# **Assignment: Dockerizing a Java Application and Deploying it on Kubernetes**

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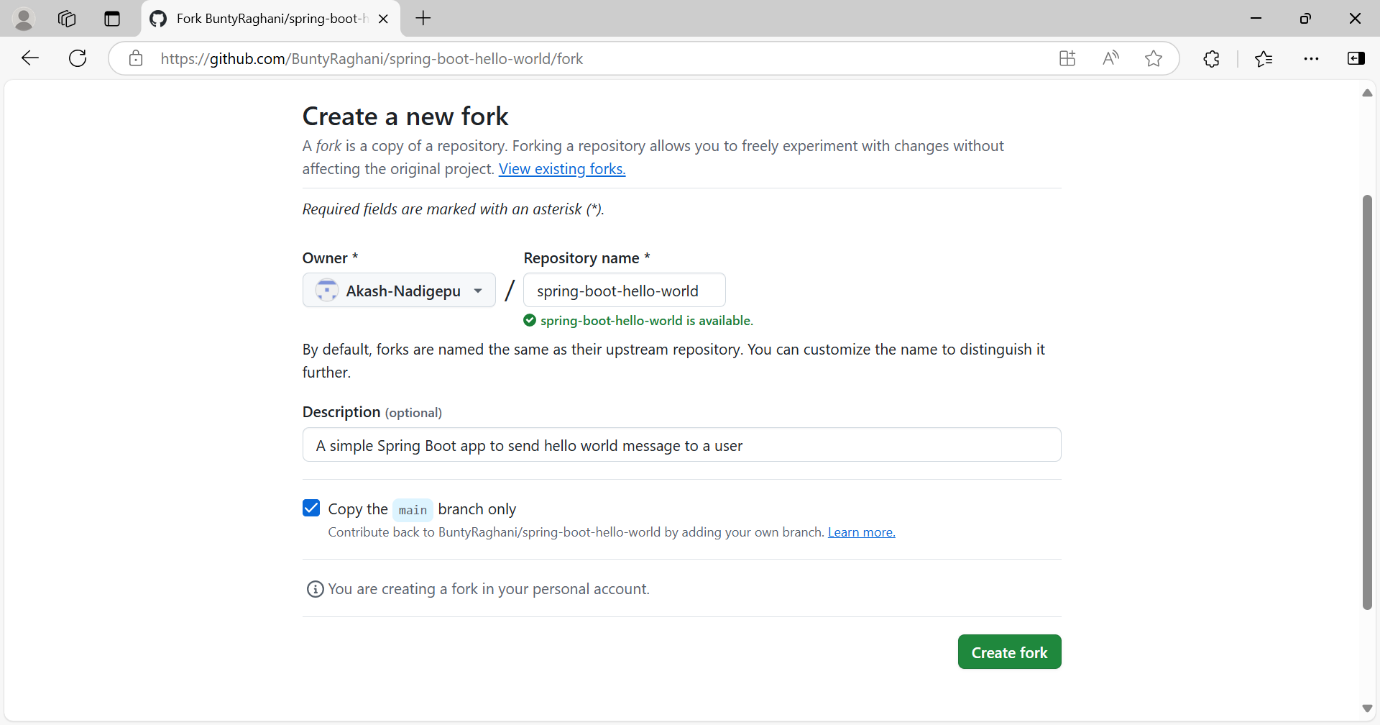
ID: 290396

Github repo: [Akash-Nadigepu/spring-boot-hello-world: A simple Spring Boot app to send hello world message to a user](https://github.com/Akash-Nadigepu/spring-boot-hello-world/)

