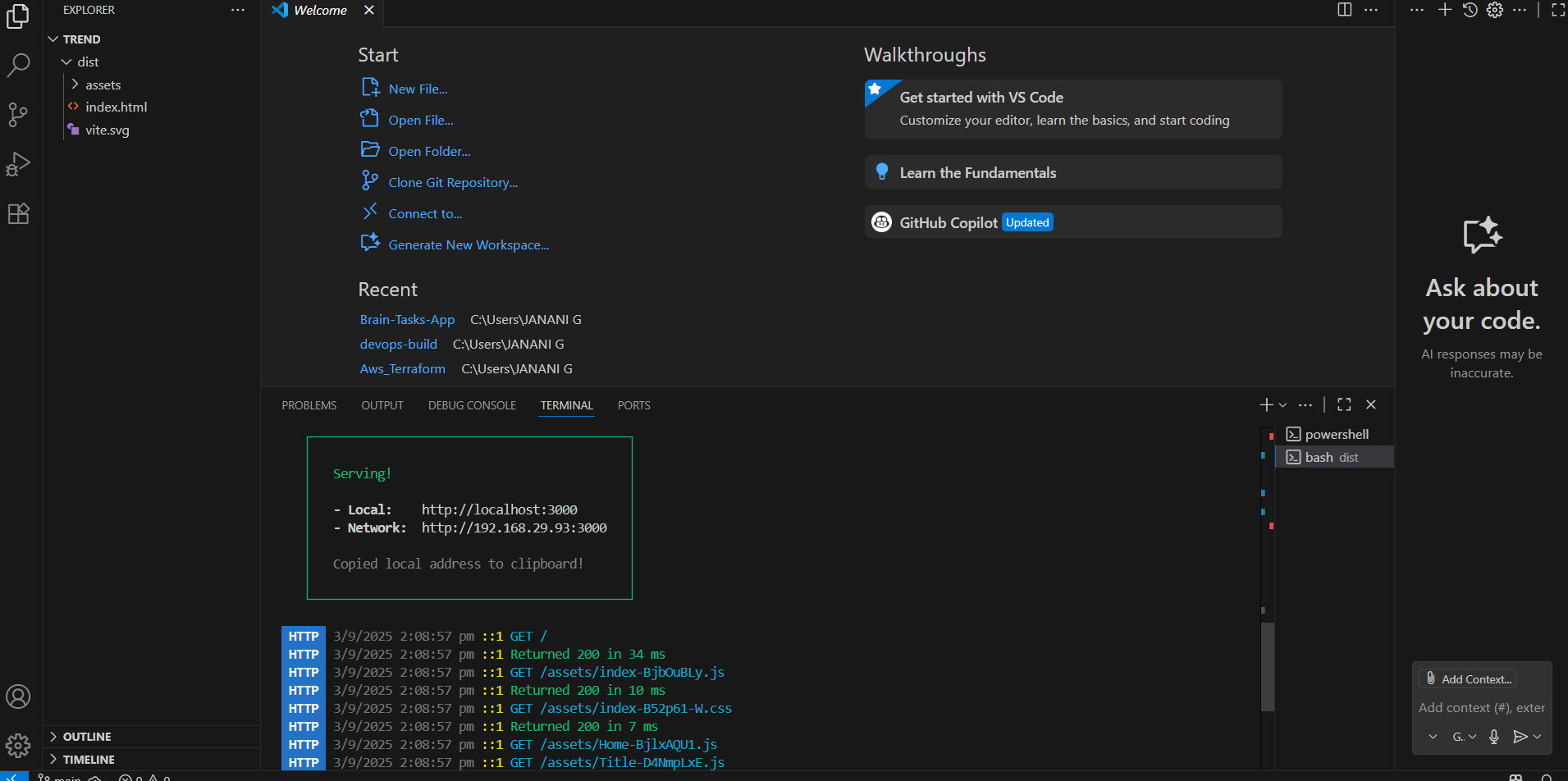
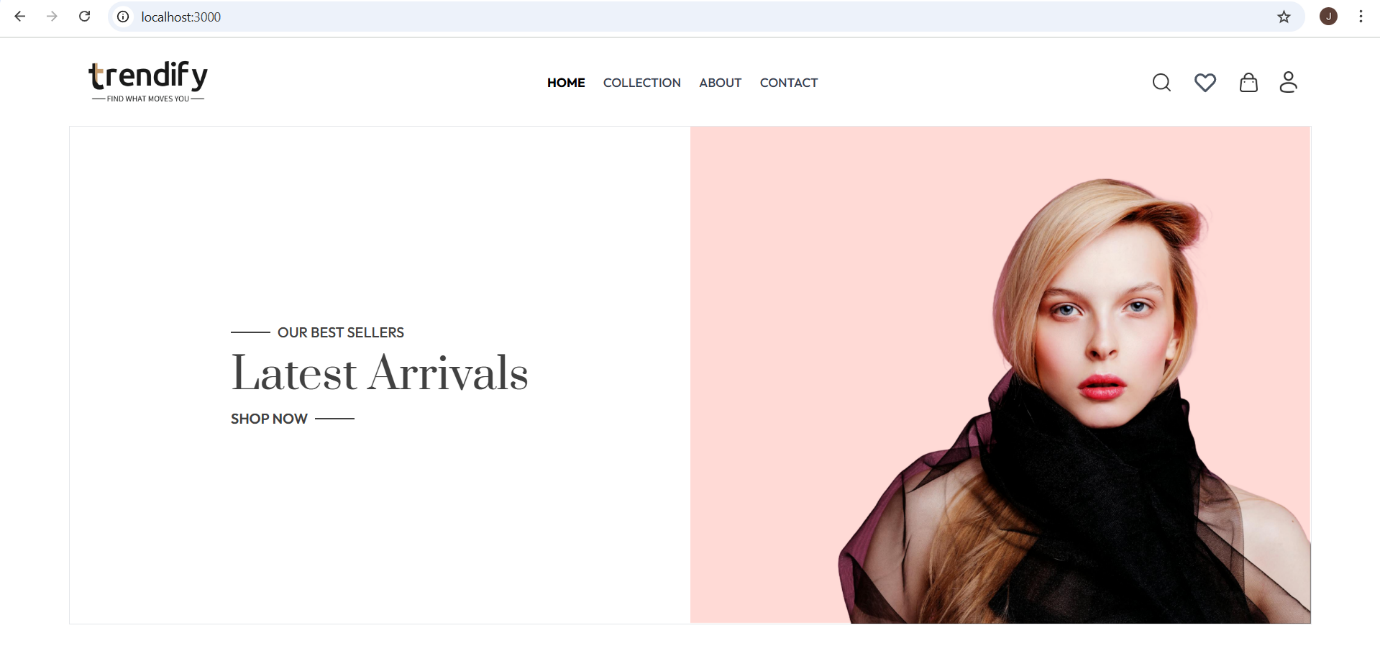
**MINI PROJECT -2 - TREND APPLICATION DEPLOYMENT**

**Github URL :** [**https://github.com/Janani-977/Trend\_Devops\_Application**](https://github.com/Janani-977/Trend_Devops_Application)

Application:

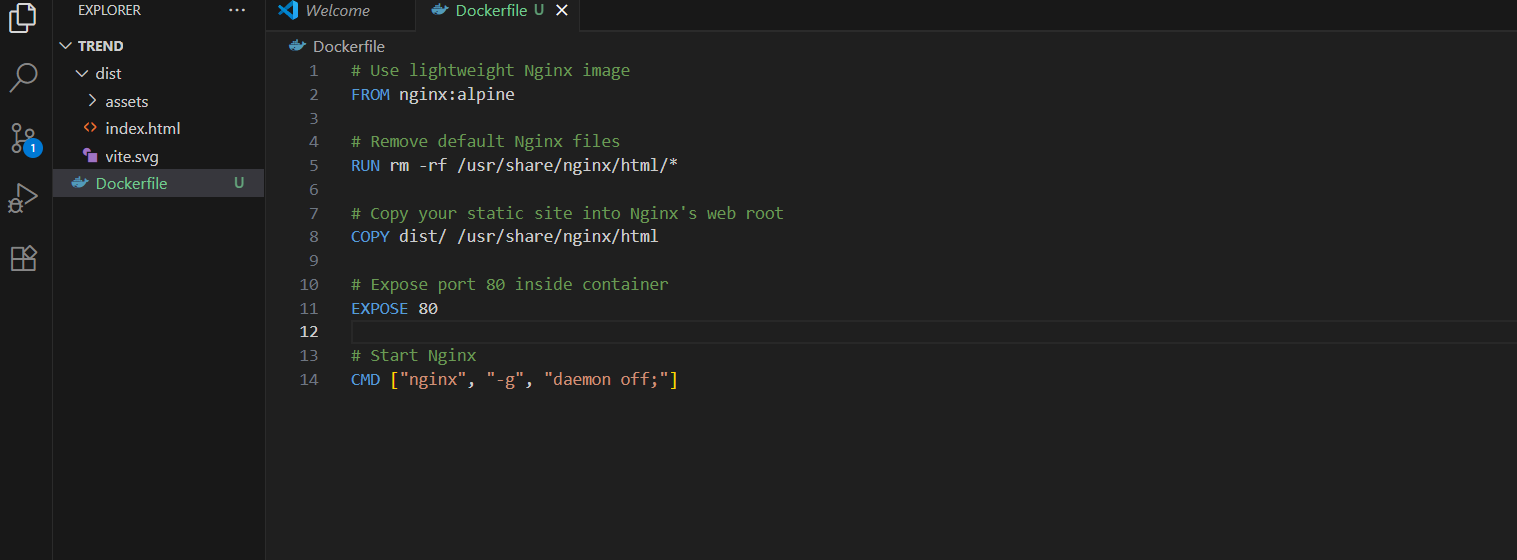


Able to view the app in port 3000 successfully

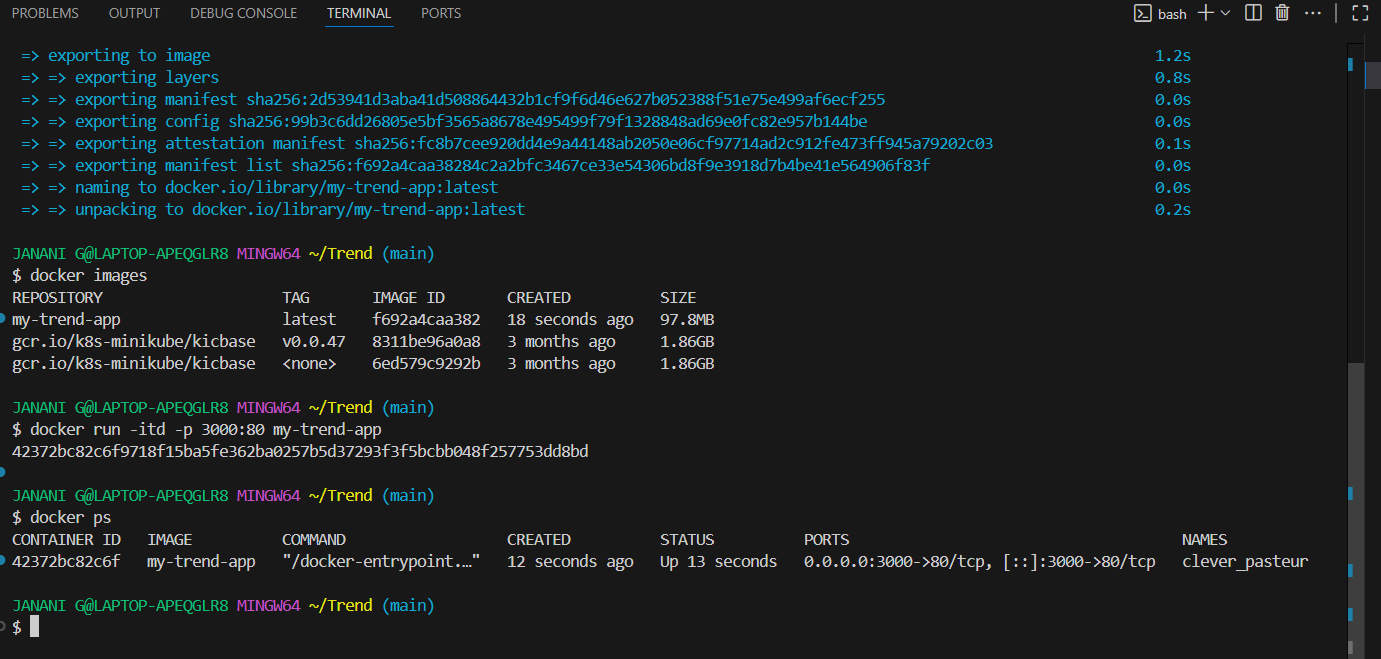


Docker :

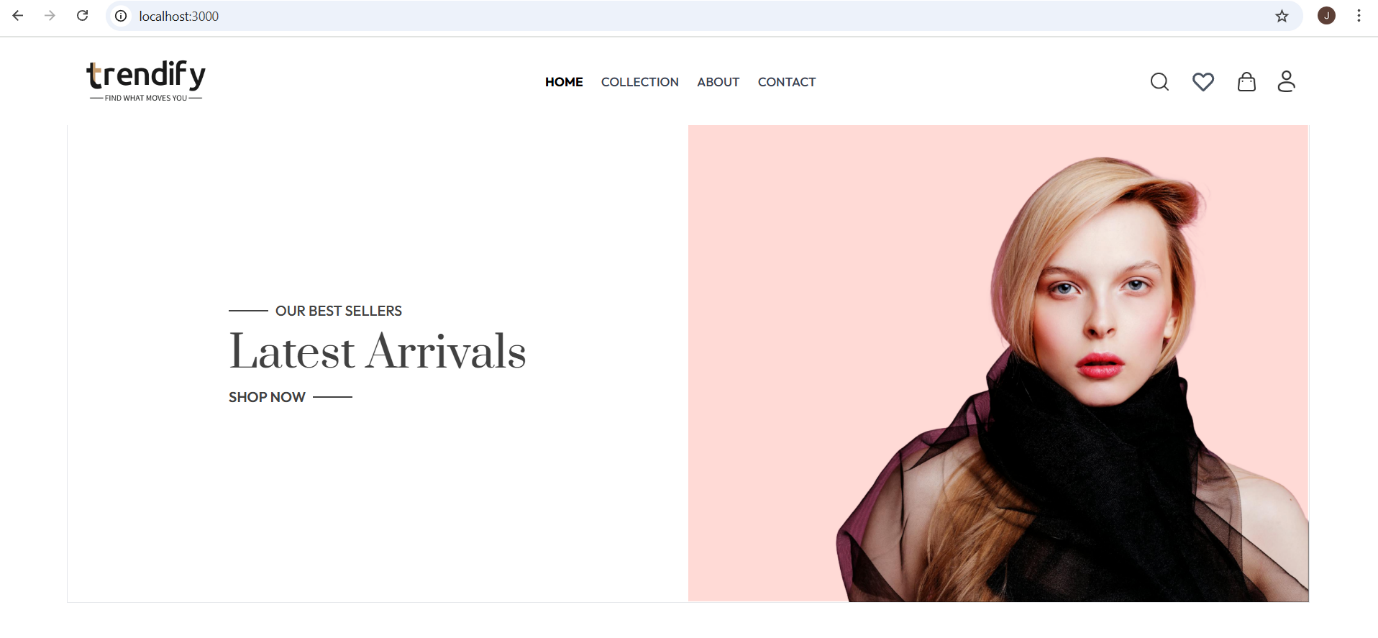
Created a Dockerfile



Build the image and run in the container

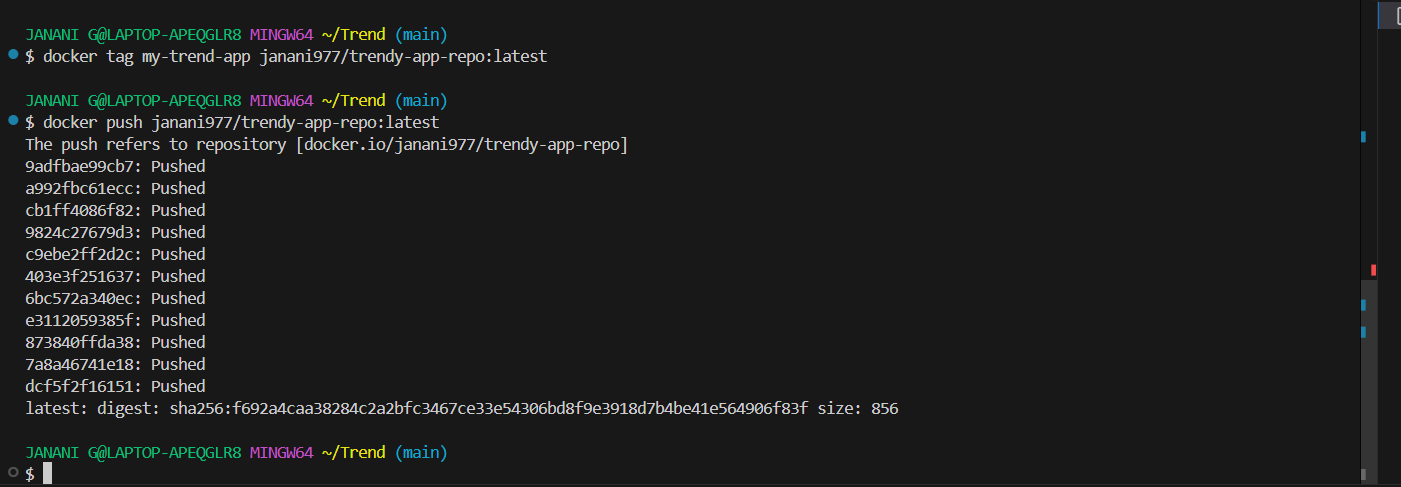


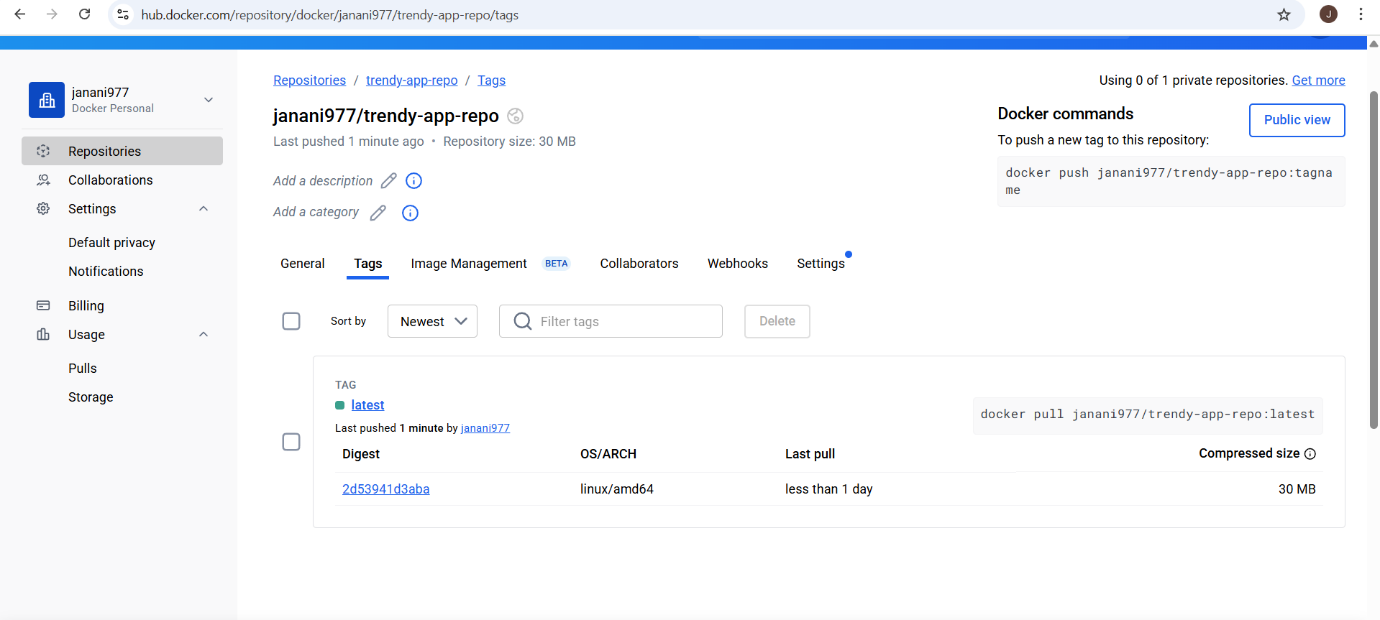
Able to view the app successfully



Docker Hub:

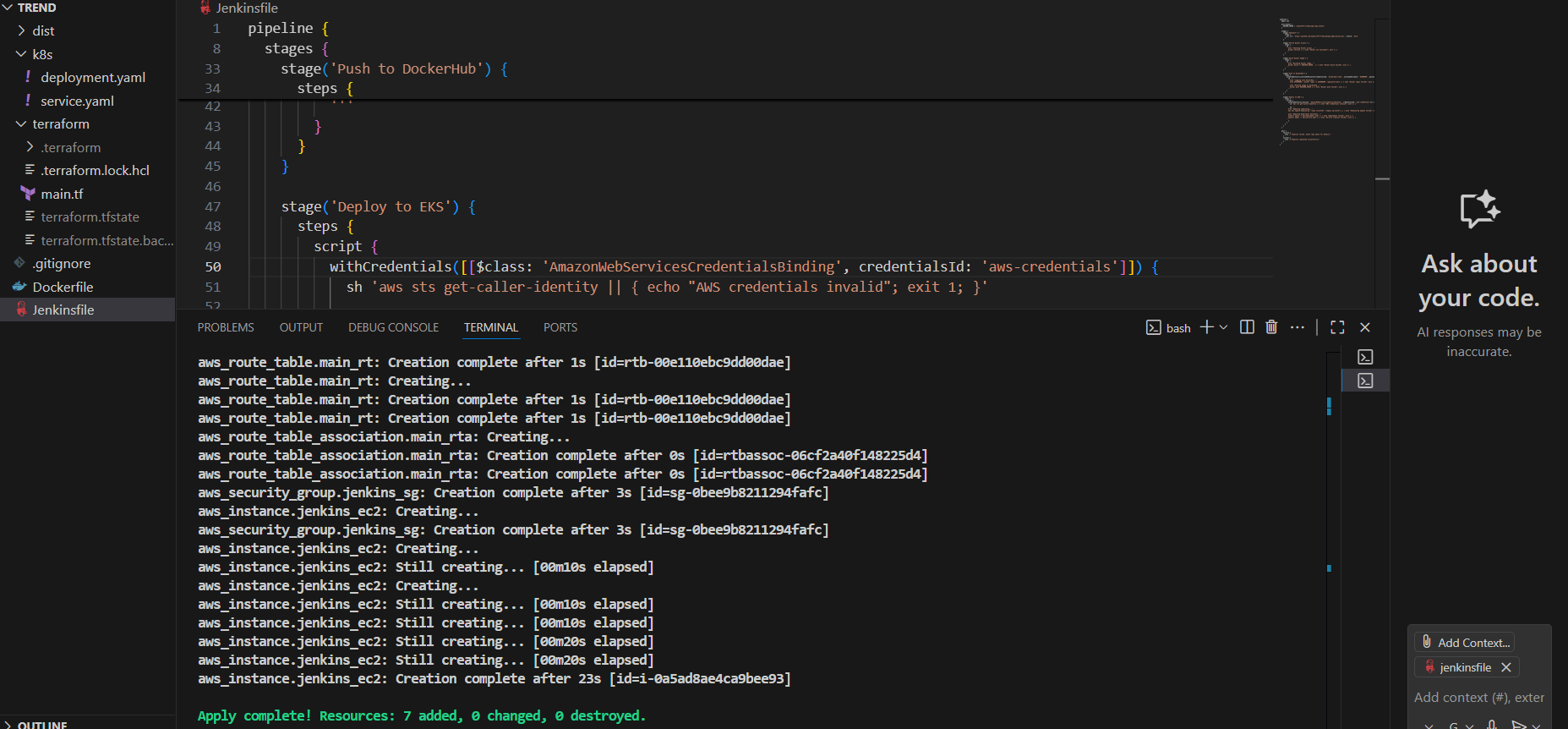
Created a dockerhub repo and pushed the image to check it works as expected.



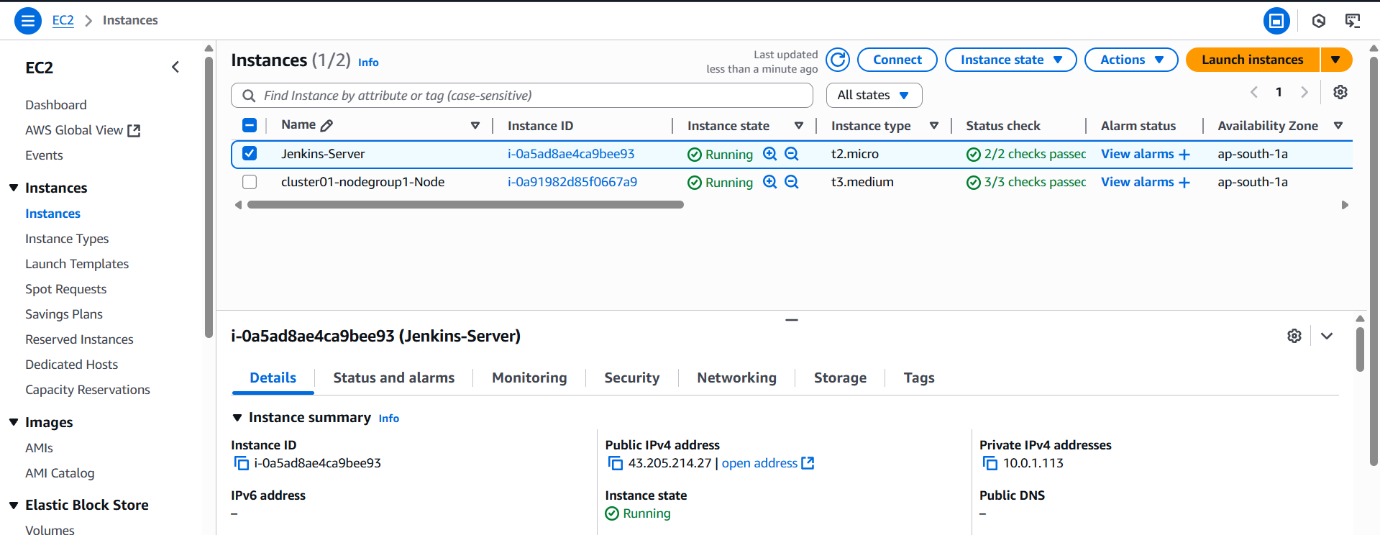


Terraform:

Created all resources



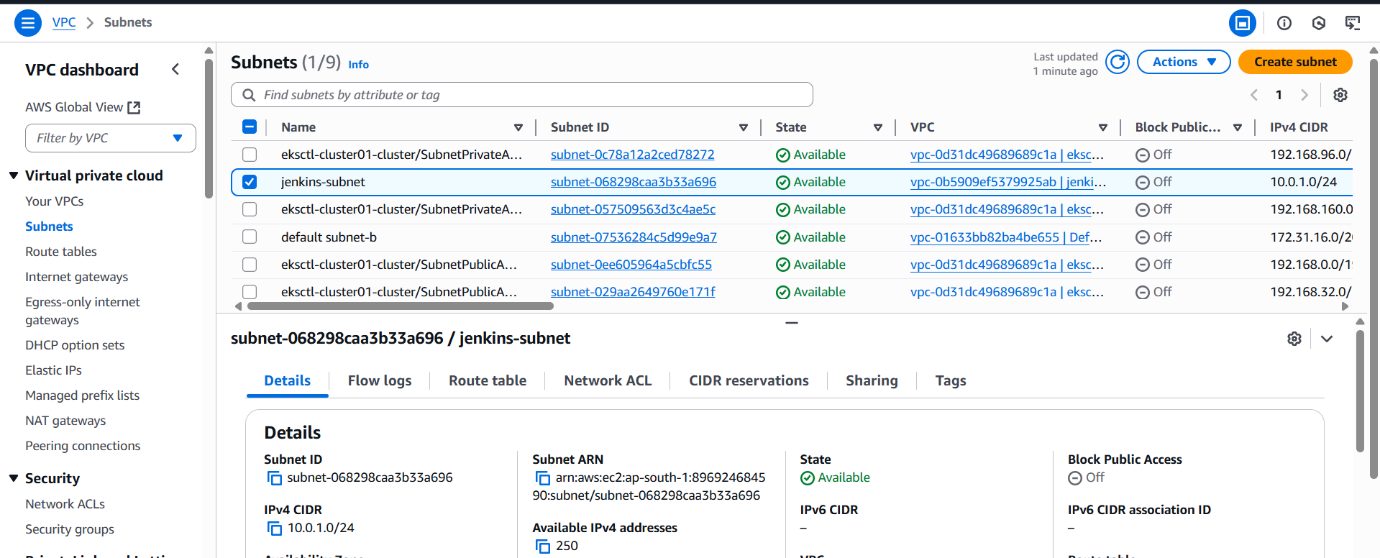
Created EC2



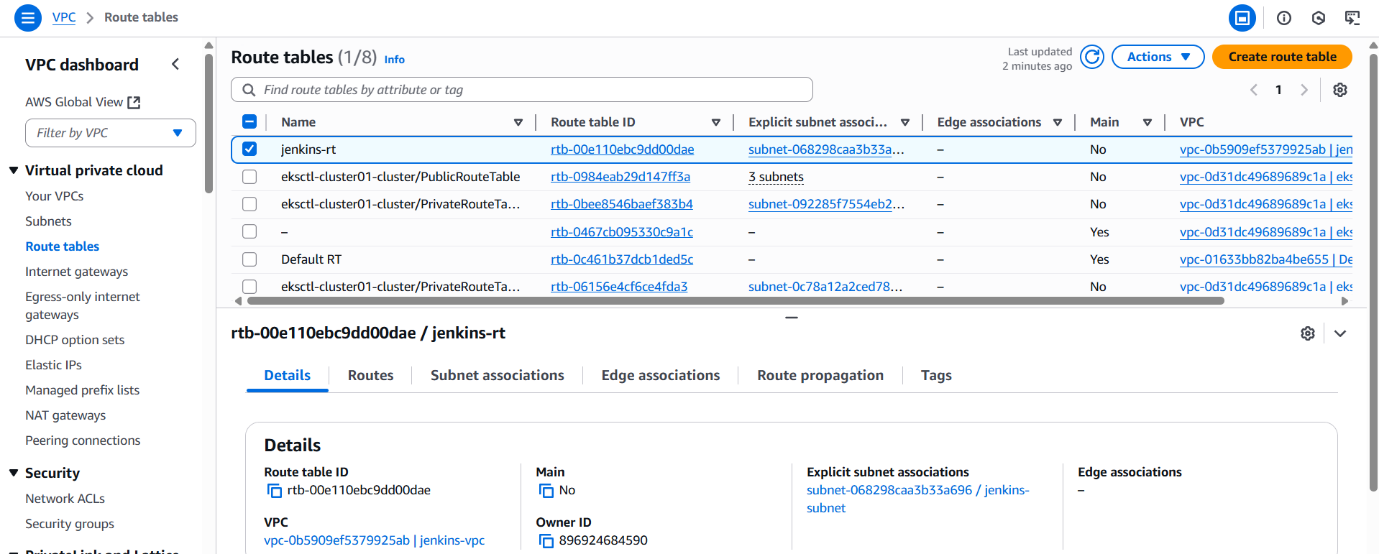
Created VPC



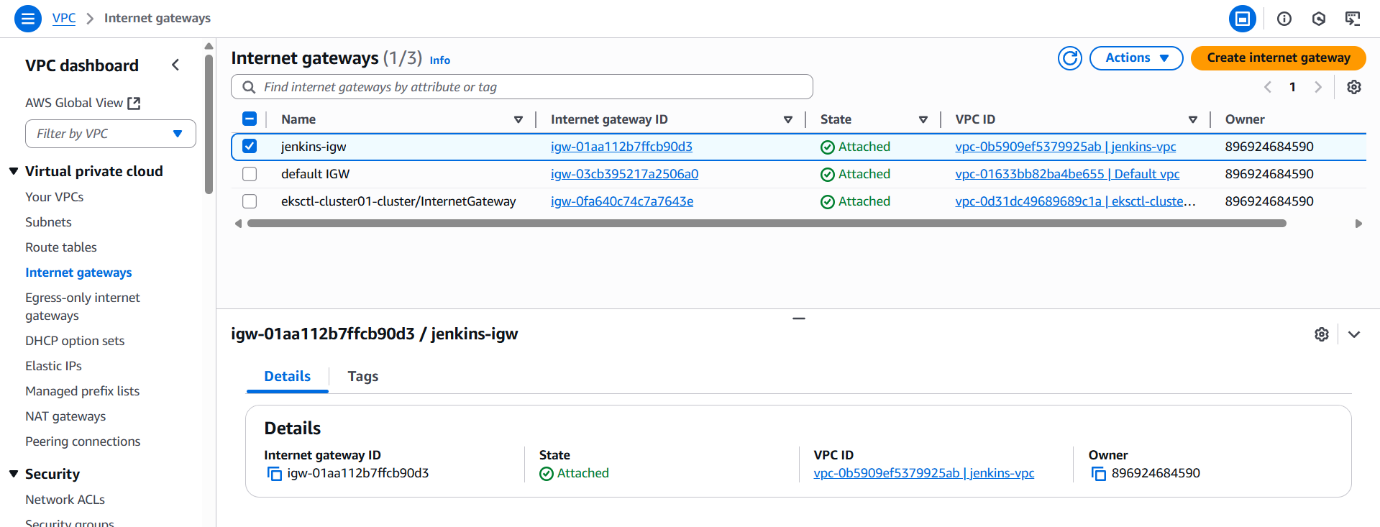
Created Subnet



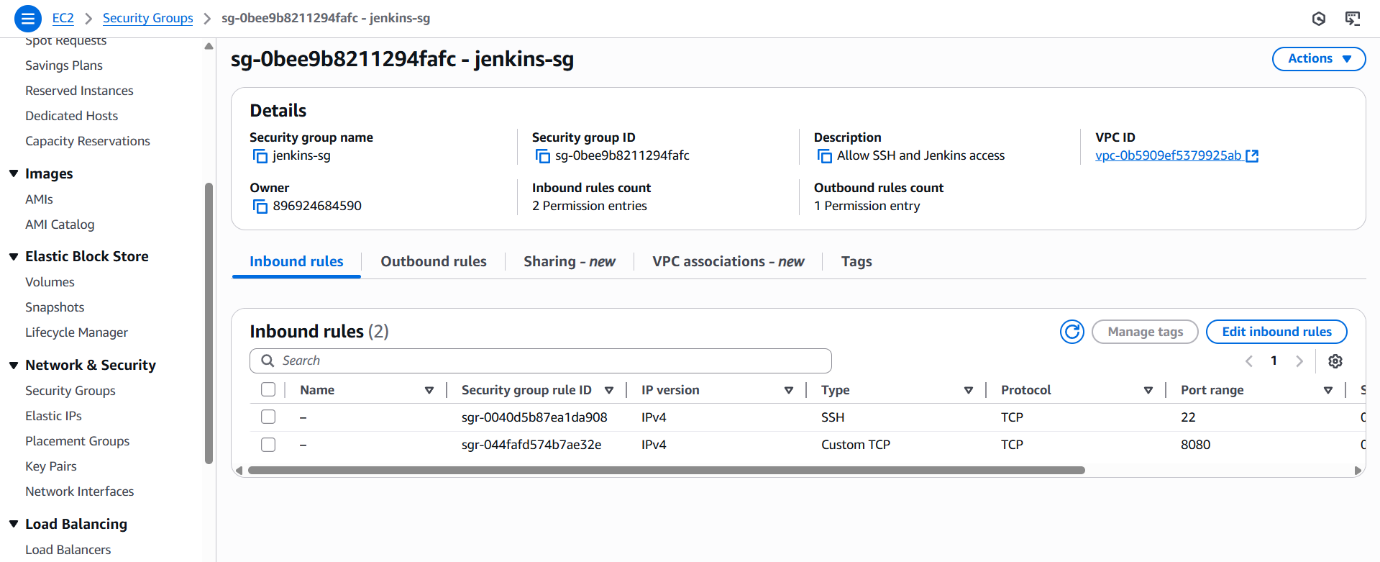
Route table



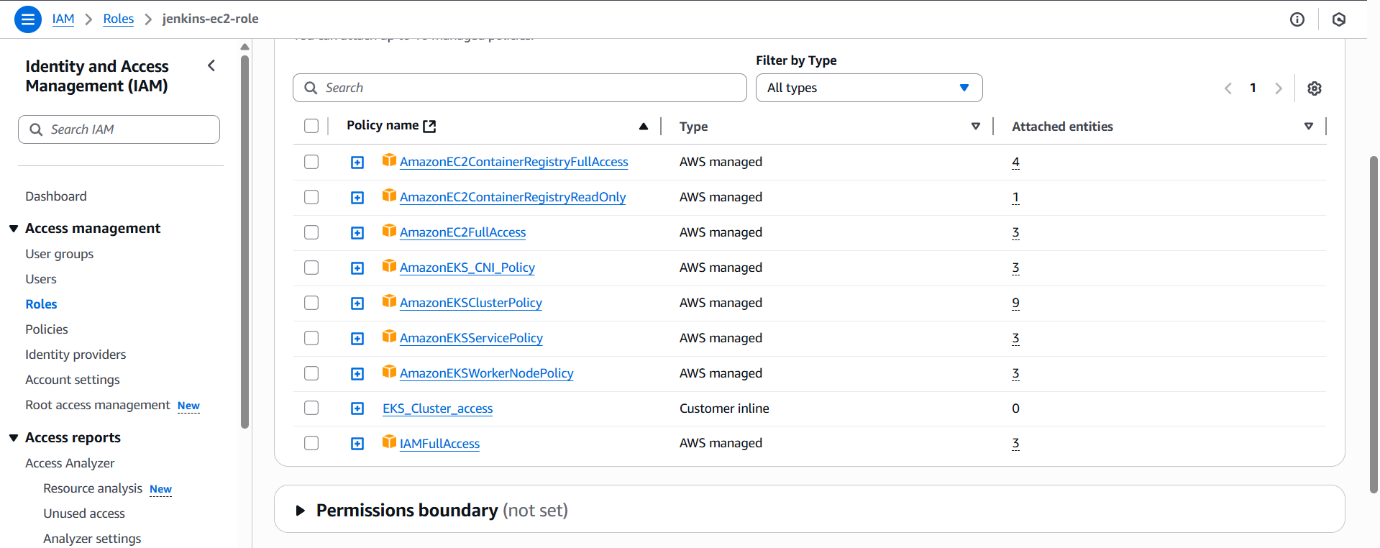
Internet gateway



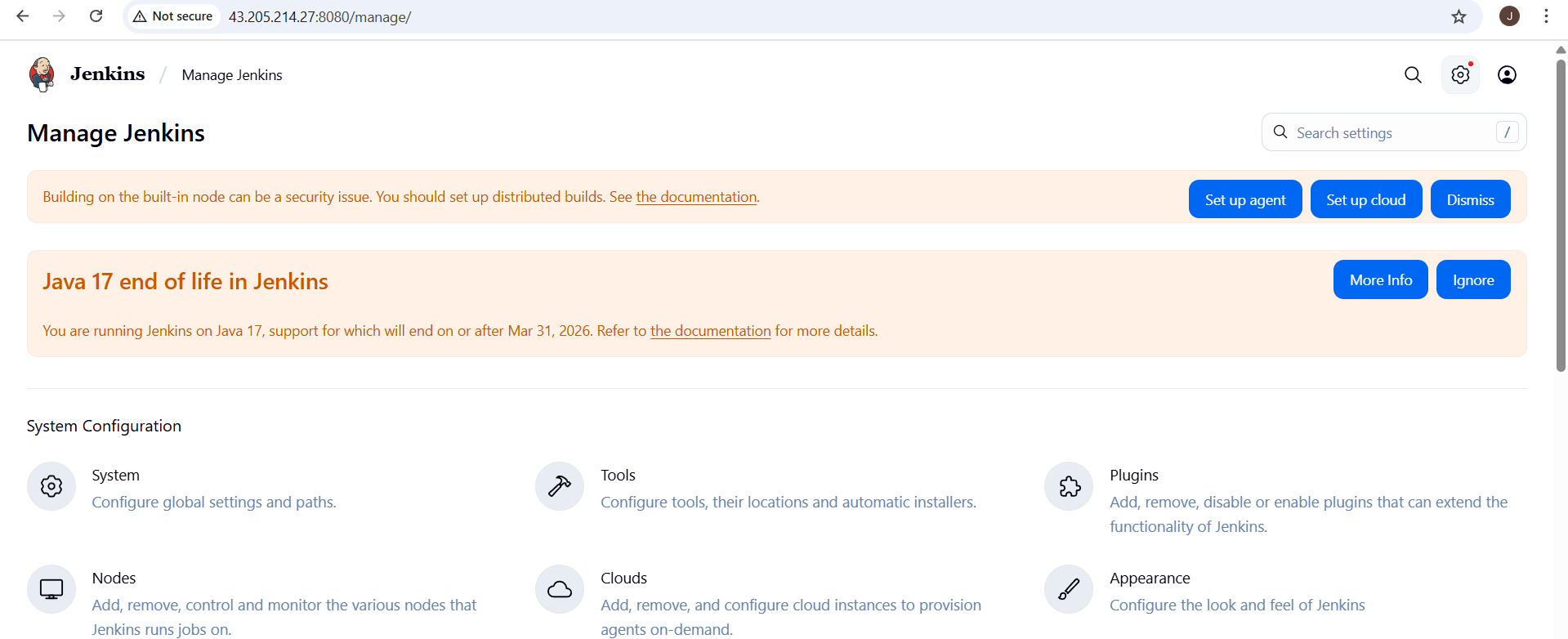
