Project 2

You have been hired as a Sr. DevOps Engineer in Abode Software. They want to implement DevOps Lifecycle in their company. You have been asked to implement this lifecycle as fast as possible. Abode Software is a product-based company and their product is available on this GitHub link.

https://github.com/hshar/website.git

Following are the specifications of the lifecycle:

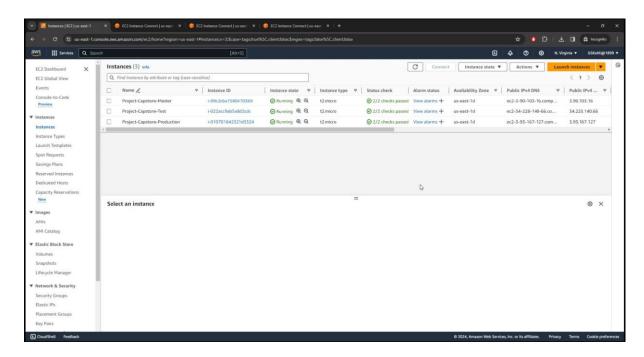
- 1. Install the necessary software on the machines using a configuration management tool
- 2. Git workflow has to be implemented
- 3. Code Build should automatically be triggered once a commit is made to master branch or develop branch.
 - a. If a commit is made to master branch, test and push to prod
 - b. If a commit is made to develop branch, just test the product, do not push to prod
- 4. The code should be containerized with the help of a Dockerfile. The Dockerfile should be built every time there is a push to GitHub.
- 1. Use the following pre-built container for your application: hshar/webapp
- 2. The code should reside in '/var/www/html'
- 5. The above tasks should be defined in a Jenkins Pipeline with the following jobs:

a. Job1: build

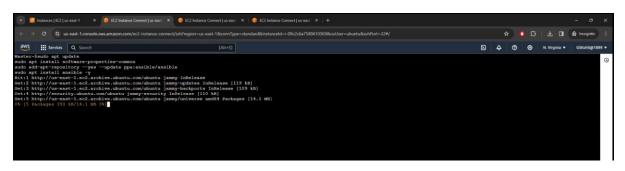
b. Job2: test

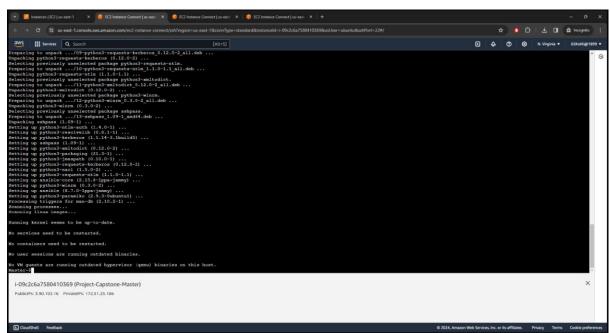
c. Job3: prod

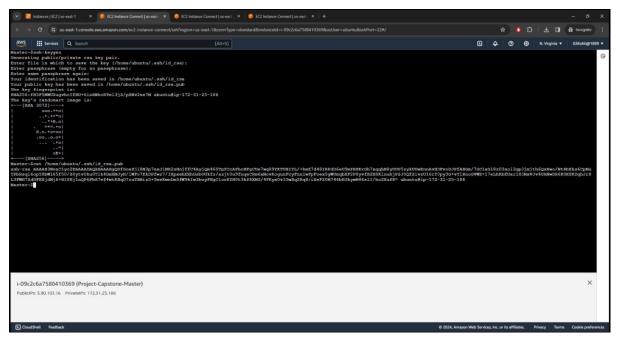
1. Setup 3 EC2 Master, Test and Production