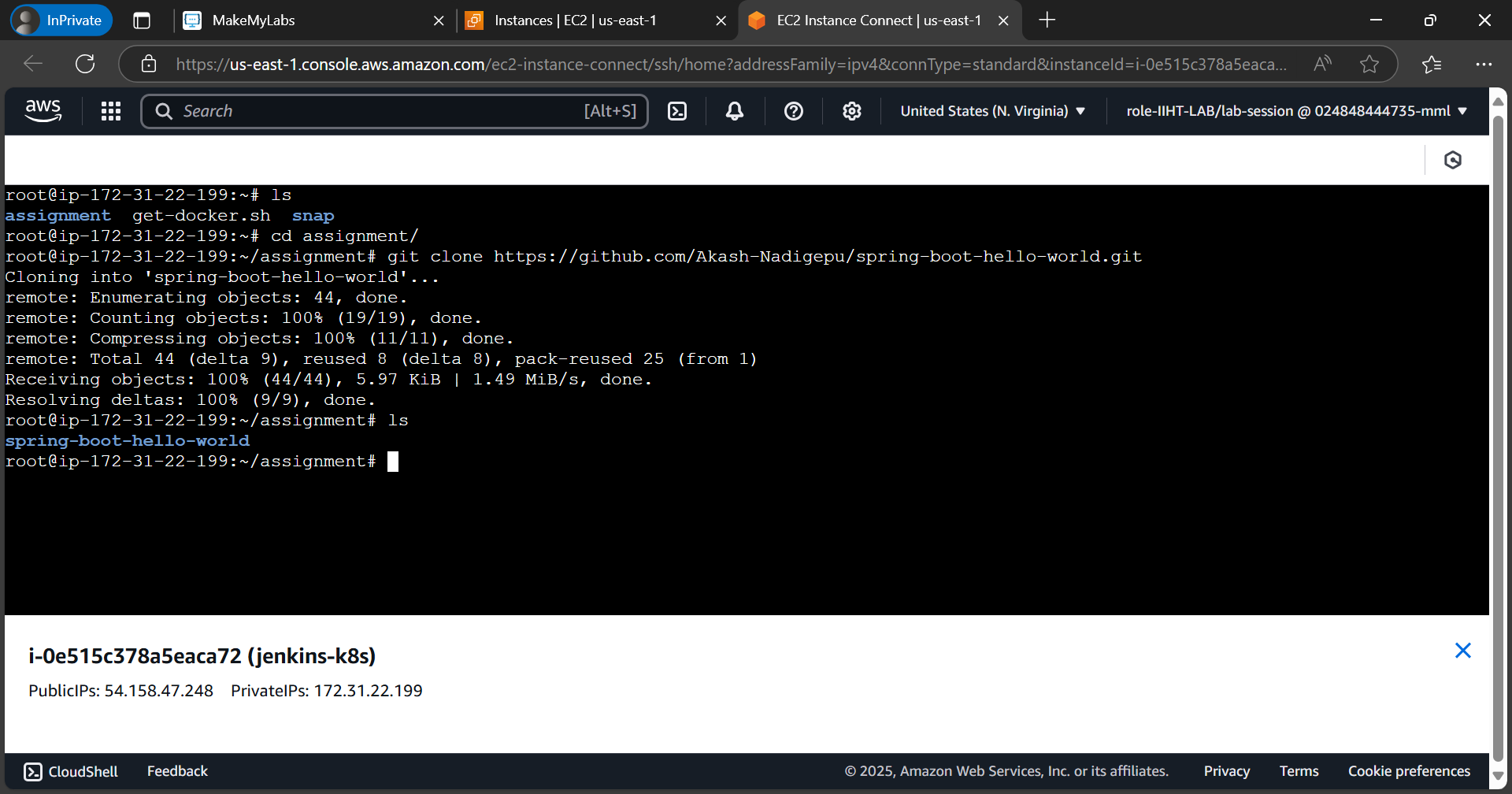
DockerHub repo: [akash6637/spring-boot-hello-world general | Docker Hub](https://hub.docker.com/repository/docker/akash6637/spring-boot-hello-world/general)