Created security group



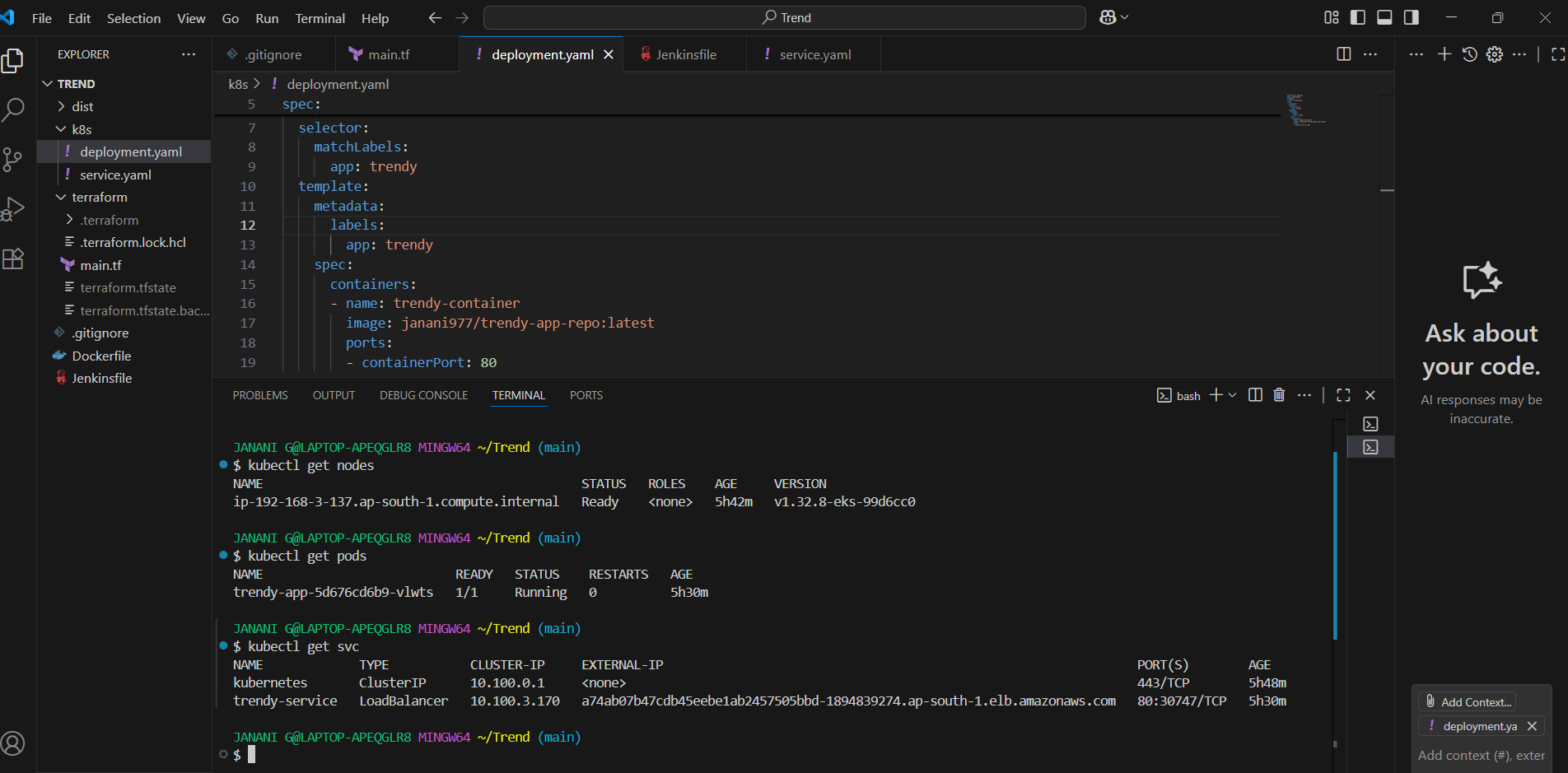
IAM Role Attached to EC2 with necessary permission



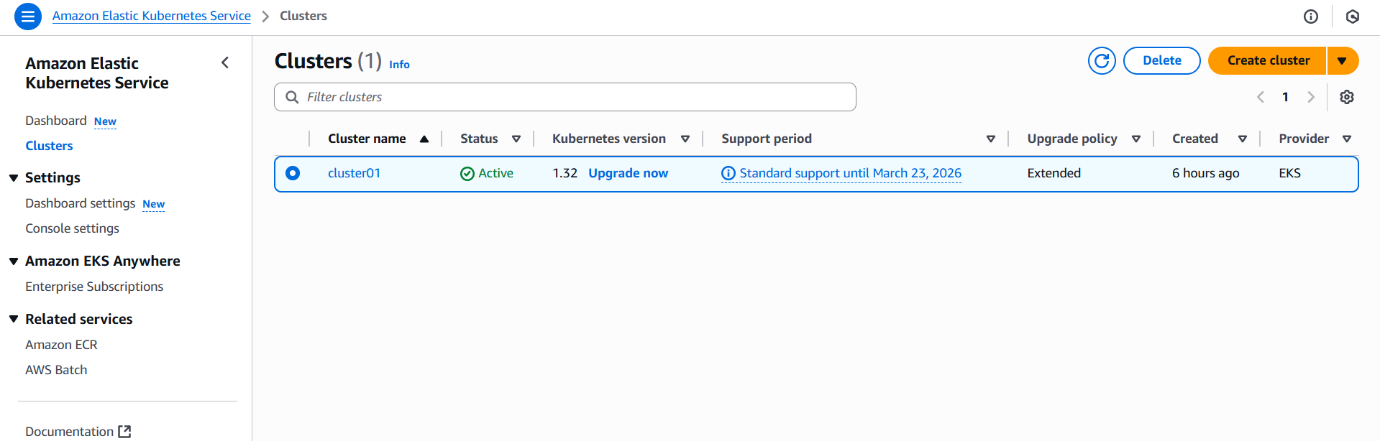
Jenkins login



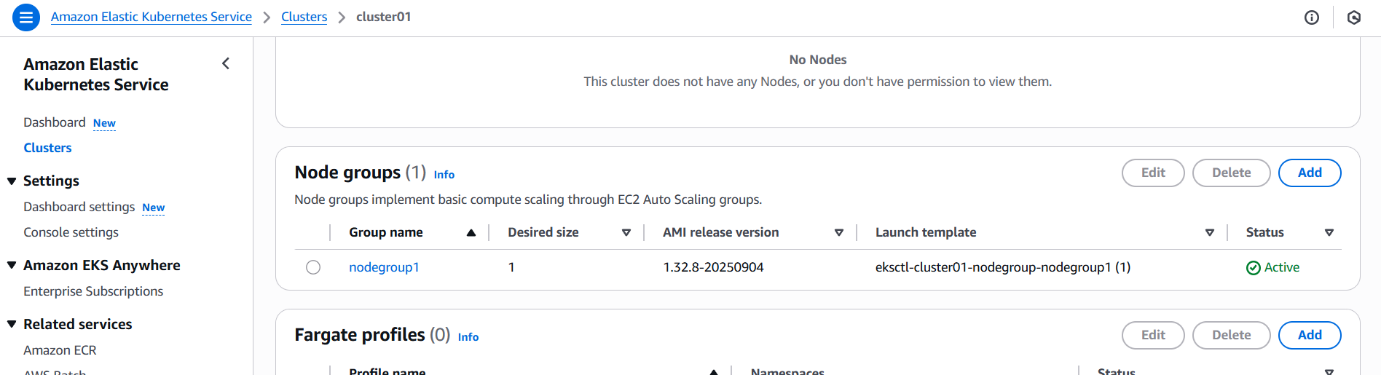
Kubernetes:   
Created deployment.yaml and service.yaml files and checked manually by deploying