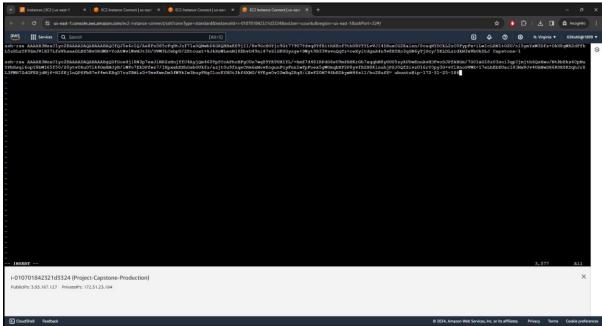


2. Installing and configuring Ansible on Master.

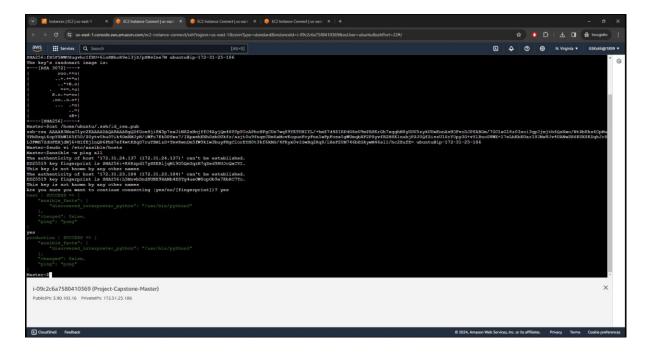




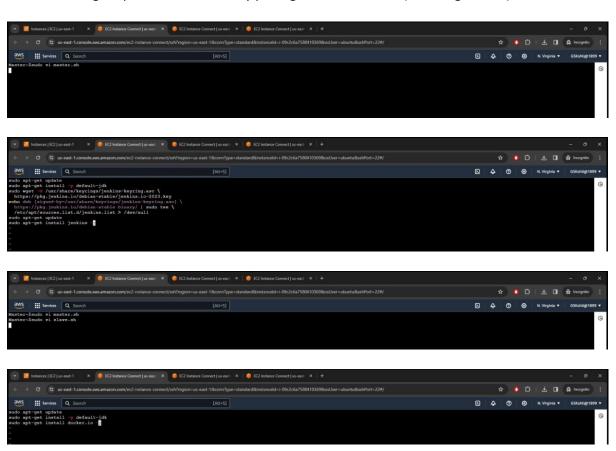




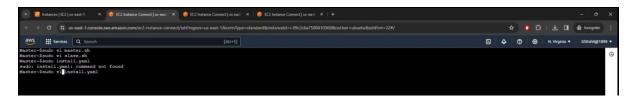


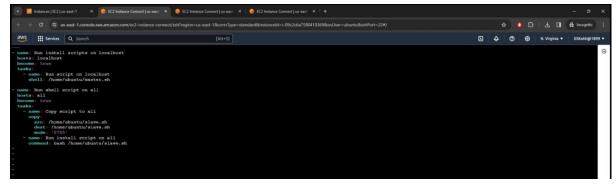


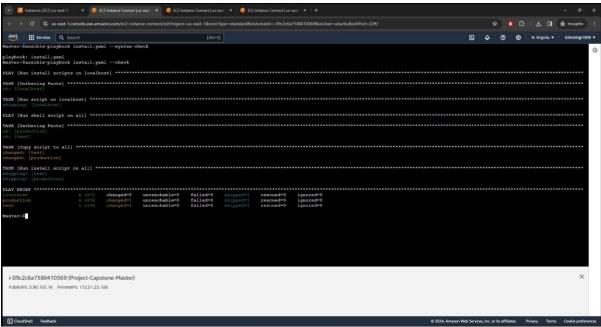
3. Making script to install necessary packages on all machine (including master)

