CICD for Docker Kubernetes using Jenkins. Build docker images and Deploy continuously as fast as code commit.

**Tools:**

Kubernetes orchestration tool

Docker container runtime

Docker Hub container registry

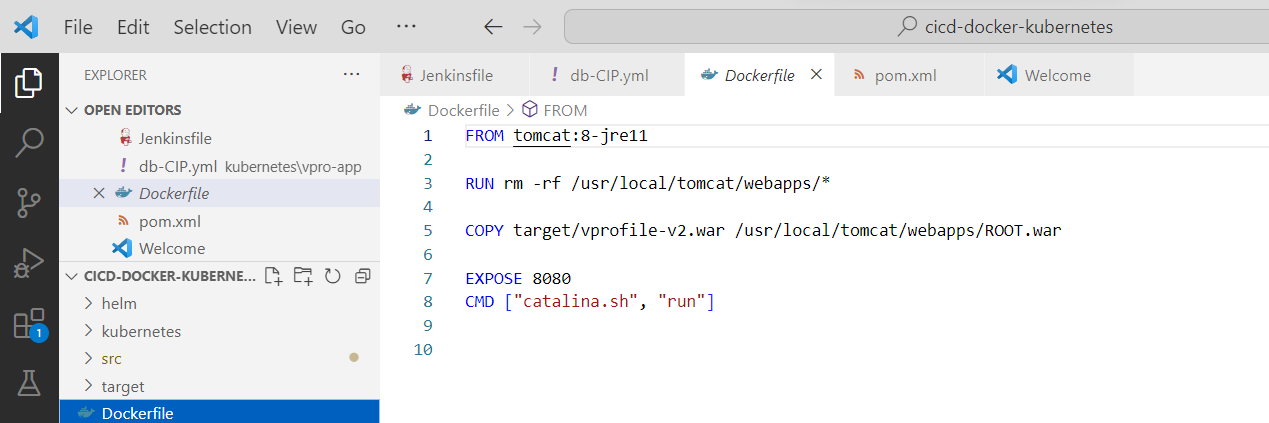
Helm packaging and deployment on Kubernetes

Git version control system

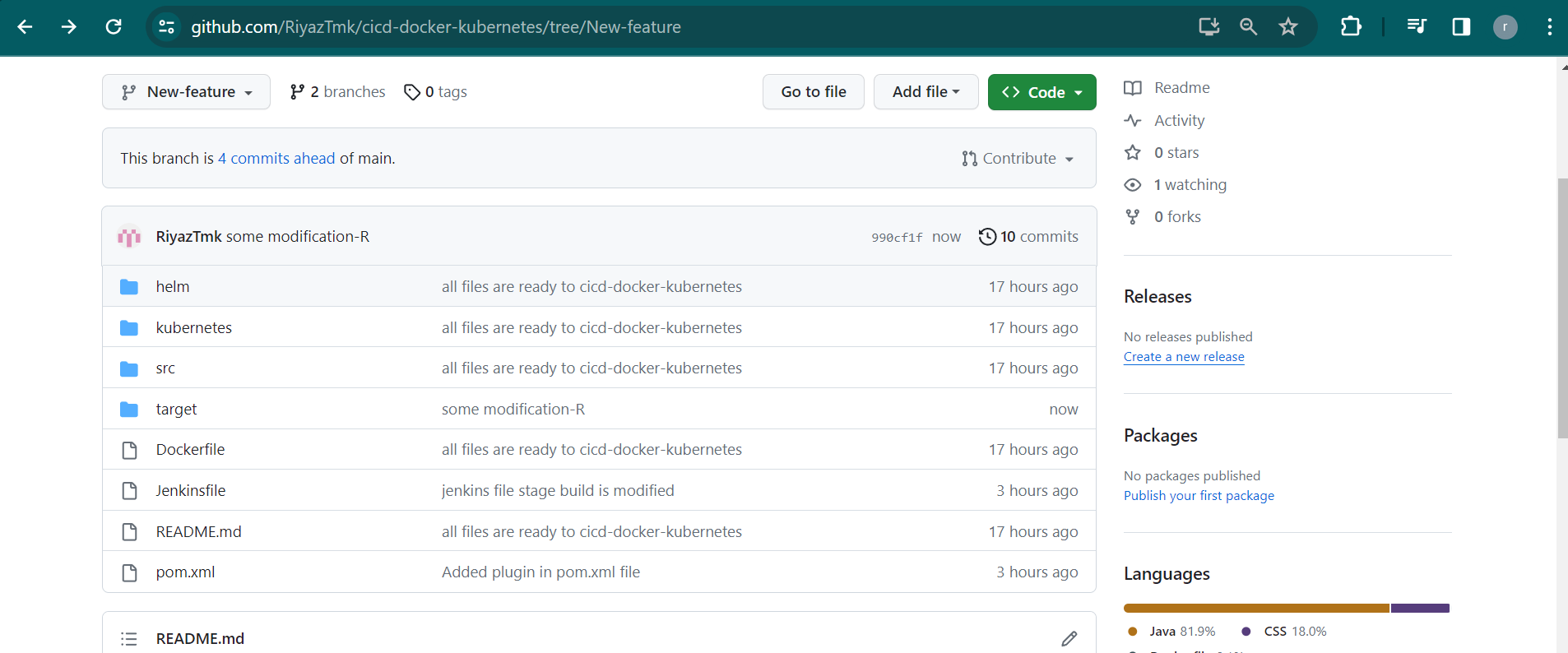
Maven build tool

Sonarcube code Analysis server.

