Deployment #5

Welcome to Deployment 5!! Time to deploy to a container architecture. You will need to follow the steps below.

1. Install Jenkins on an EC2 if you haven't already:

- You do not have to recreate a Jenkins server in your VPC. Highly recommend you use your Jenkins server from the default VPC!!

2. Install Terraform and Docker on an EC2:

- Install terraform on an EC2 and Docker on another EC2.
- Link to install Terraform:
  https://www.terraform.io/downloads
- Link to install Docker:
  https://docs.docker.com/engine/install/ubuntu/

3. Create another Jenkins agent profile:

- Make sure you have two Jenkins agent profiles. Use the public IP of the EC2 with Docker installed and Terraform installed, to configure the agent profiles on the Jenkins manager

4. Create your Jenkinsfile:

- Your Jenkinsfile should have the following stages:
    - Build
    - Test
    - Create container (Docker agent)
    - Push to Dockerhub (Docker agent)
    - Deploy to ECS (Terraform agent)

5. Modify the Terraform files:

- Make sure you use your credentials(Review deployment 4)
- Modify Main.tf:
    - Line 33: Add your images location

- ○ Line 55 and 56: Add the Role ARN we create Saturday.

1.<u>Diagram the new pipeline!!!</u>

- Must have a diagram of pipeline and VPCs

2.<u>Create documentation!!!</u>

<u>Note:</u> Please submit your work by uploading your work to a repo or the forked repo. Then submit the link to the repo via LMS.