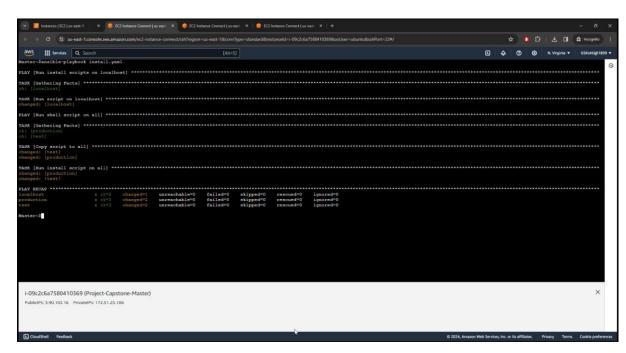


4. Creating yaml script to run installation script

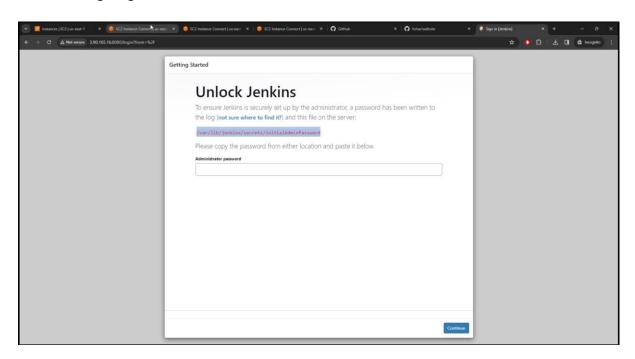


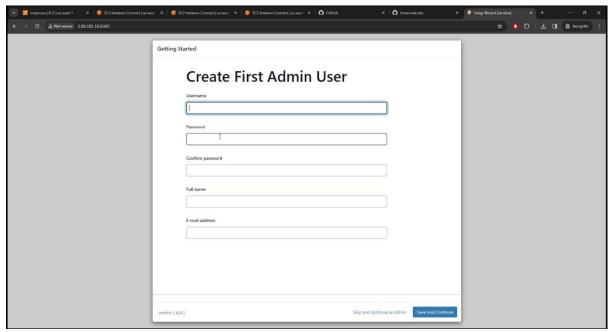


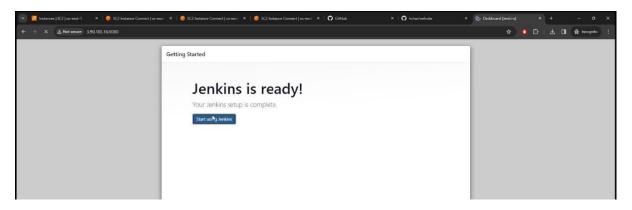


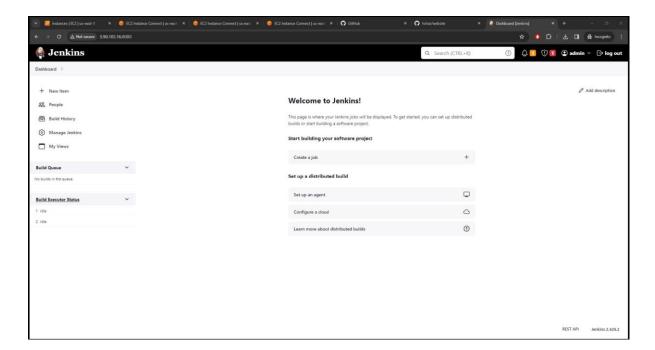


5. Configuring Jenkins

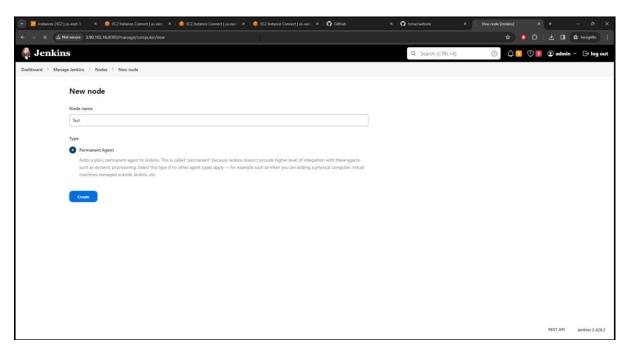


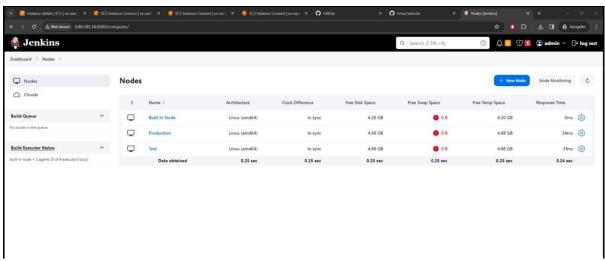




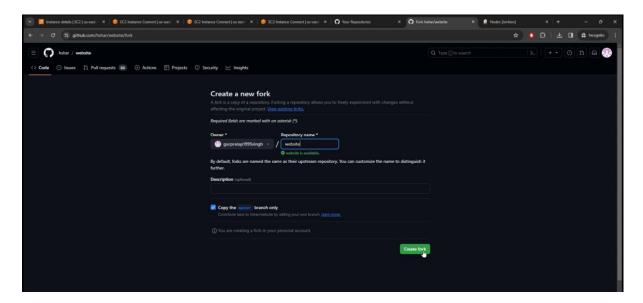


6. Adding nods (Test and Production)