**Task 1: Fork and Clone Java Repo**

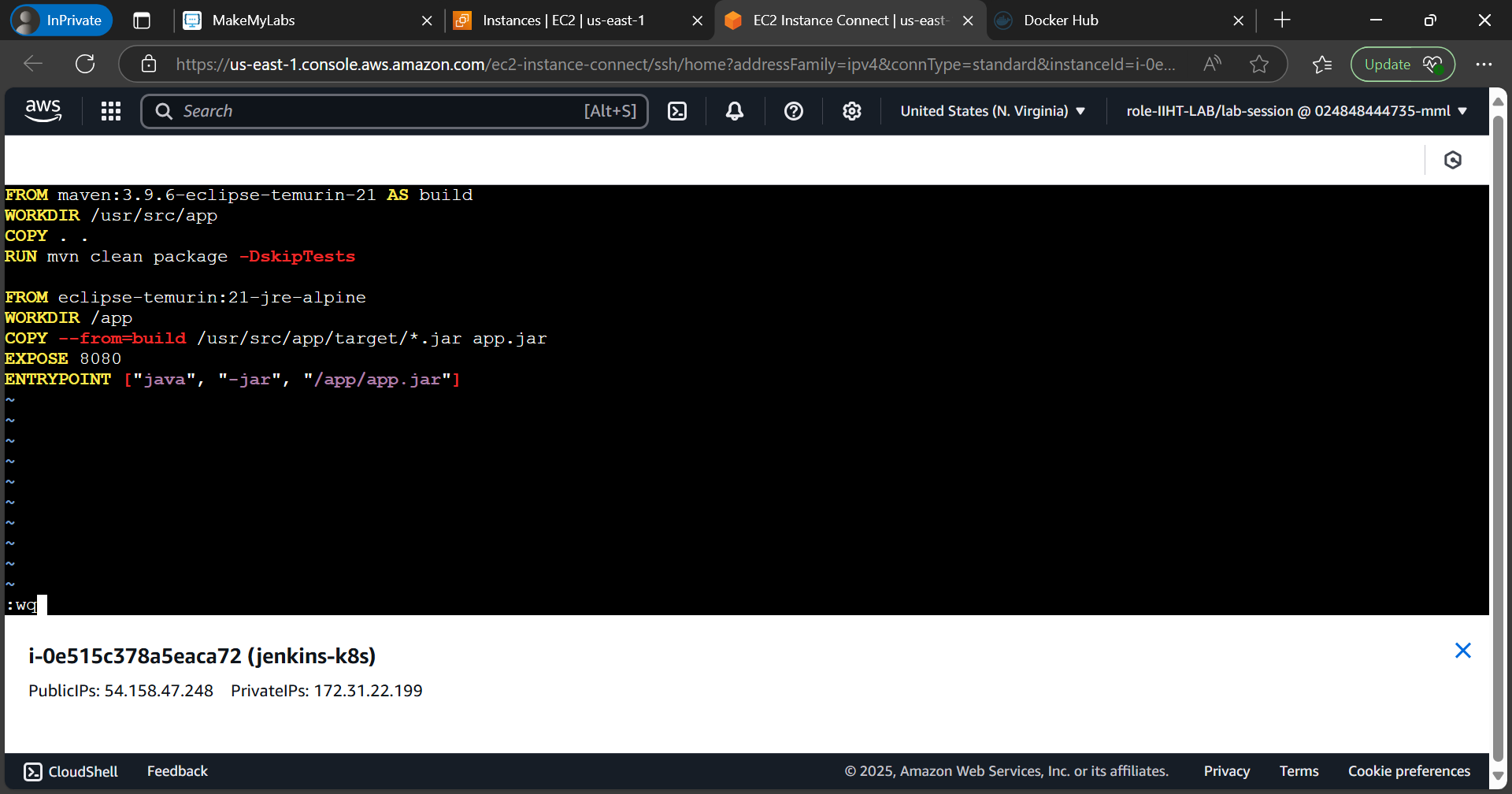
1. **Fork the repository on GitHub.**



1. **Cloned it to into local machine.**

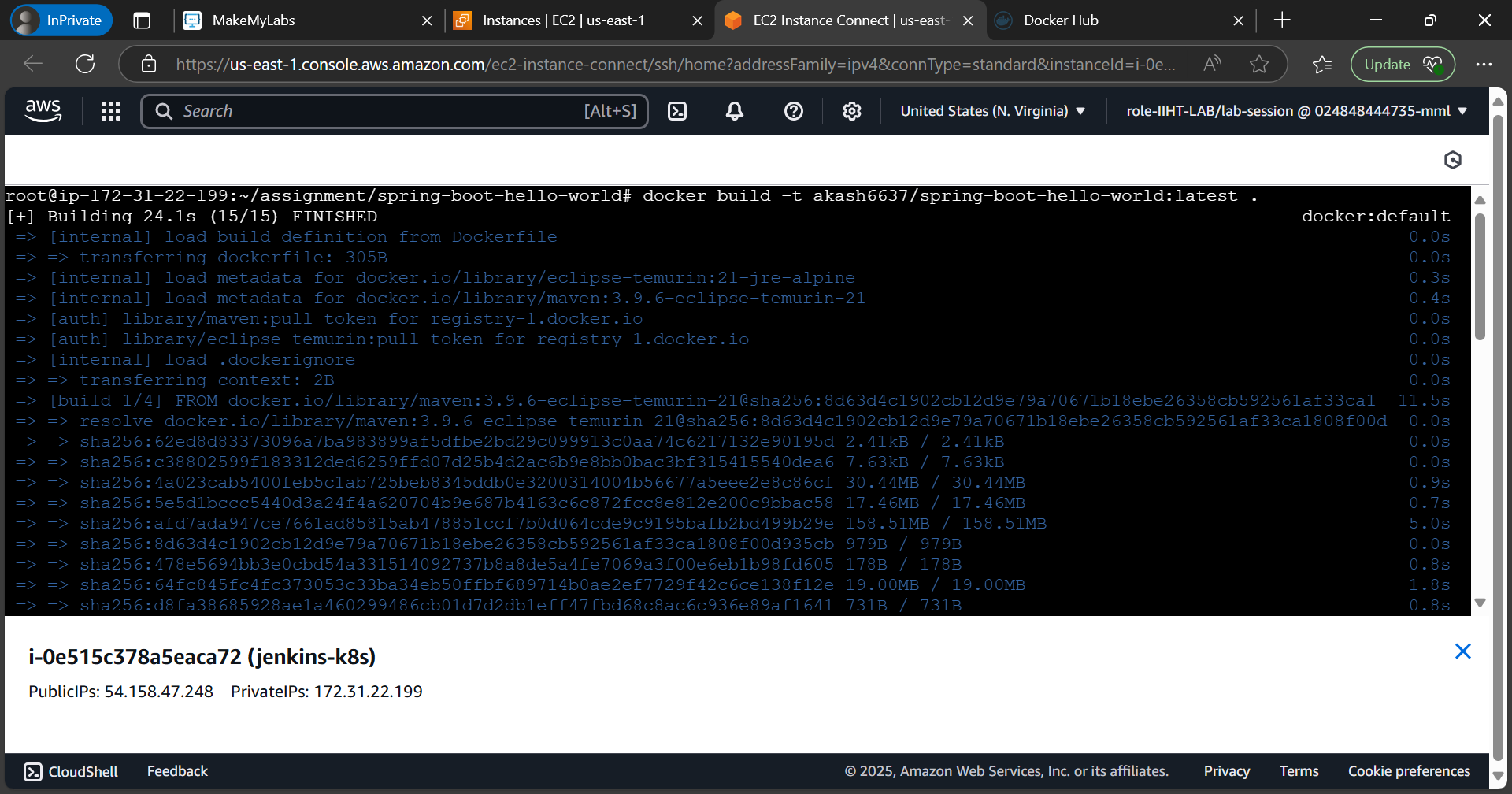
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**Task 2: Define a Dockerfile**