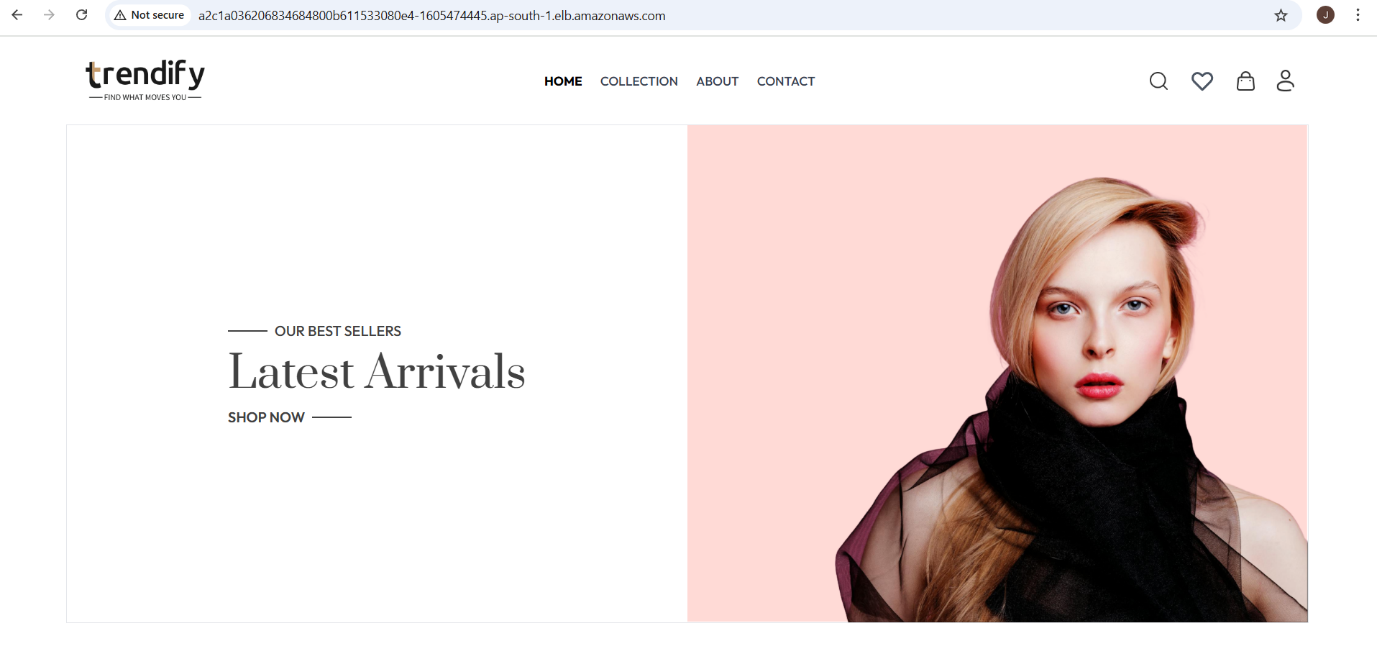
Created cluster



Created Nodegroup

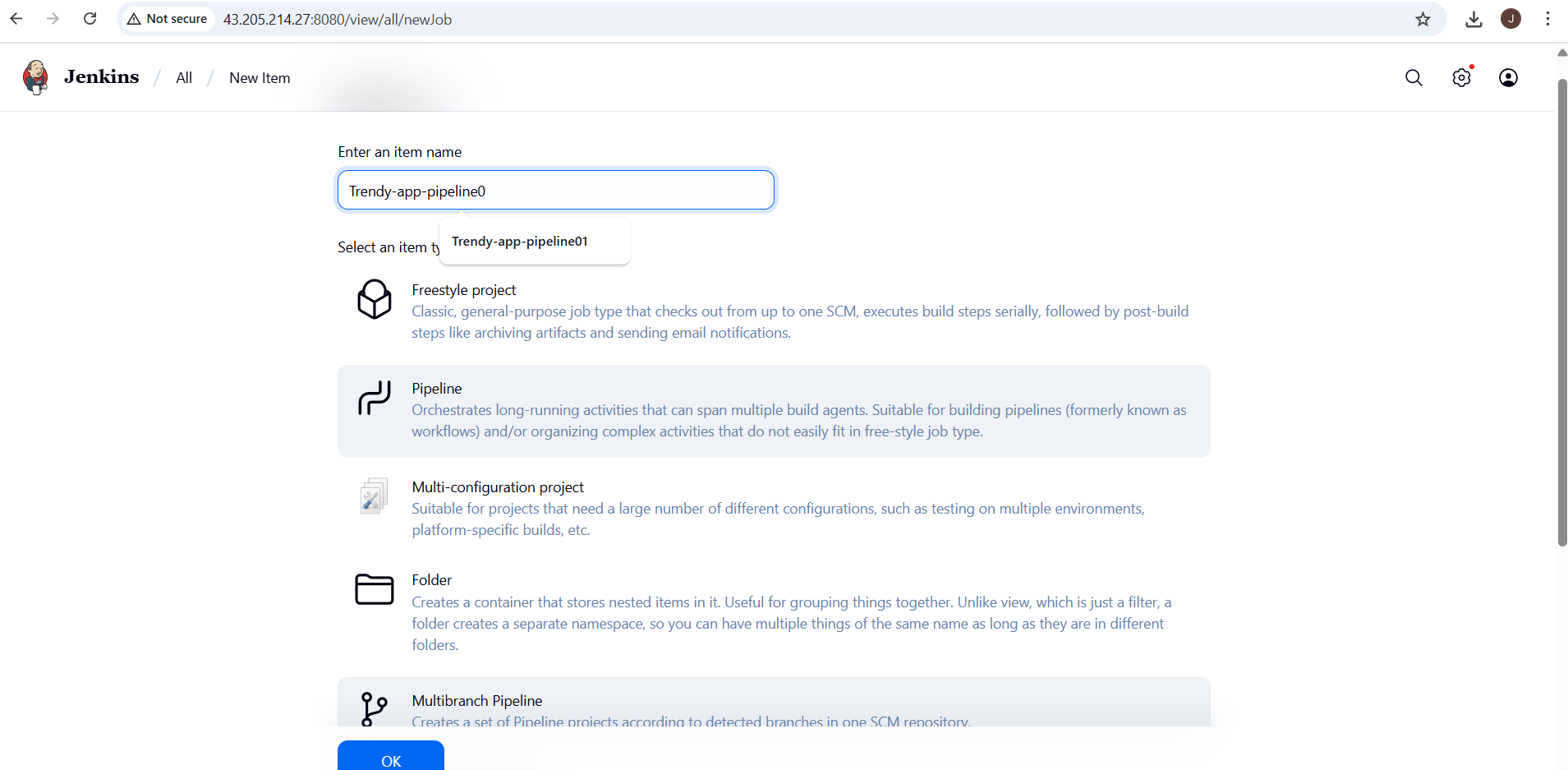


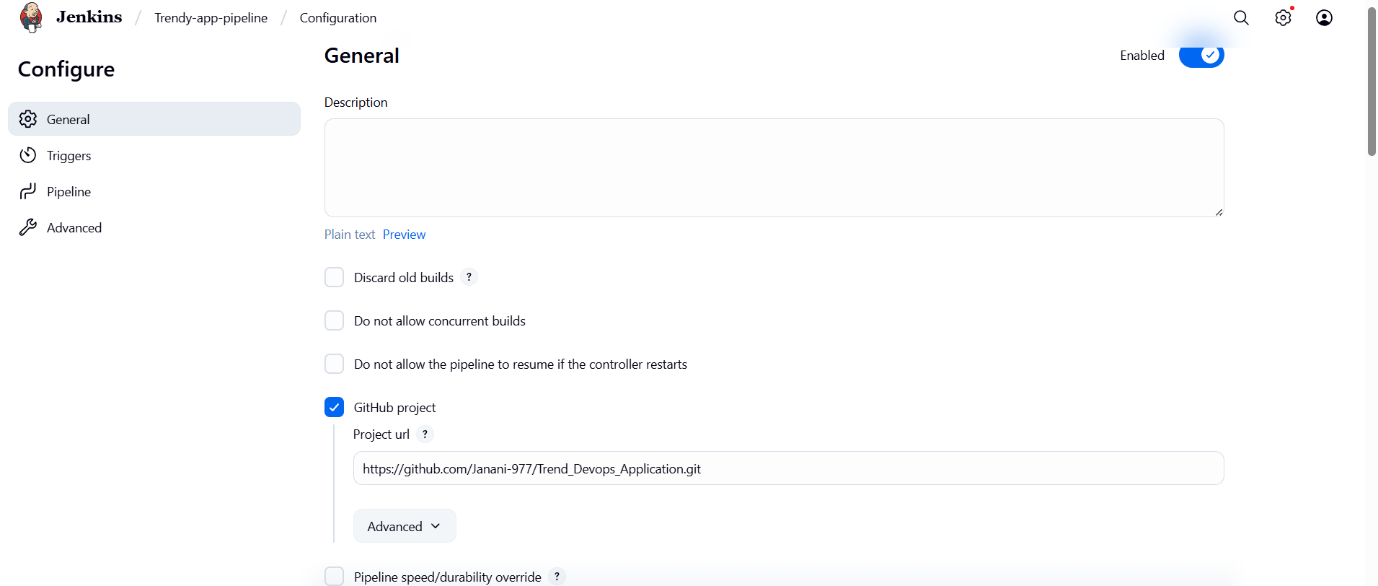
Checked via external IP(Load balancer)



