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Kura Labs - Deployment 02

Project Outline:

To understand the components of a simple CI/CD pipeline and to manipulate the same.

Step 1: Fork Original Repository

Original: https://github.com/kura-labs-org/kuralabs_deployment_2

Fork: https://github.com/dacostaration/kuralabs-deployment-2

i. Create a personal access token to be used by Jenkins server

Step2: Instantiate an EC2 Instance

i. Install Jenkins

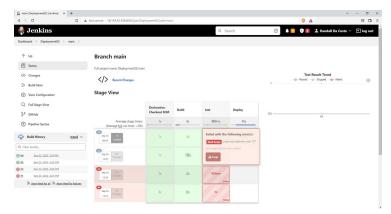
- ii. Set up web hook in GitHub repository to automatically receive repo updates and trigger build process
- iii. Install EB CLI in order to trigger Elastic Beanstalk creation from eventual Jenkins build

a. EB Environment name: Deployment02-main-dev

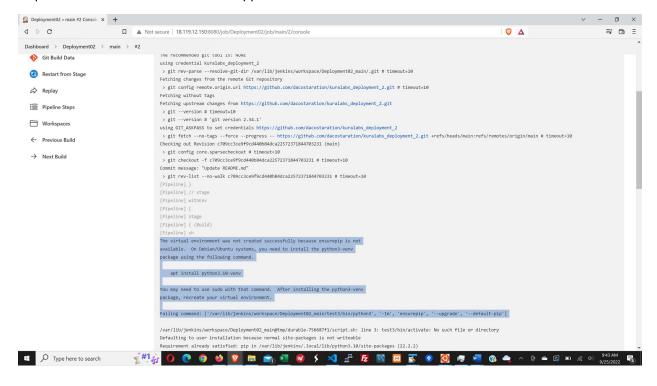
Step 3: Modify Jenkinsfile & test procedures

- i. Add deployment stage to Jenkinsfile
- ii. Modify "test_app.py" to add new functions and assertions to pytest flow

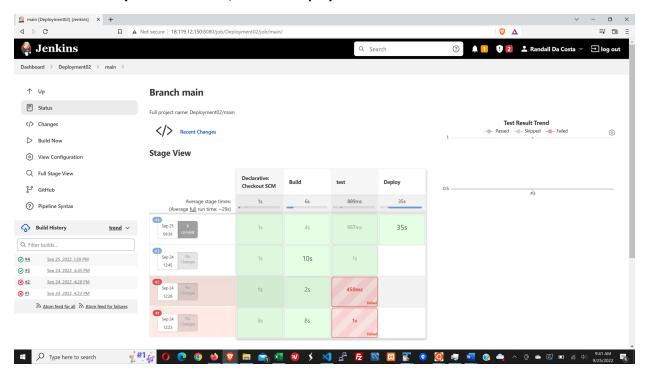
Step 4: Test Jenkins Build, Test and Deployment Processes



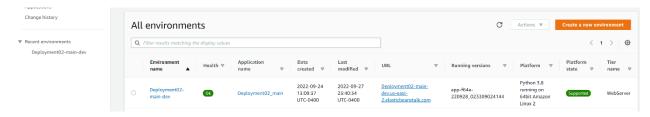
Observed initial test and deployment failure due to not having installed pip-env environment. This is required for Jenkins to run the Flask app.



Observe ultimately successful Build, Test and Deployment:



Successful Creation of Environment in AWS Elastic Beanstalk



Successfully Deployed Web Application

http://deployment02-main-dev.us-east-2.elasticbeanstalk.com/

Note: App display has been updated to be slightly different from the original