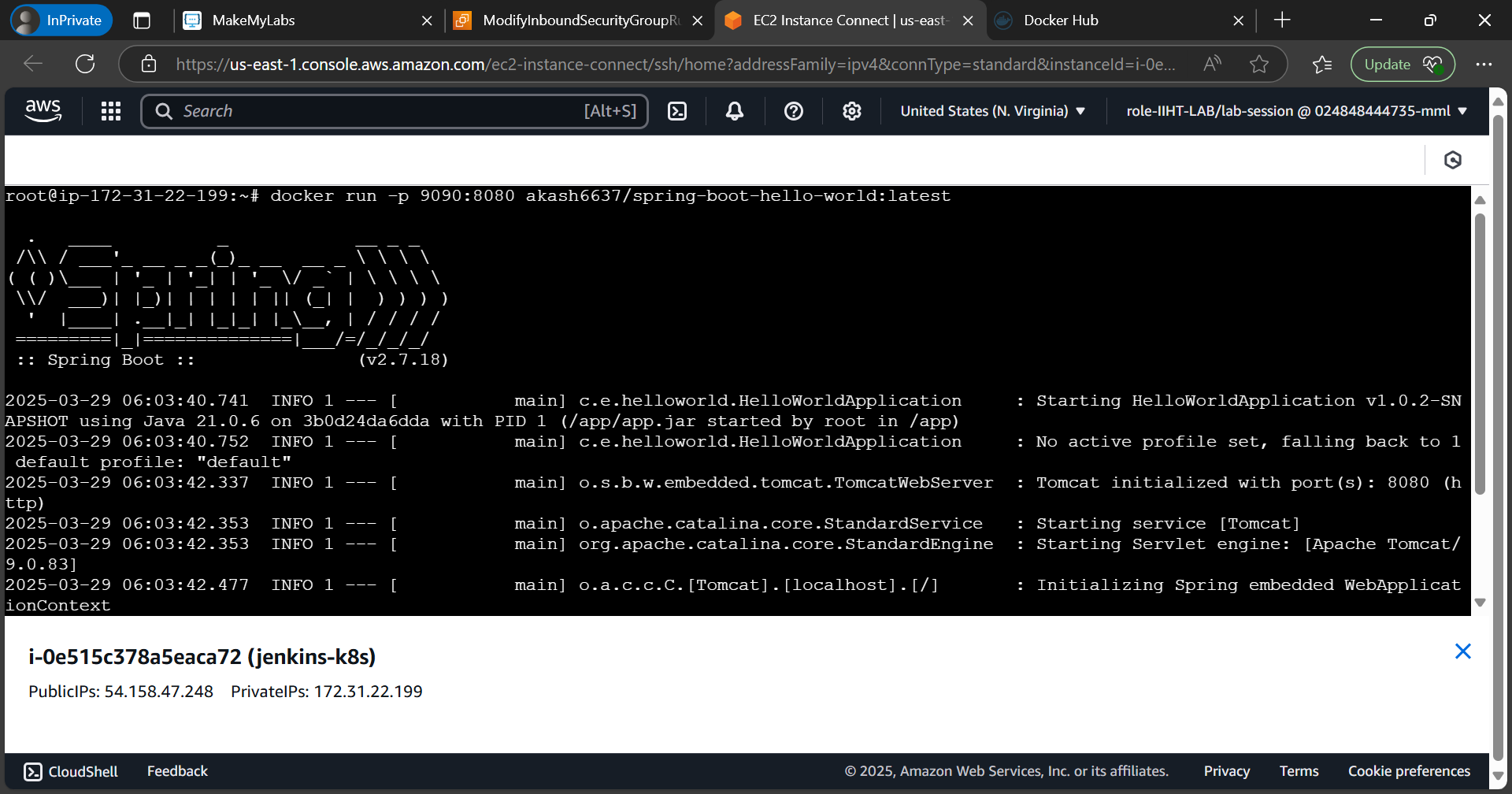
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**Task 3: Build and Push Docker Image**

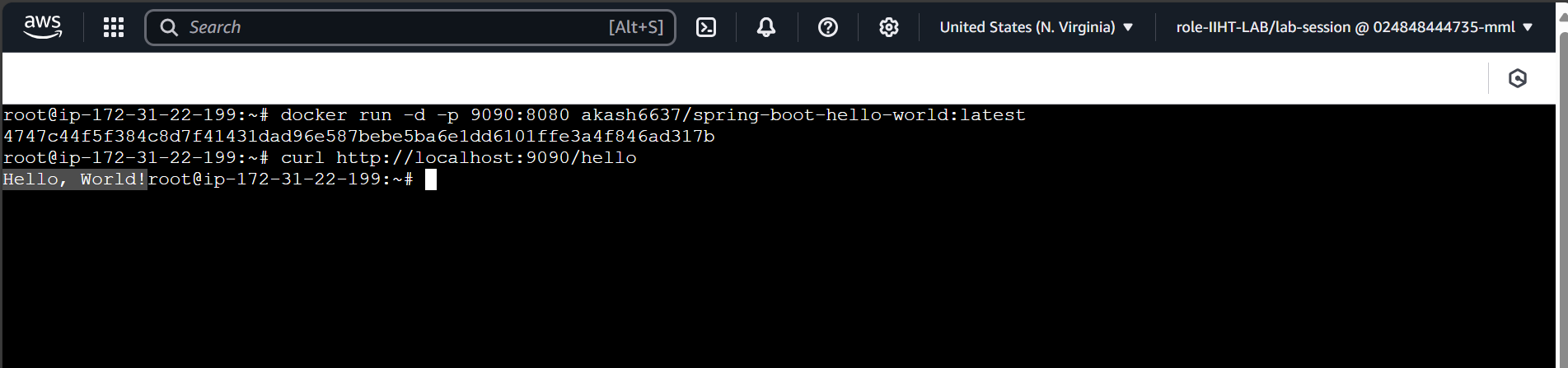
1. **Build the image:**

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1. **Run the Container Locally**