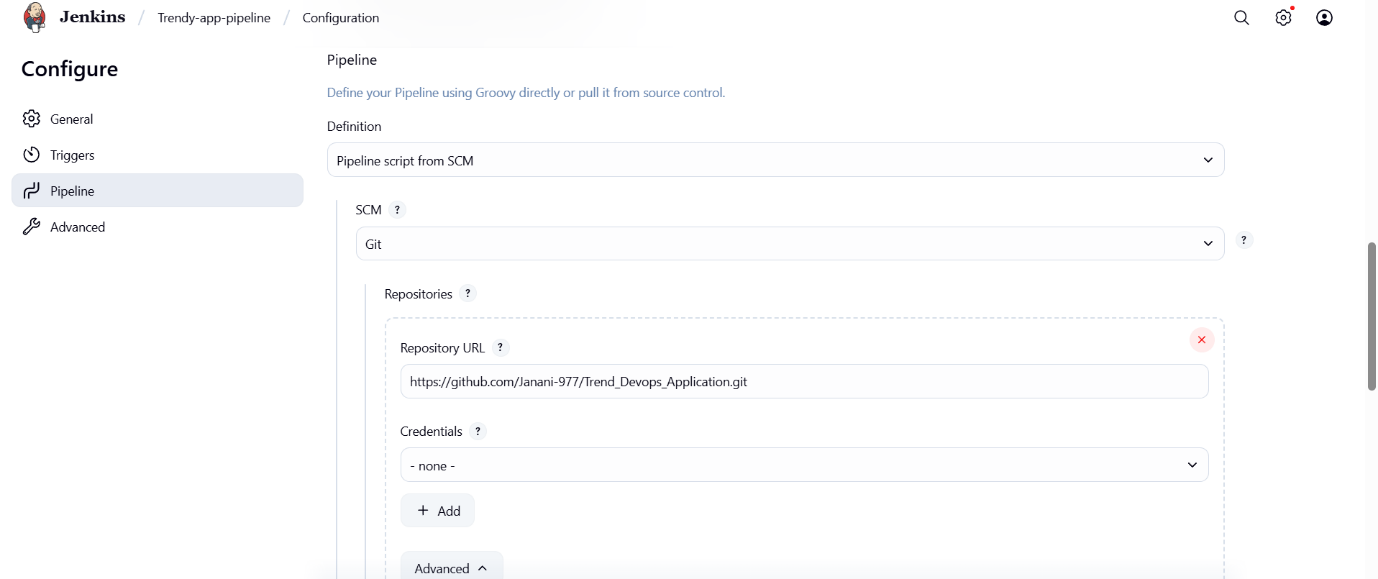
Jenkins:

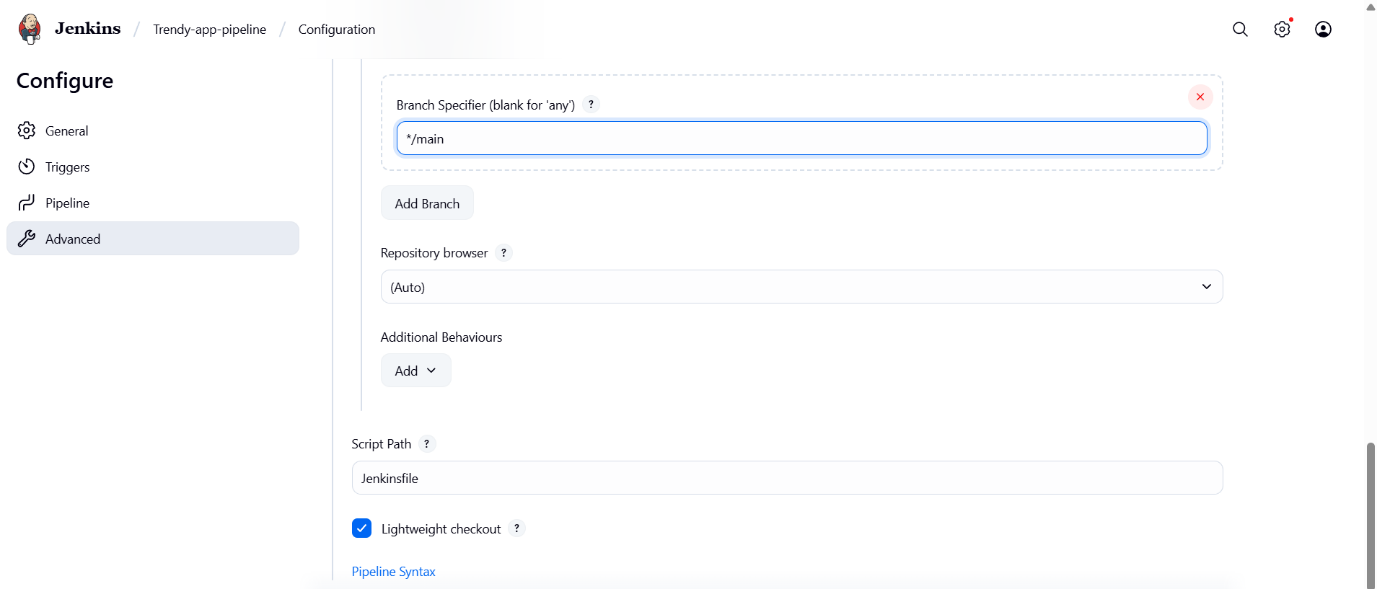
Creating Jenkins pipeline



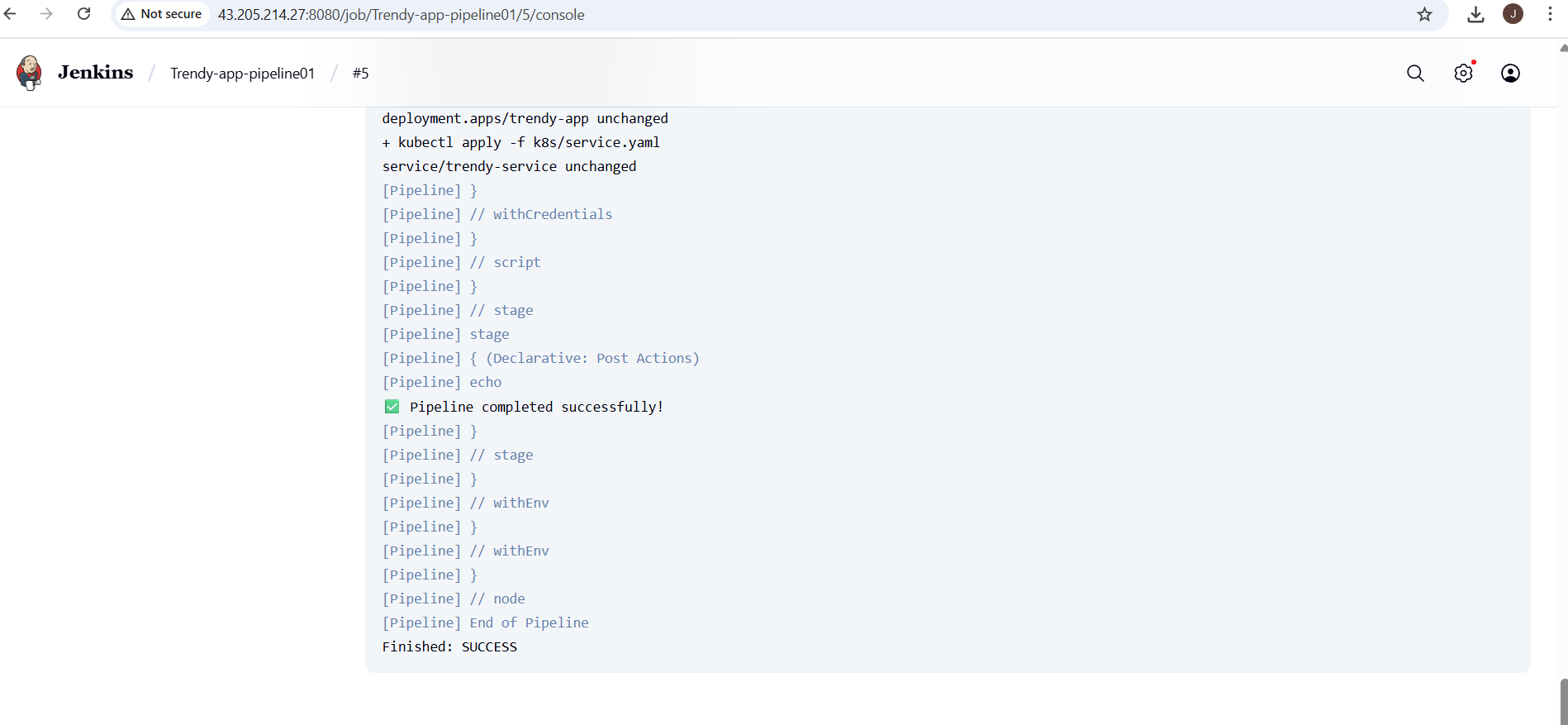








Pipeline got completed successfully



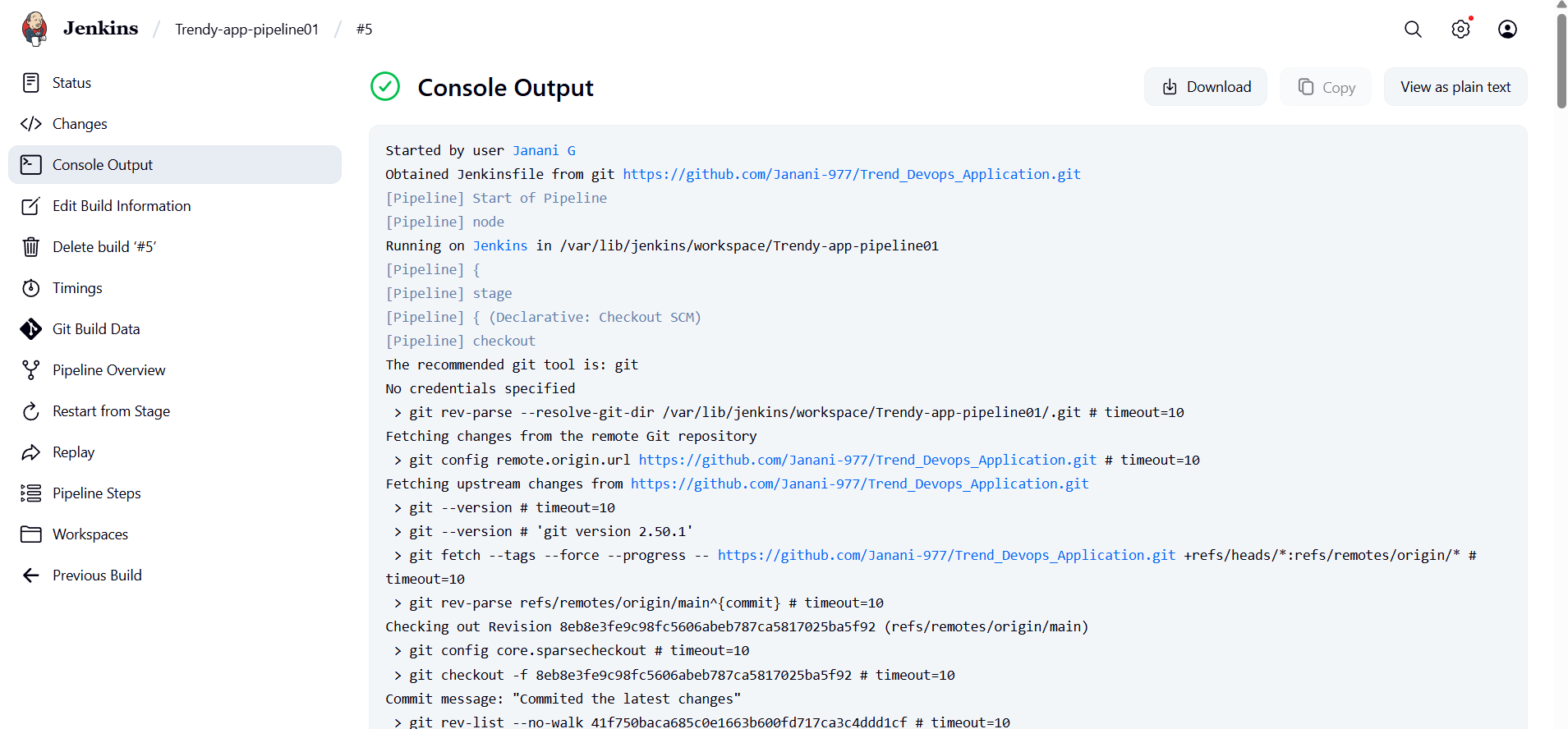
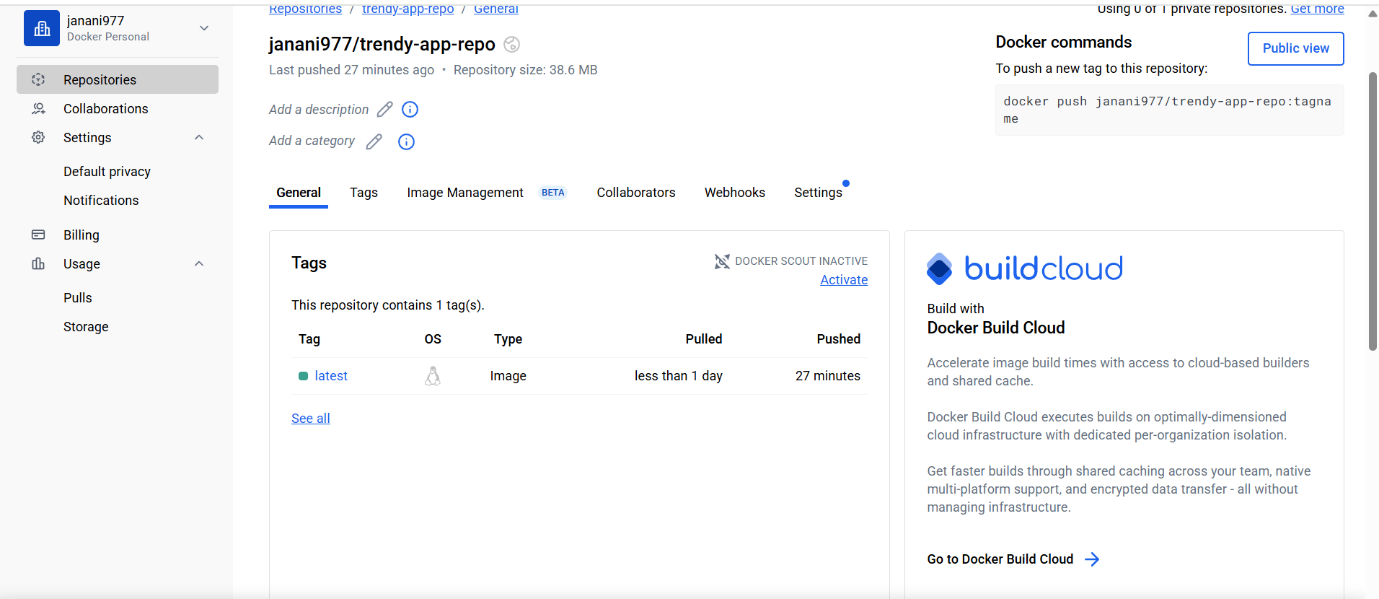
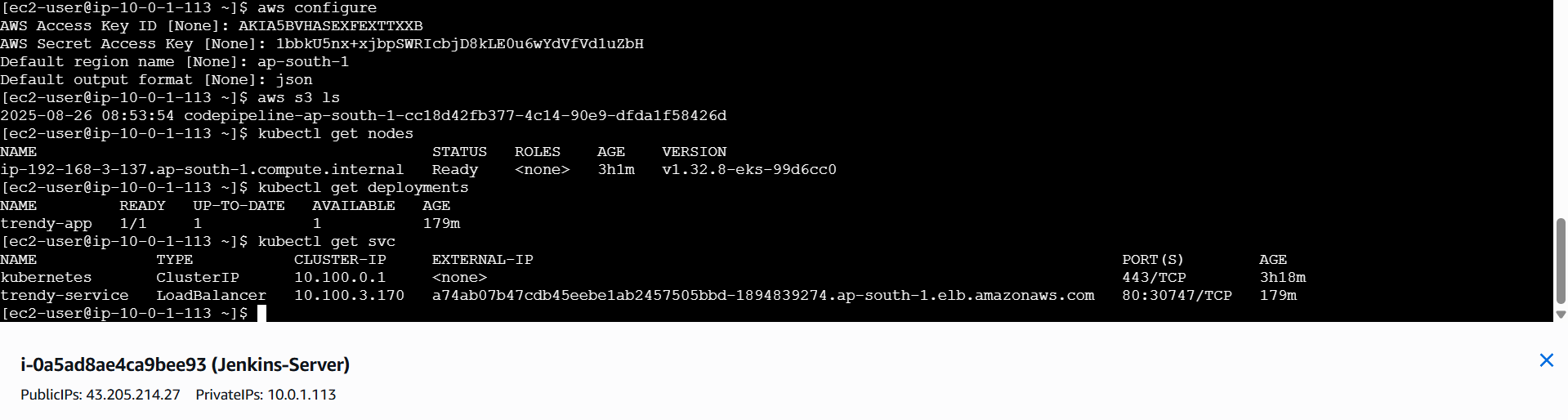


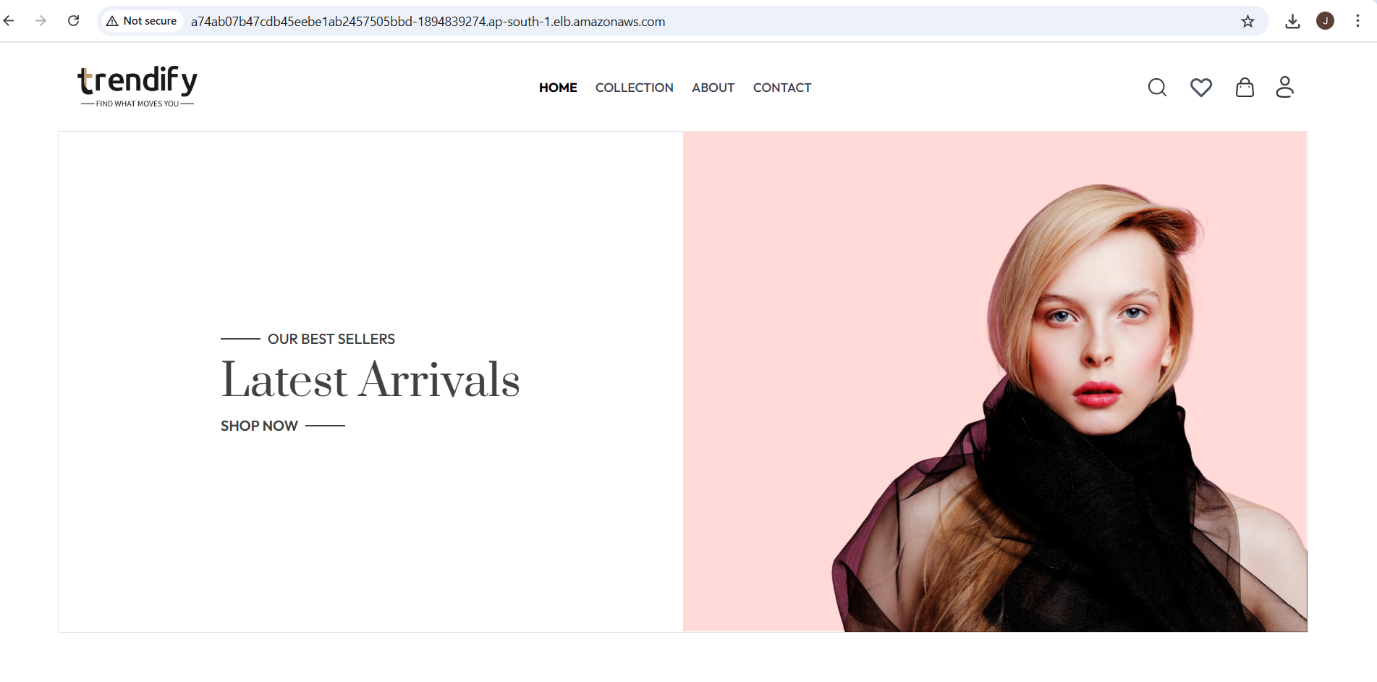
Image got pushed into dockerhub



In EC2 terminal , able to check all the deployment, pod, nodes and svc details as expected



Checked the output using load balancer able to successfully view the application in browser



Github: Below is the latest repo with all required code pushed successfully

