Assignment: Dockerizing a Java Application and Deploying it on Kubernetes

Name: Akash Nadigepu

ID: 290396

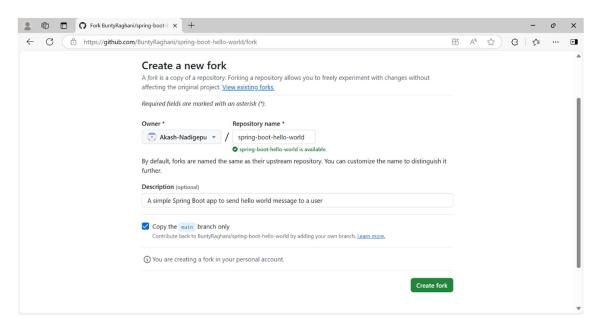
Github repo: Akash-Nadigepu/spring-boot-hello-world: A simple Spring Boot app to

send hello world message to a user

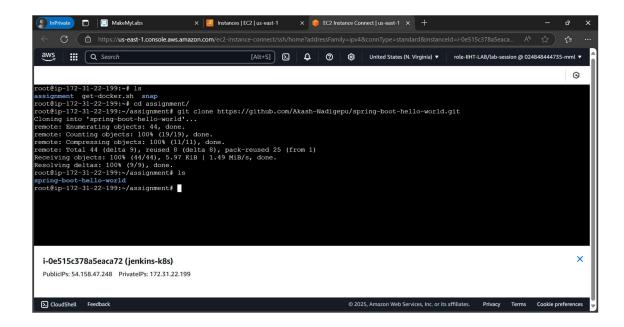
DockerHub repo: akash6637/spring-boot-hello-world general | Docker Hub

Task 1: Fork and Clone Java Repo

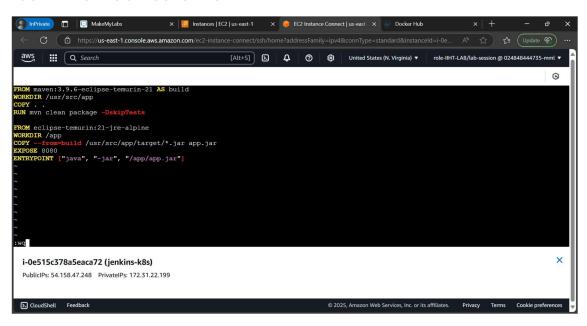
1. Fork the repository on GitHub.



2. Cloned it to into local machine.



Task 2: Define a Dockerfile

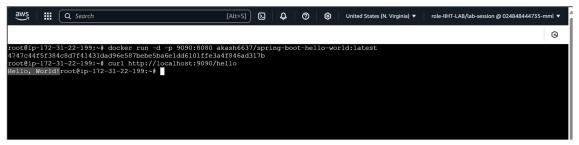


Task 3: Build and Push Docker Image

1. Build the image:

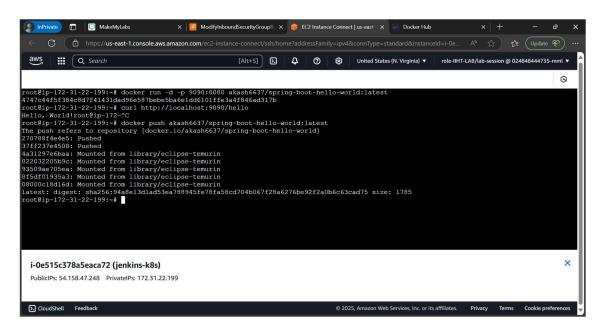
2. Run the Container Locally

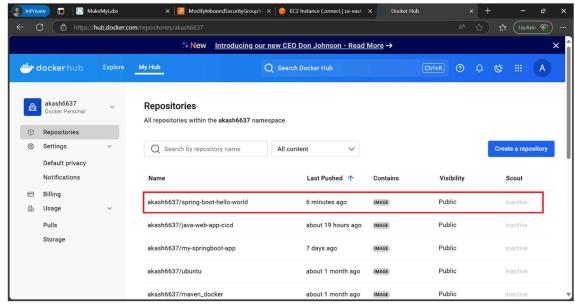
3. Checking if it's running:



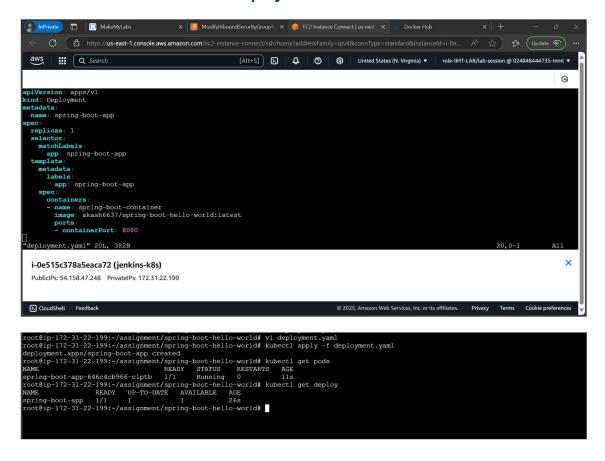
Worked! It is printing Hello, World!

4. Push to DockerHub:

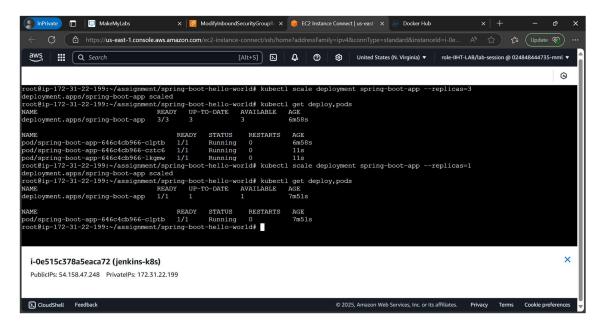




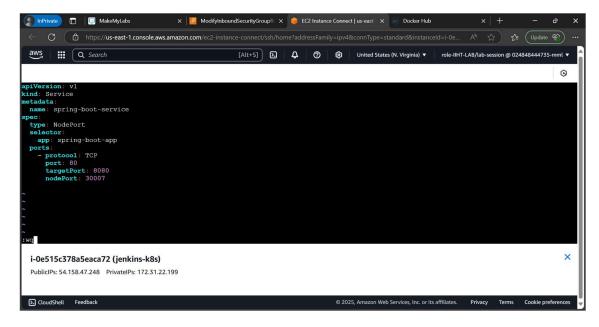
Task 4: Create a Kubernetes Deployment



Task 5: Scale Up and Scale Down



Task 6: Expose the Service Using NodePort



Accessing the Application using NordePort: 30007

Task 7: Automate Deployment Using Jenkins