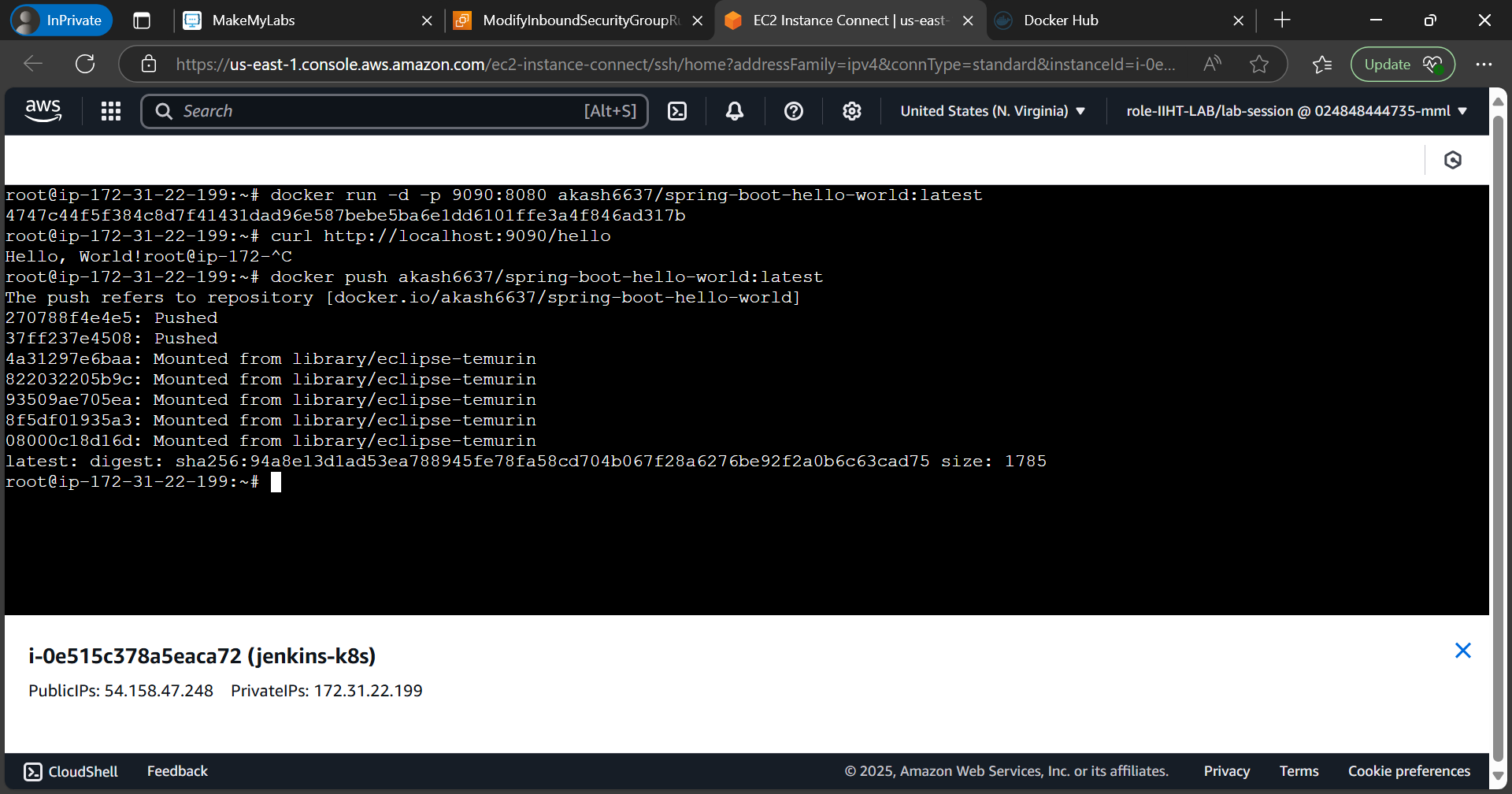
****

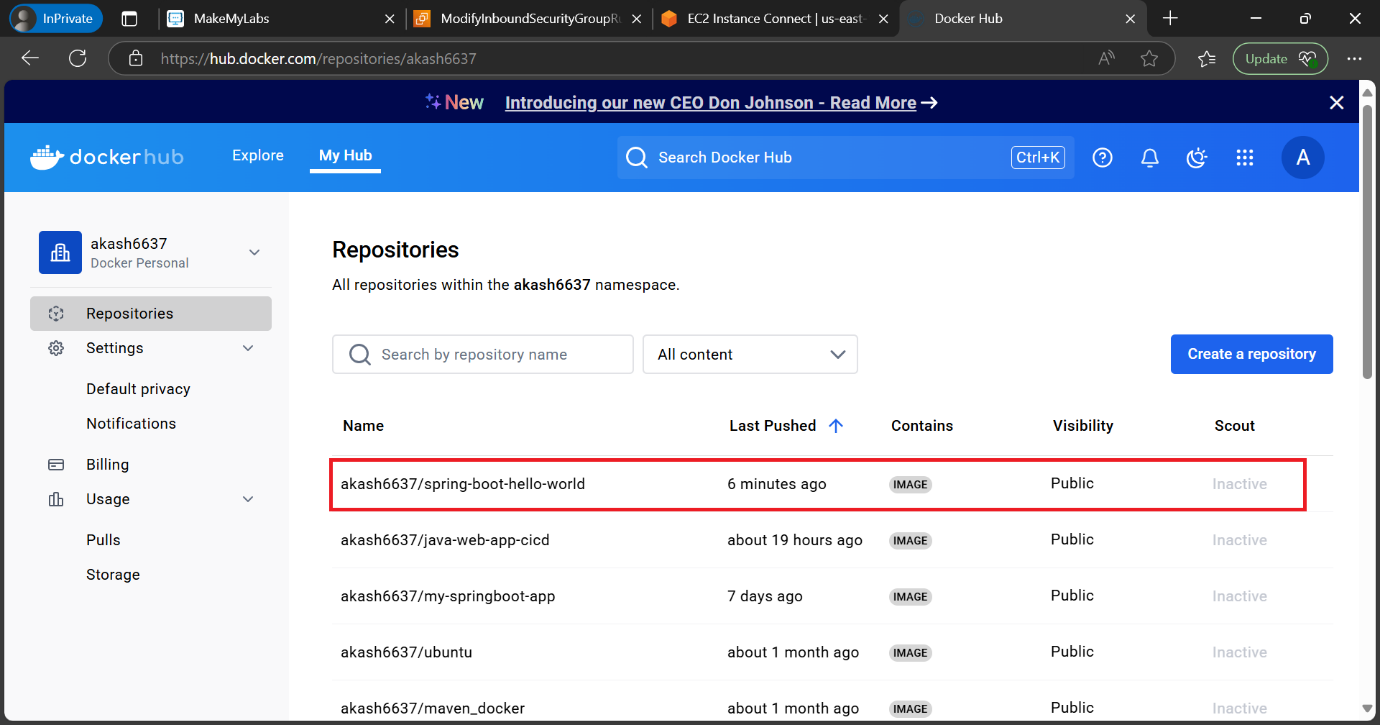
1. **Checking if it's running:**