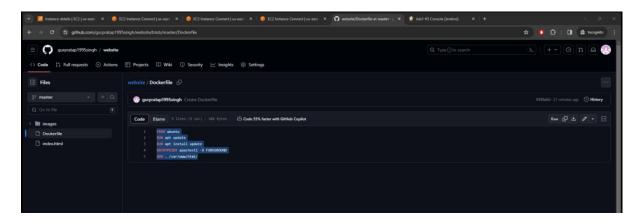




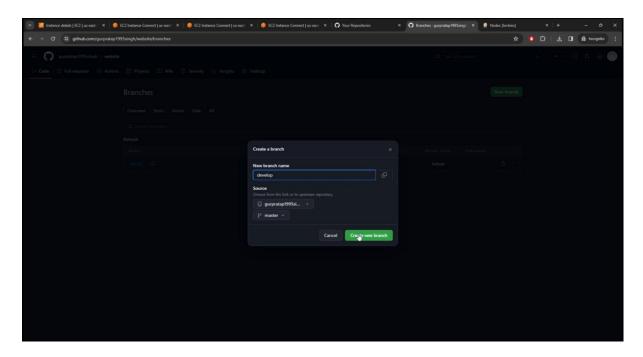
7. Cloning git repository



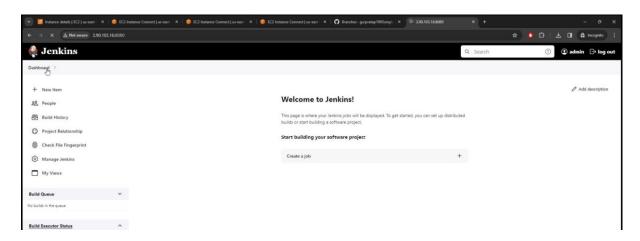
8. Adding Docker file

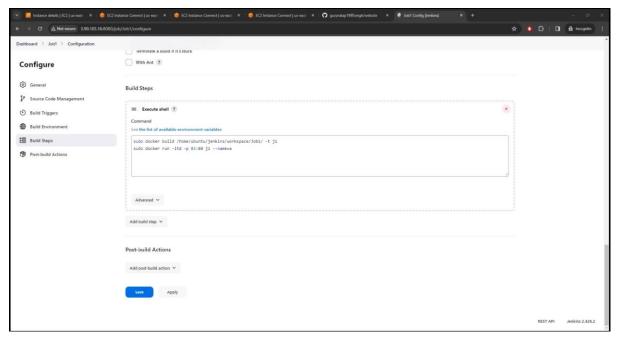


9. Creating Develop branch

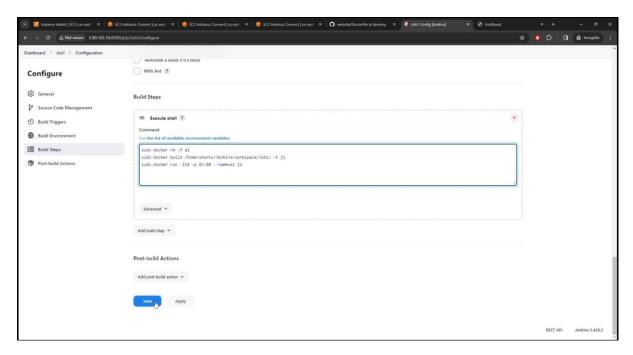


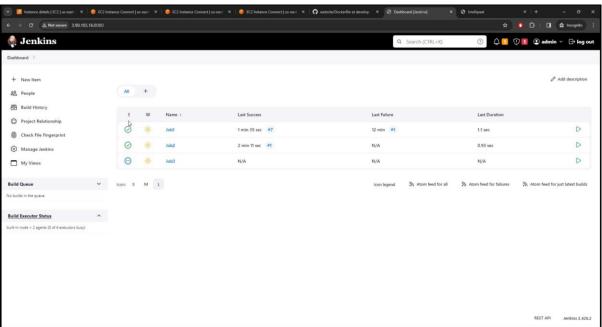
10. Creating Job in Jenkins

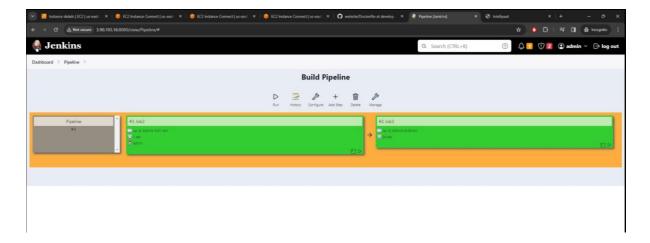












11. Adding webhook to auto trigger the jobs

