a CSV file
2. Within the Docker container, run “aws configure” and enter the credentials provided by the CSV file, then enter us-west-1 as the region and text as the type
3. Exit out of the Docker container
4. In Jenkins, click “Open Blue Ocean” 🡪 [name of your Jenkins pipeline] 🡪 Run
5. Open the running task. When it reaches the “Sanity check” stage, it will ask if you would like to proceed. Click “Proceed.”
6. Log back into my AWS account, click on S3, then go to the Activity11bucket
7. Download the Python executable that was just uploaded by Jenkins
8. **Repeat step 15 as changes are made to the program for continuous, one-click testing and deployment. Go to the S3 bucket to get the updated file for each rerun of step 15**