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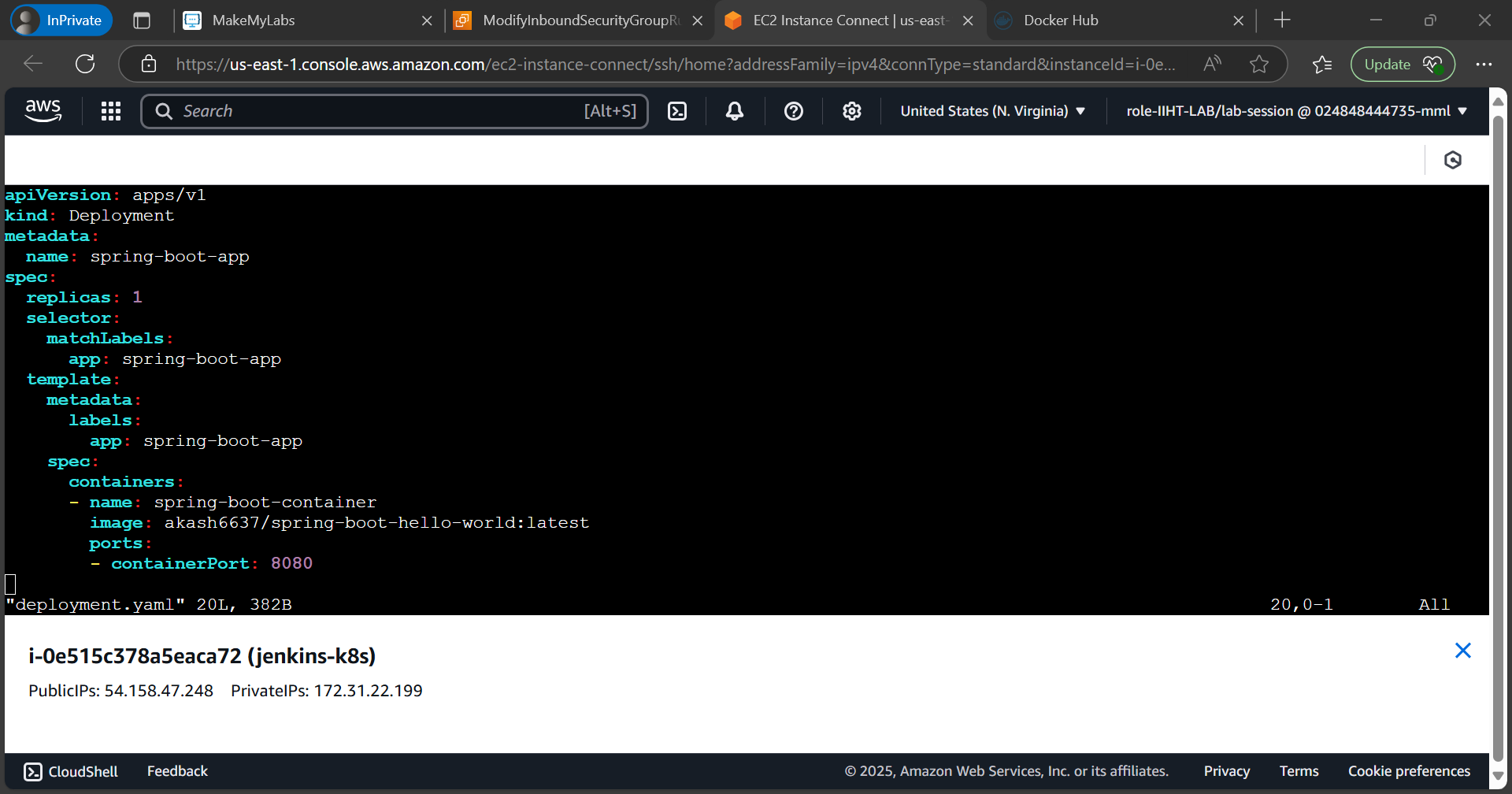
**Worked! It is printing Hello, World!**