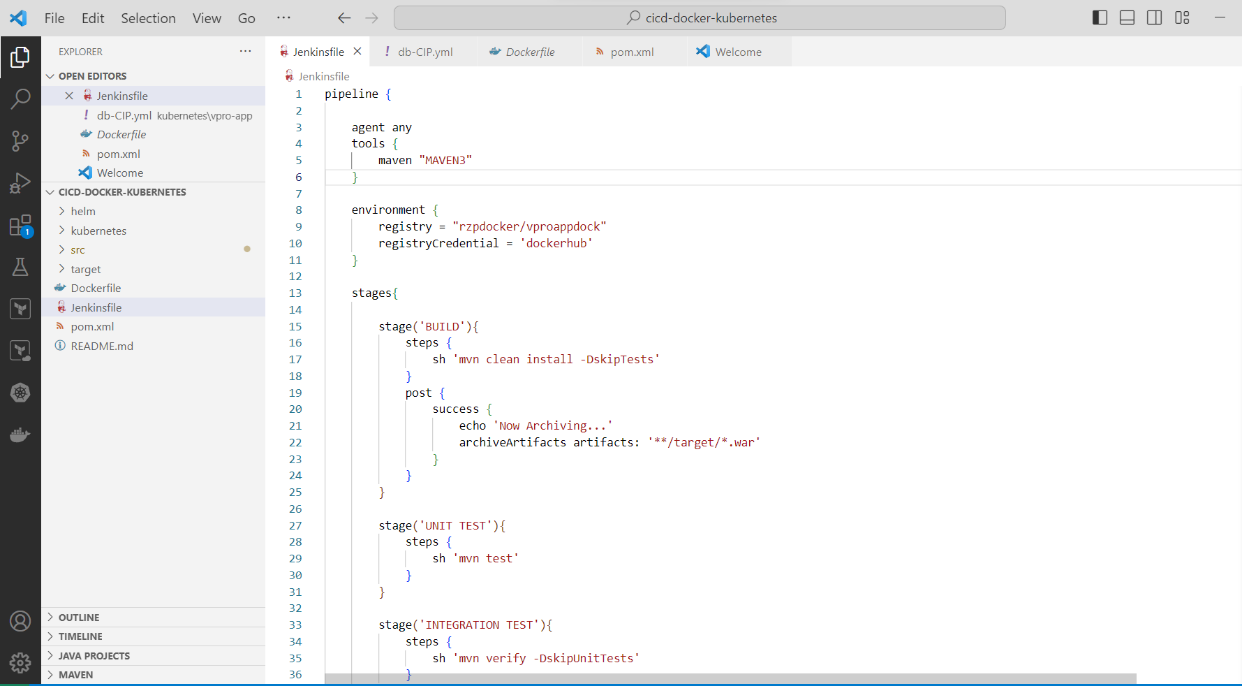
Docker File:

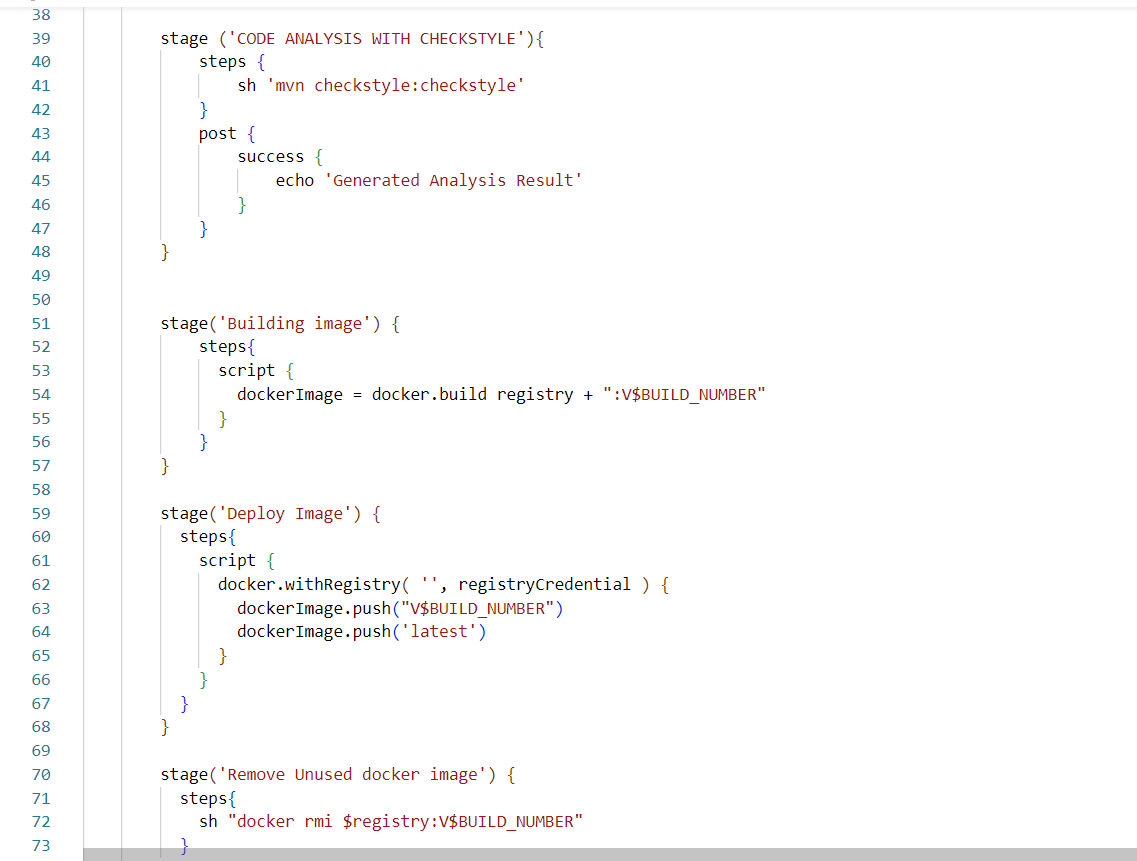


Jenkinsfile, docker file, helm folder, source code, pom file in a repository.



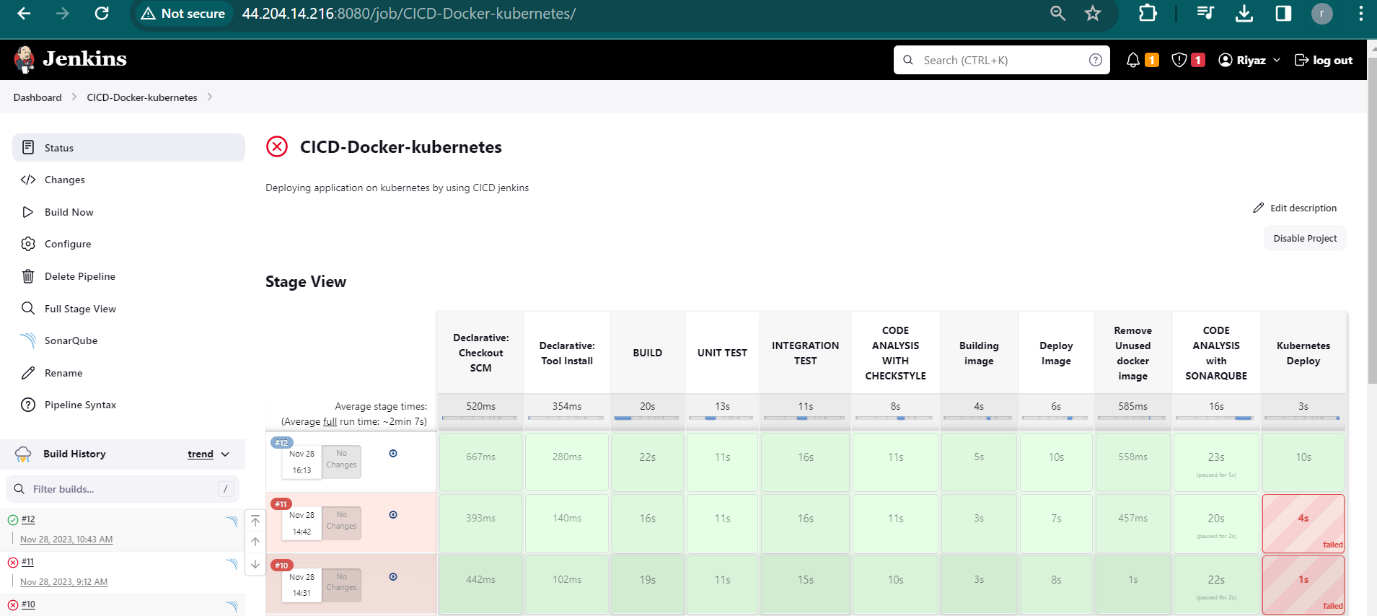
Jenkins file:

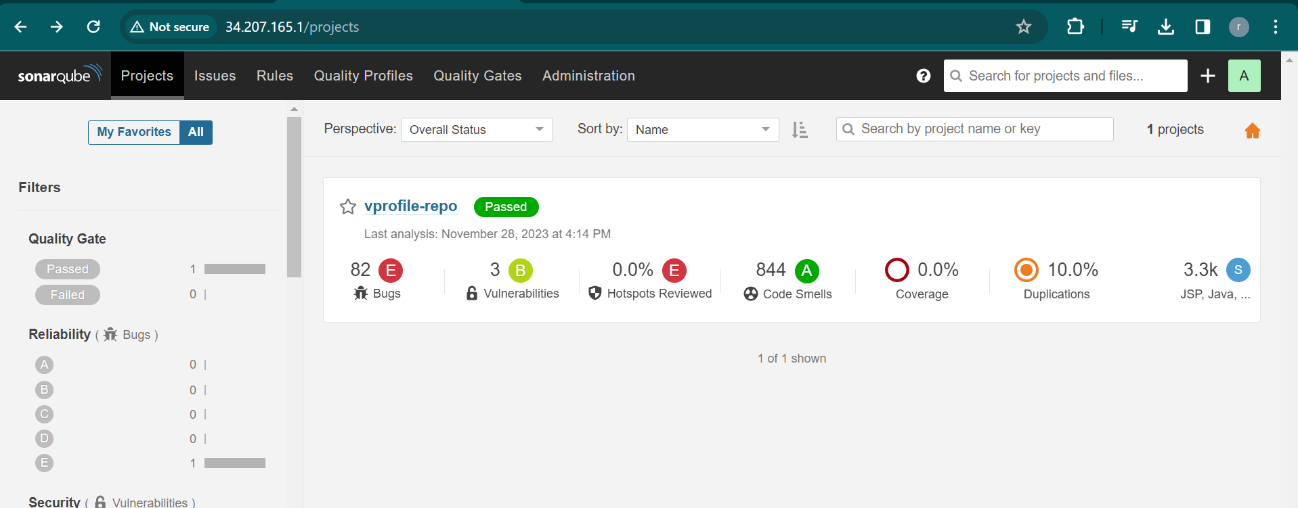


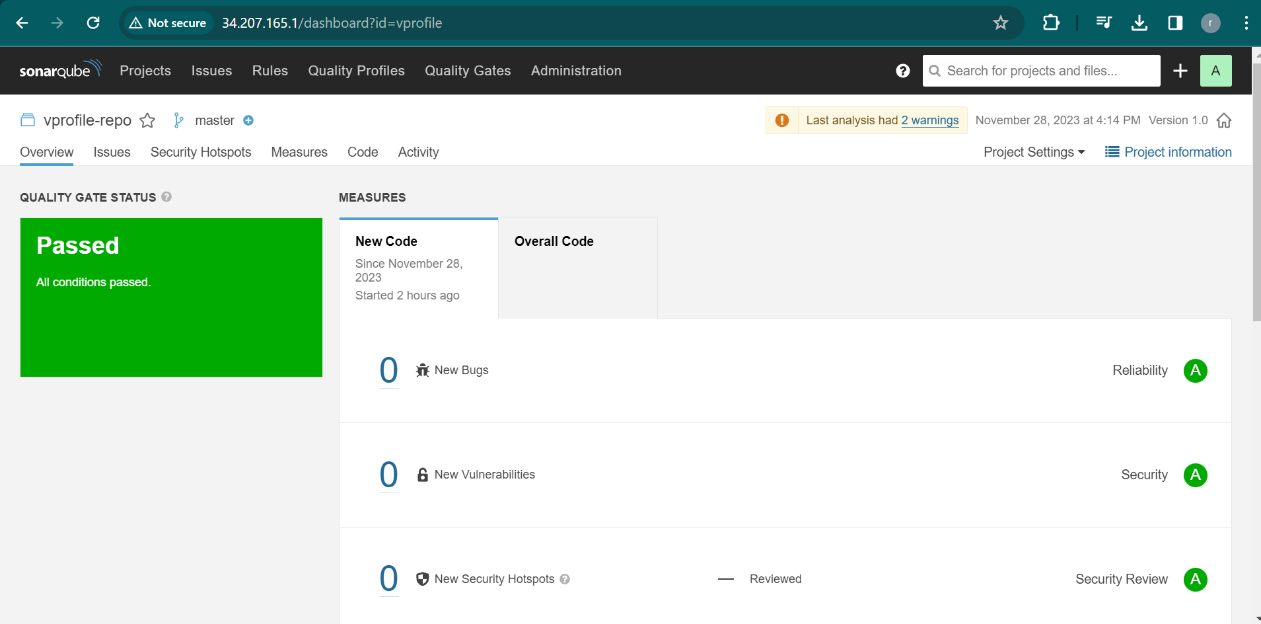


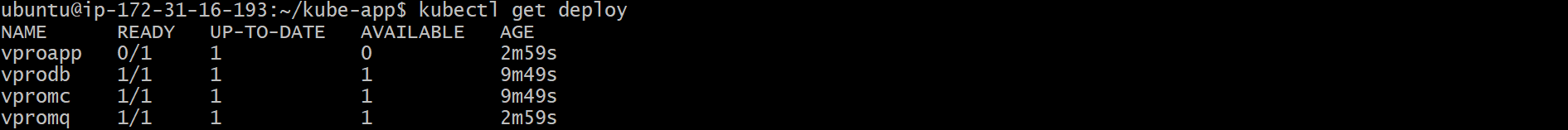


CICD pipeline:





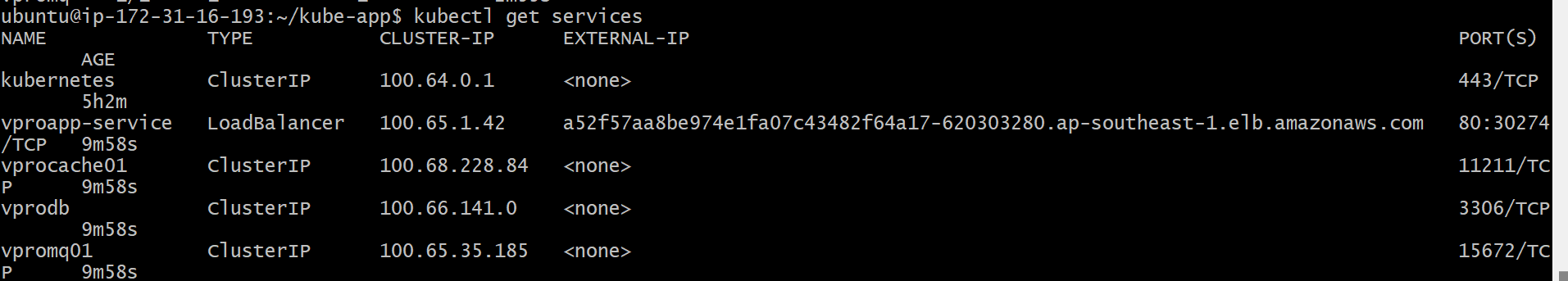


Deployments:

Services:

1.cluster IP services for internal request.