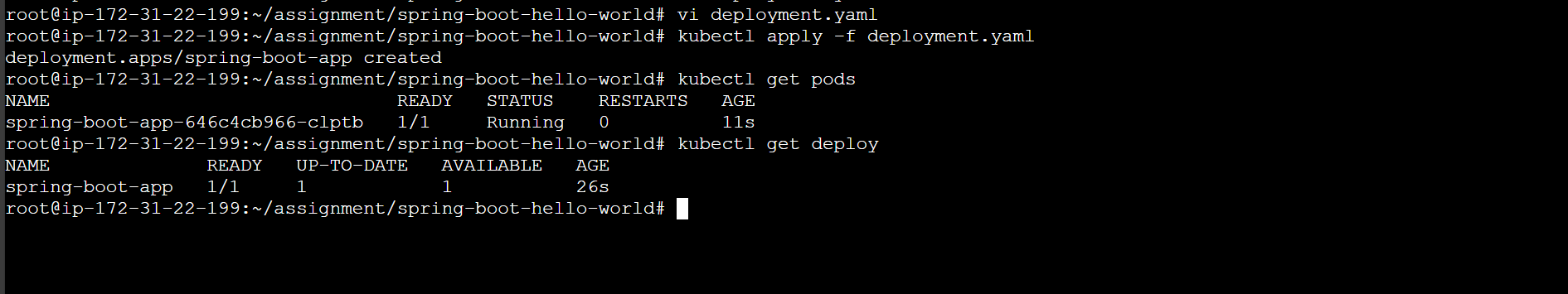
1. **Push to DockerHub:**

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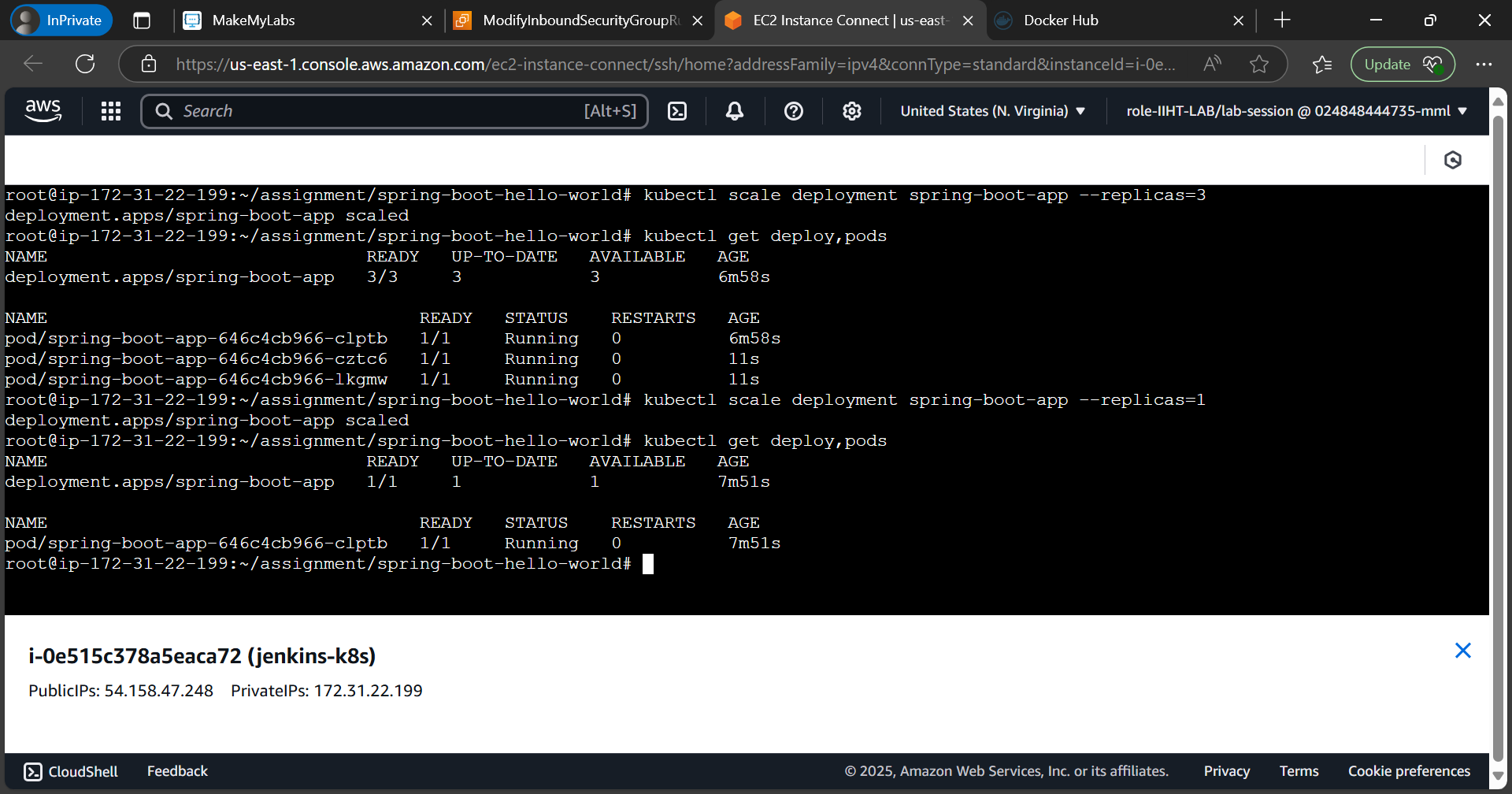