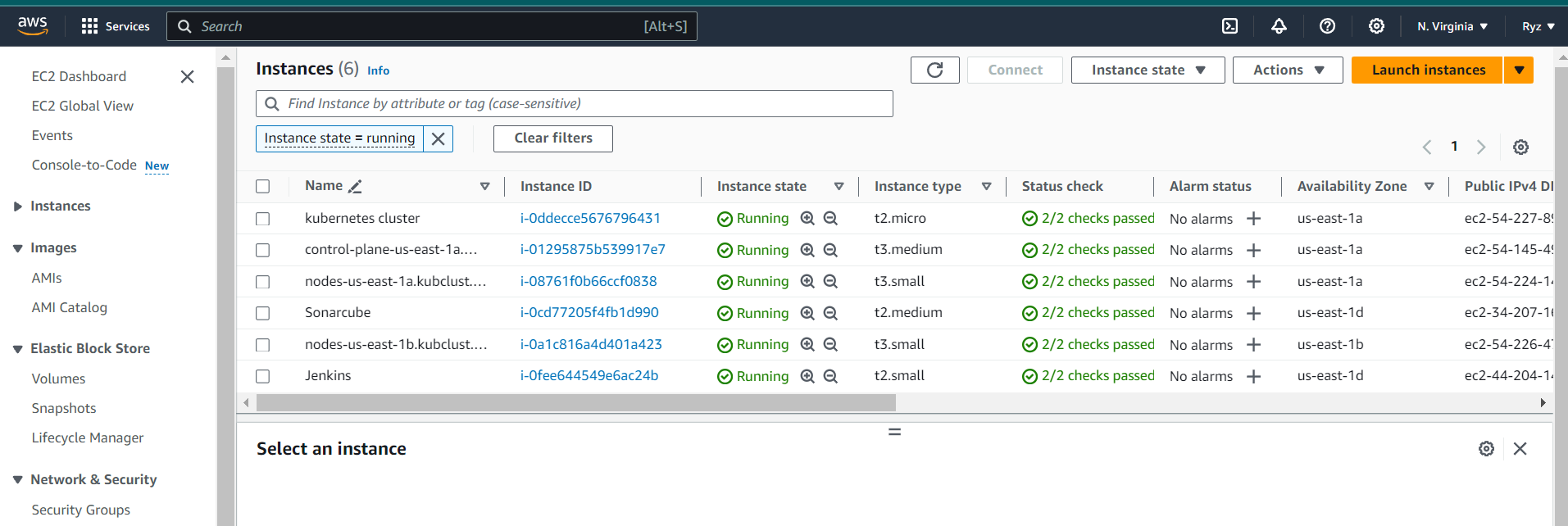
2. Load balancer service for outer request.



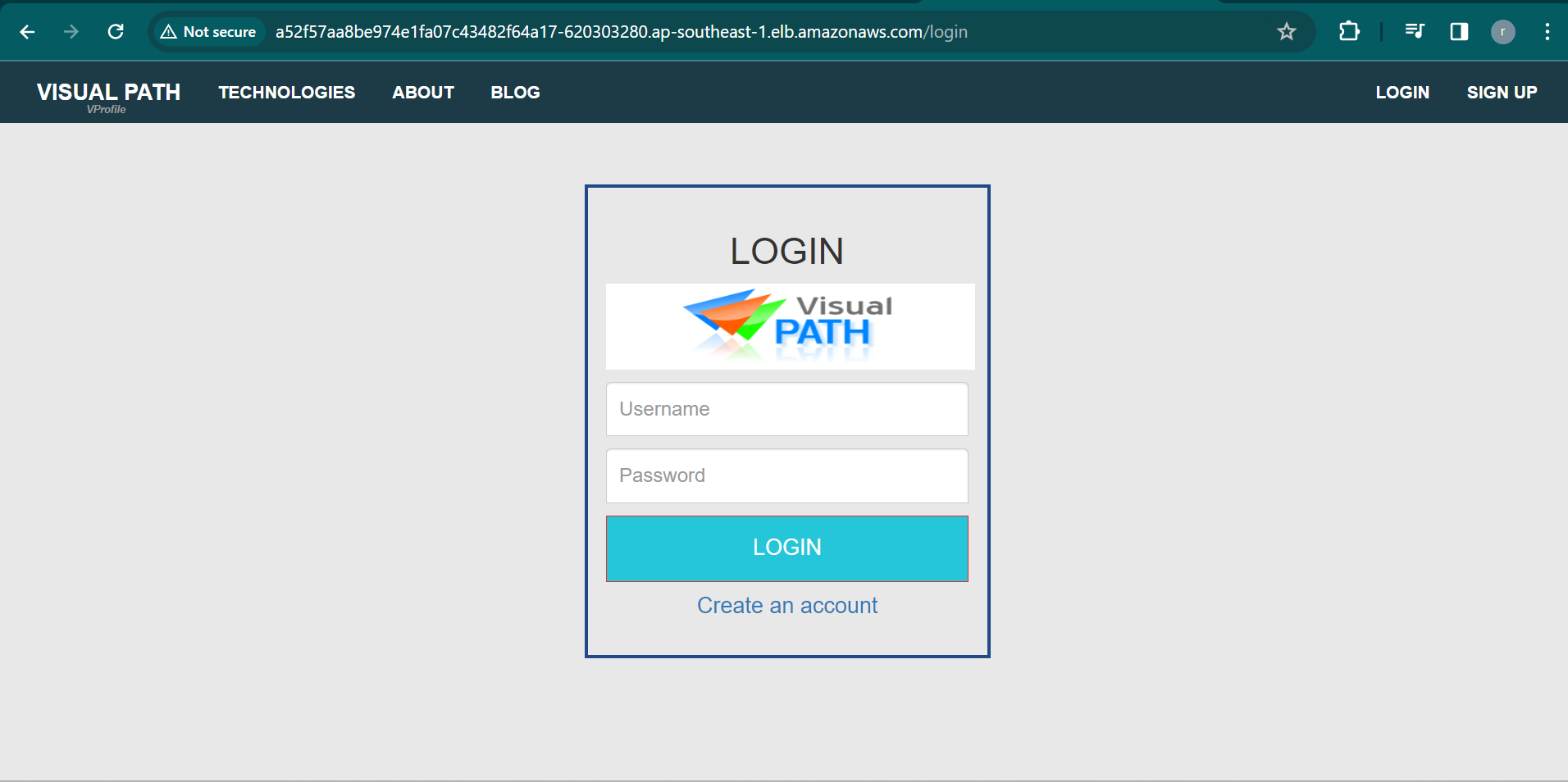
Pods:



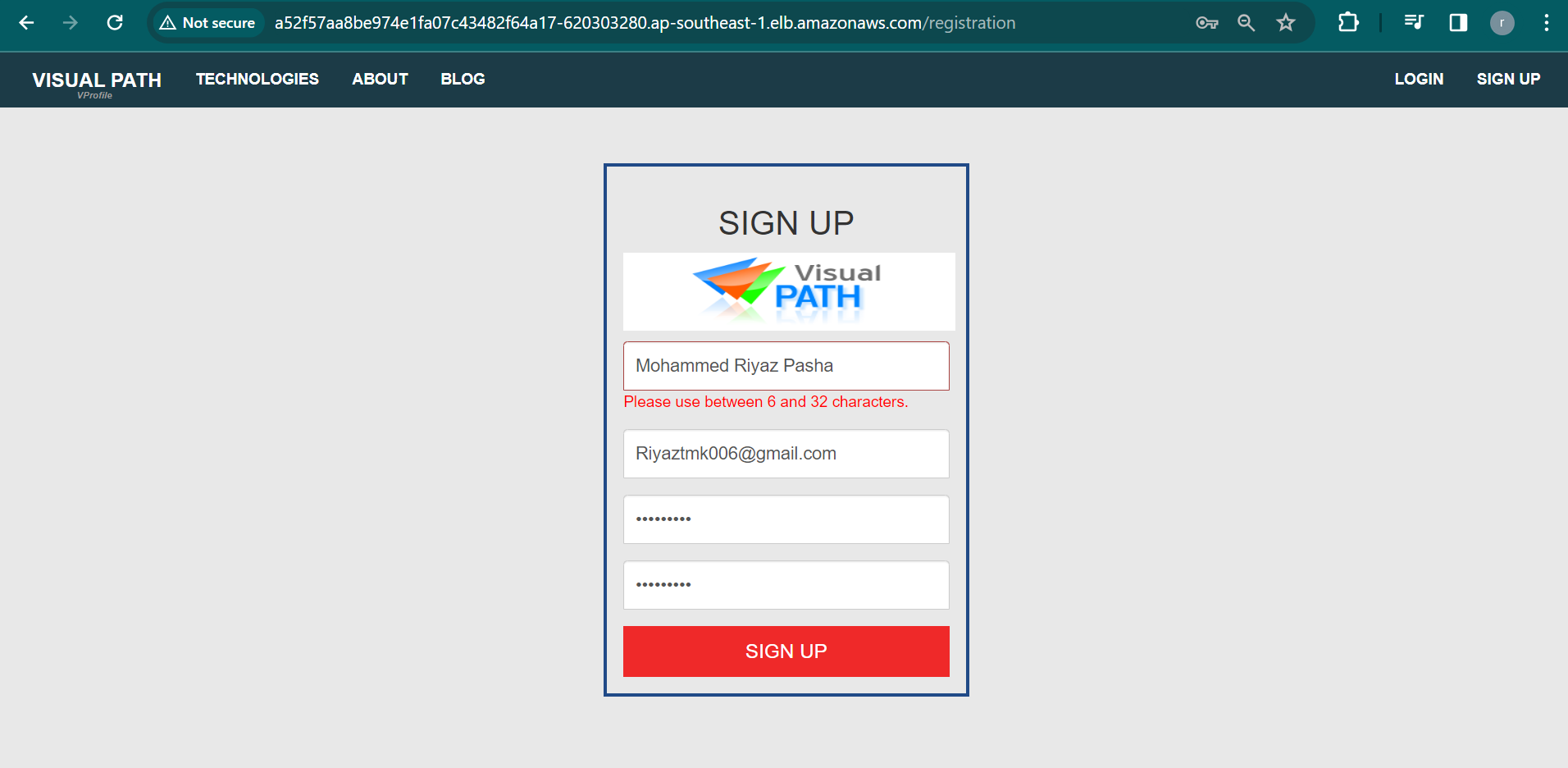
Servers:



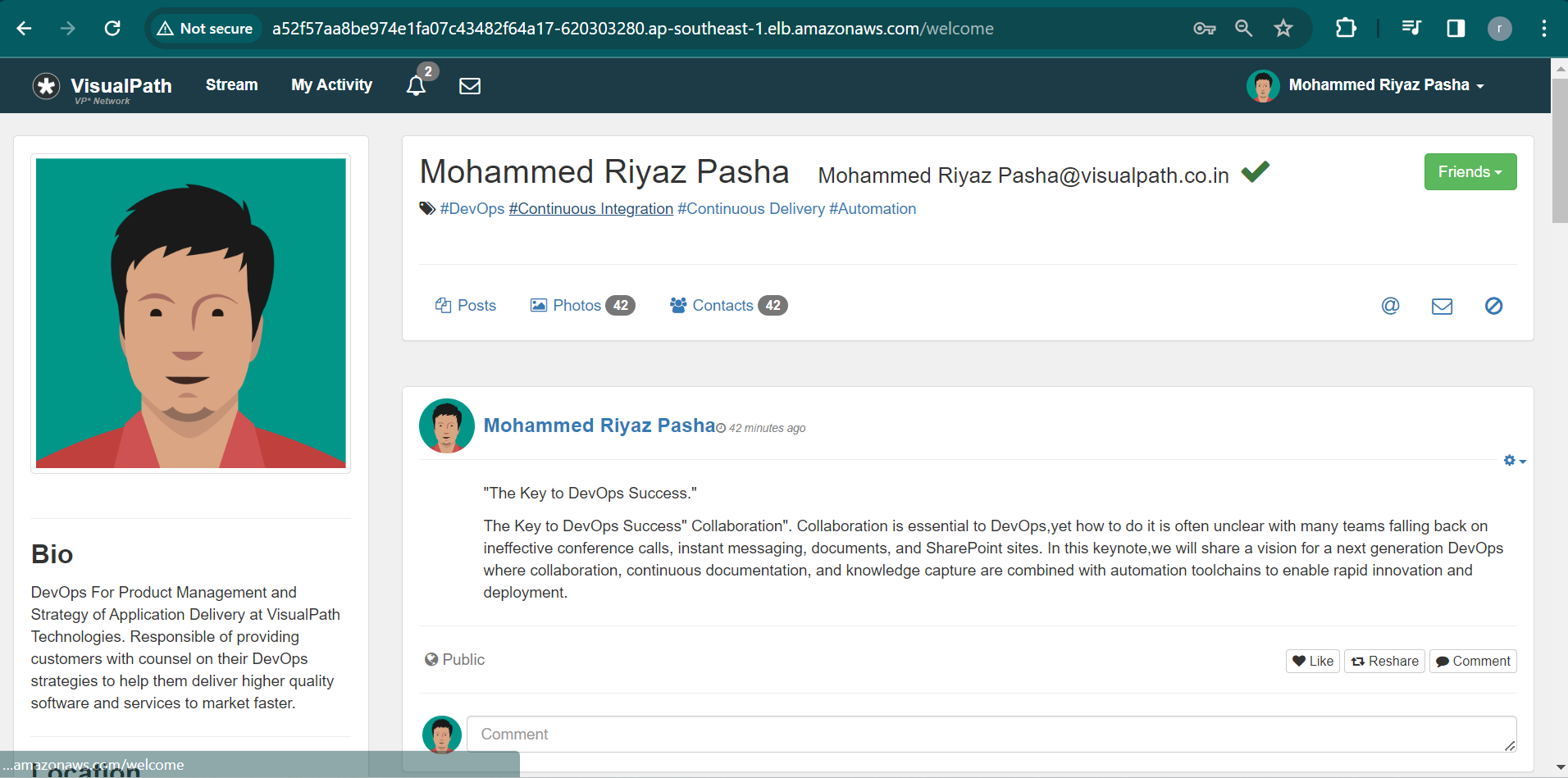
After I hit load balancer DNS website is up.



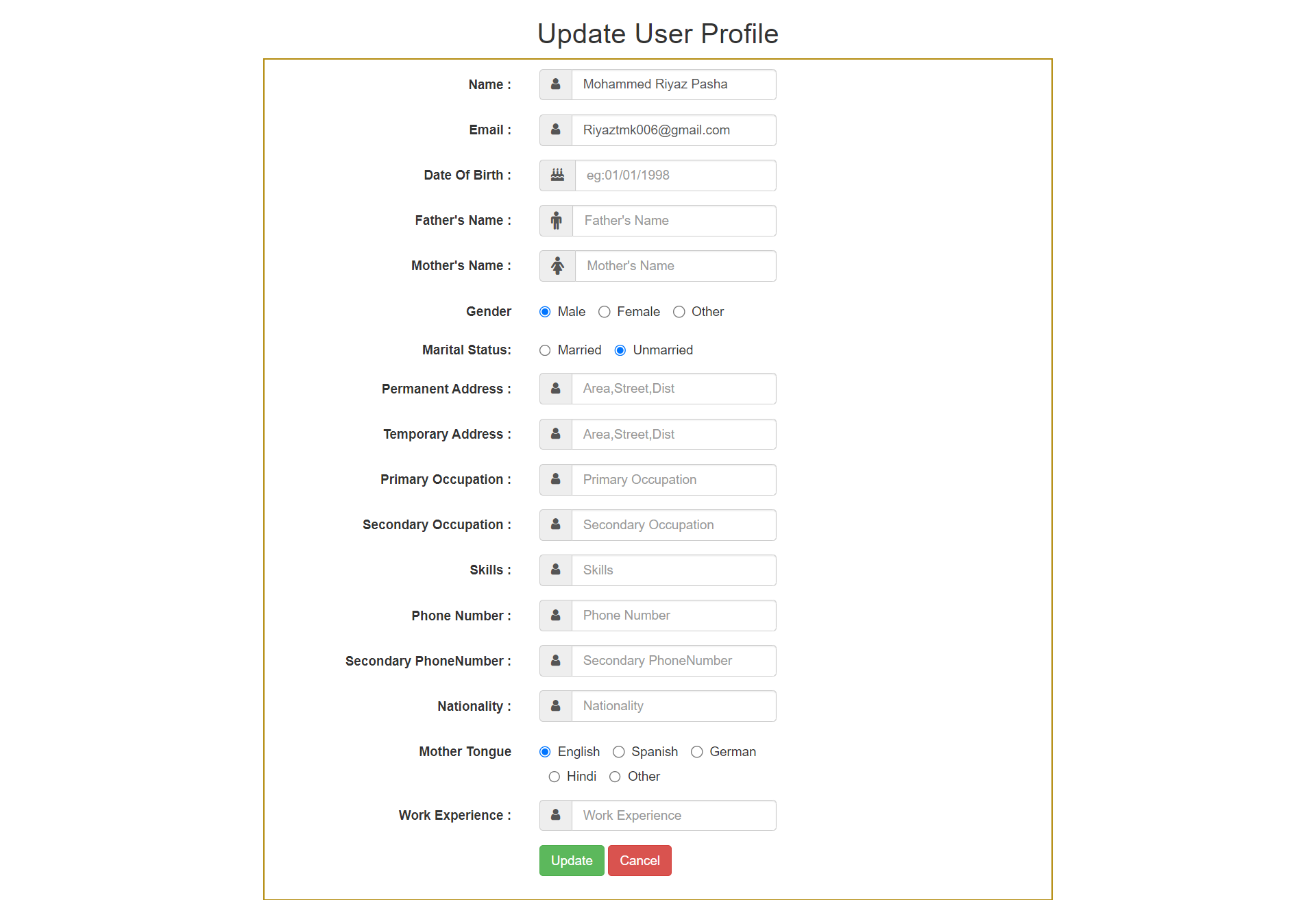
I have entered the data in the fields.

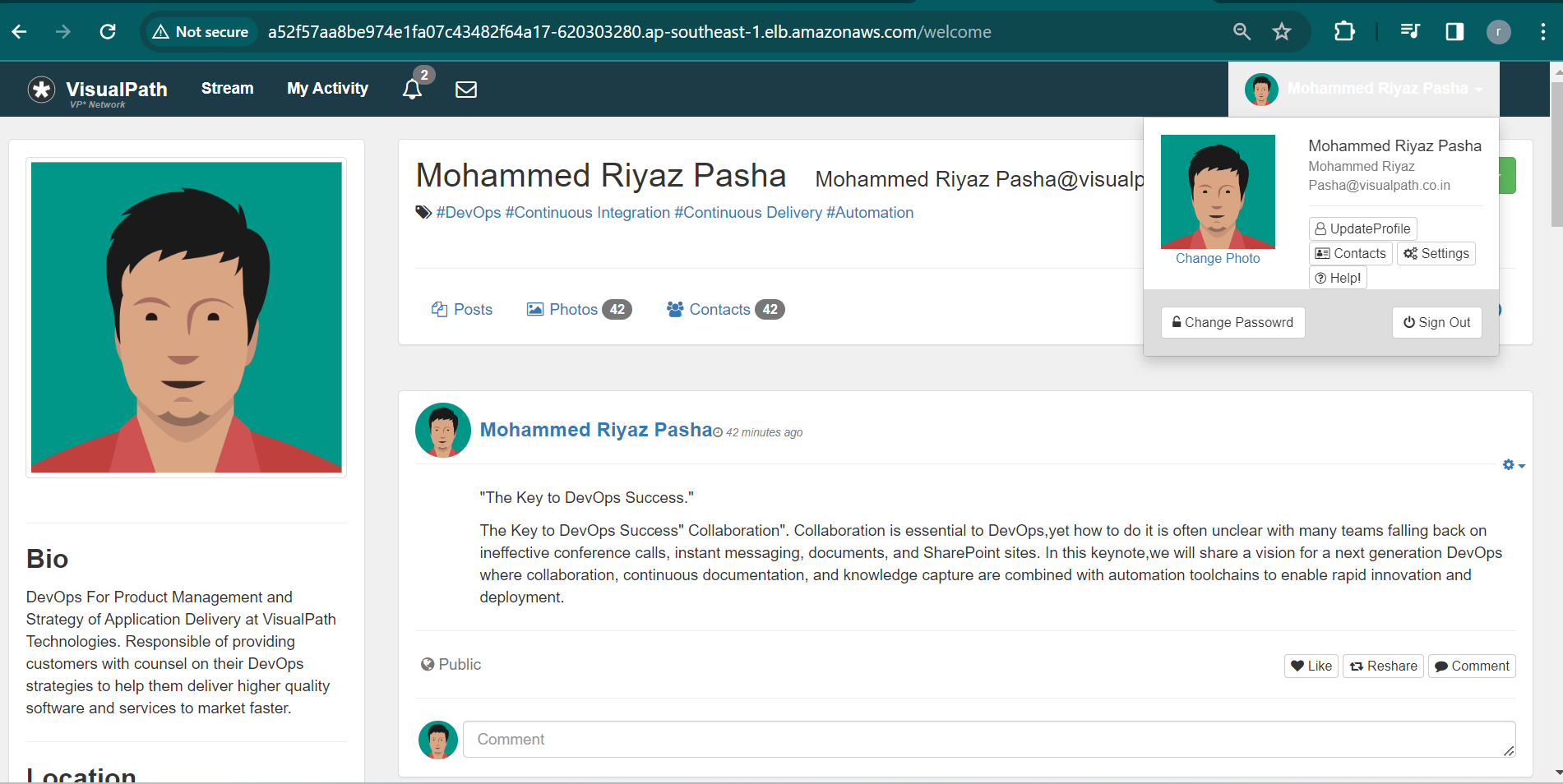


Sign up is done successfully.



You can update profile.





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