## **Task 4: Create a Kubernetes Deployment**

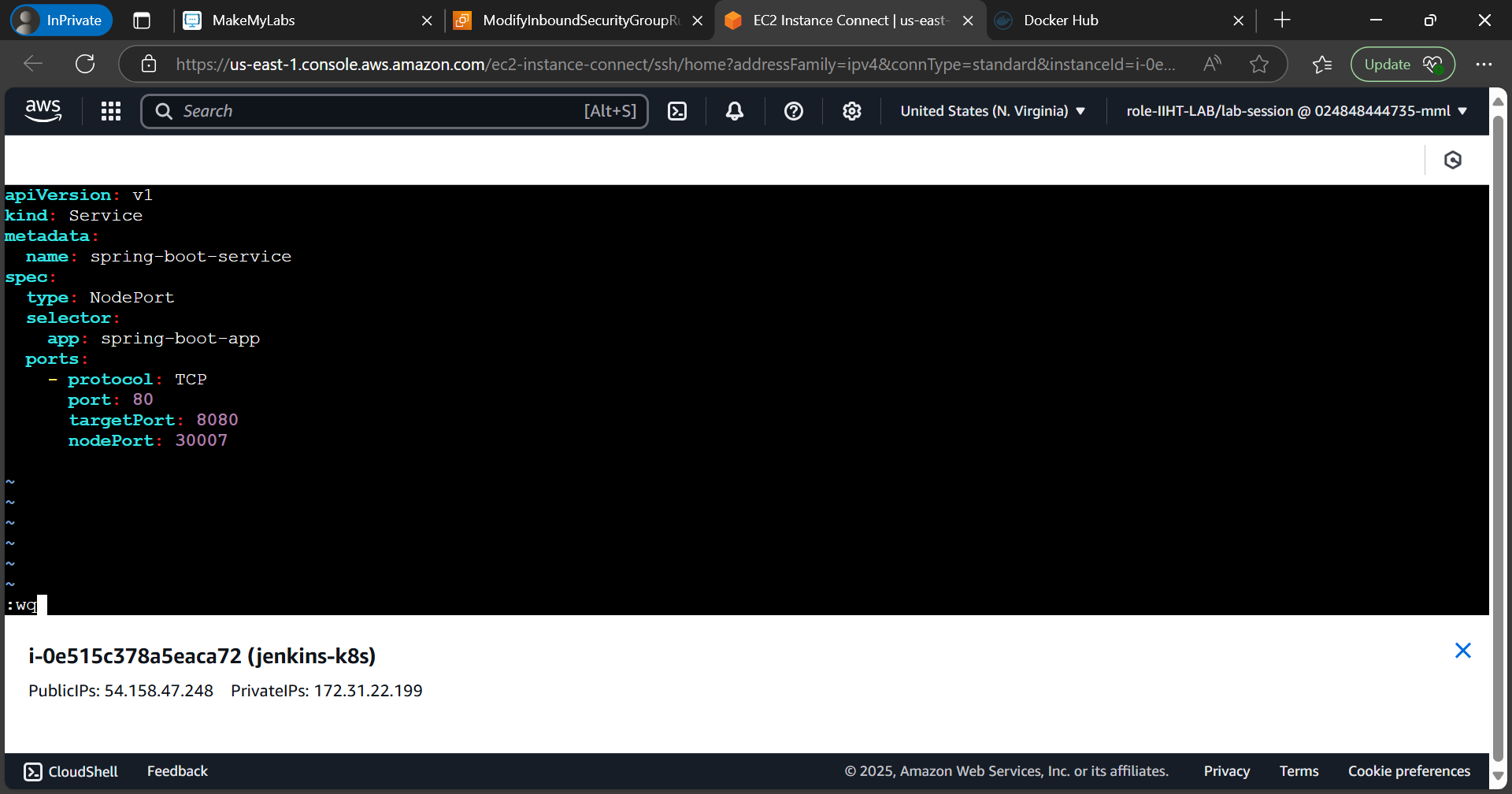




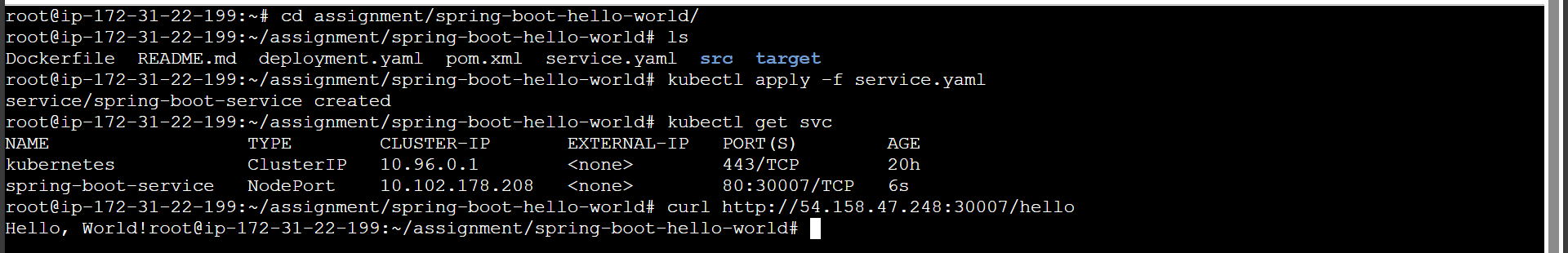
## **Task 5: Scale Up and Scale Down**



## **Task 6: Expose the Service Using NodePort**



**Accessing the Application using NordePort :30007**



## **Task 7: Automate Deployment Using Jenkins**

