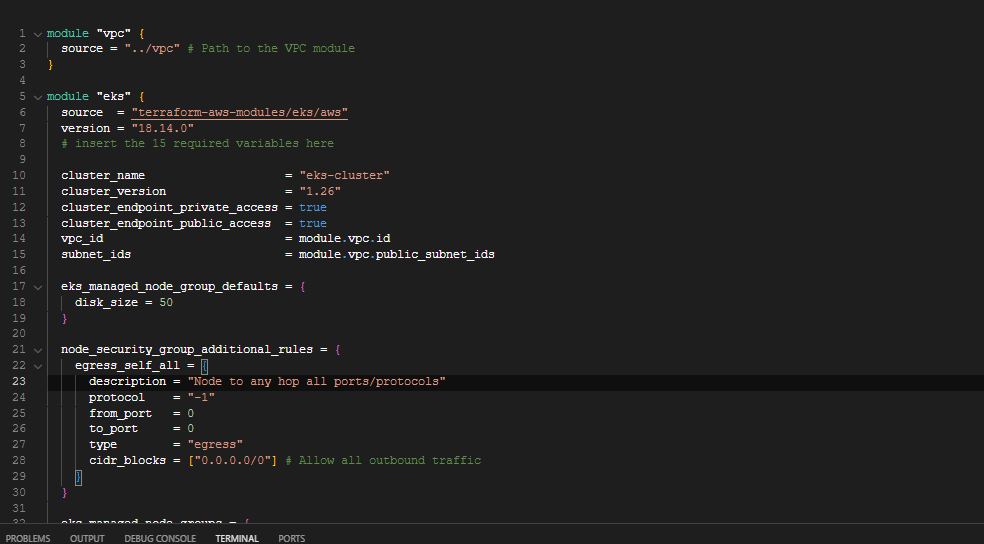
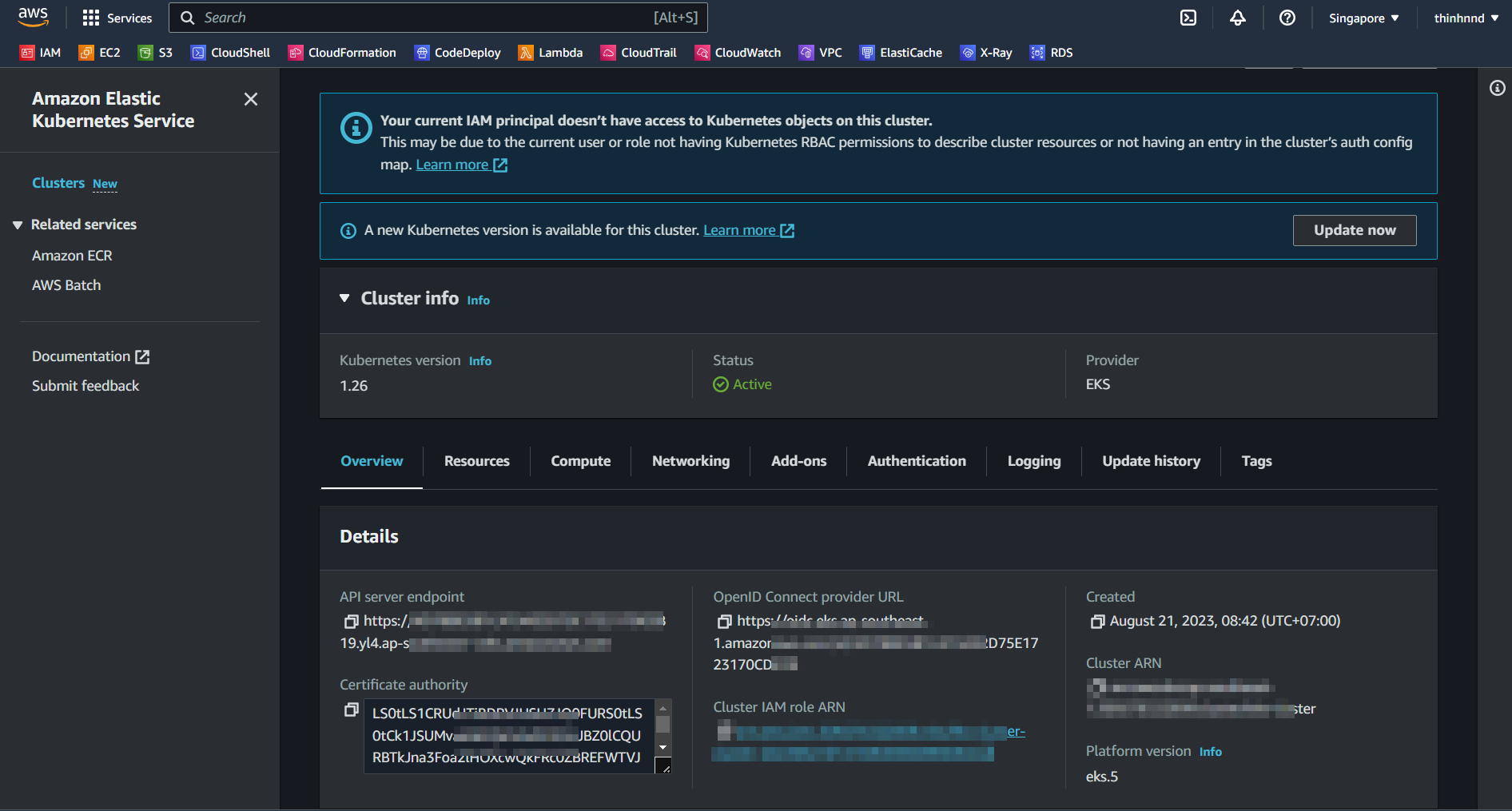
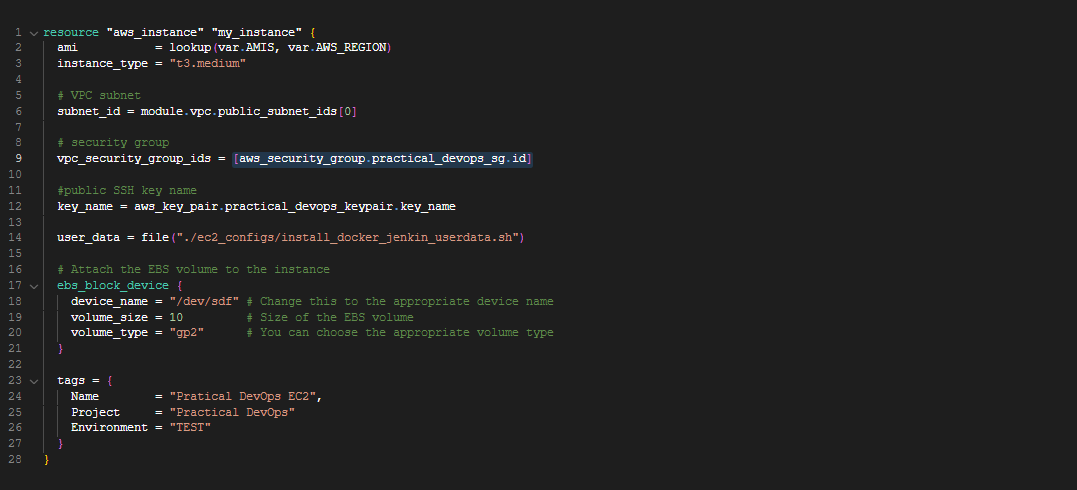
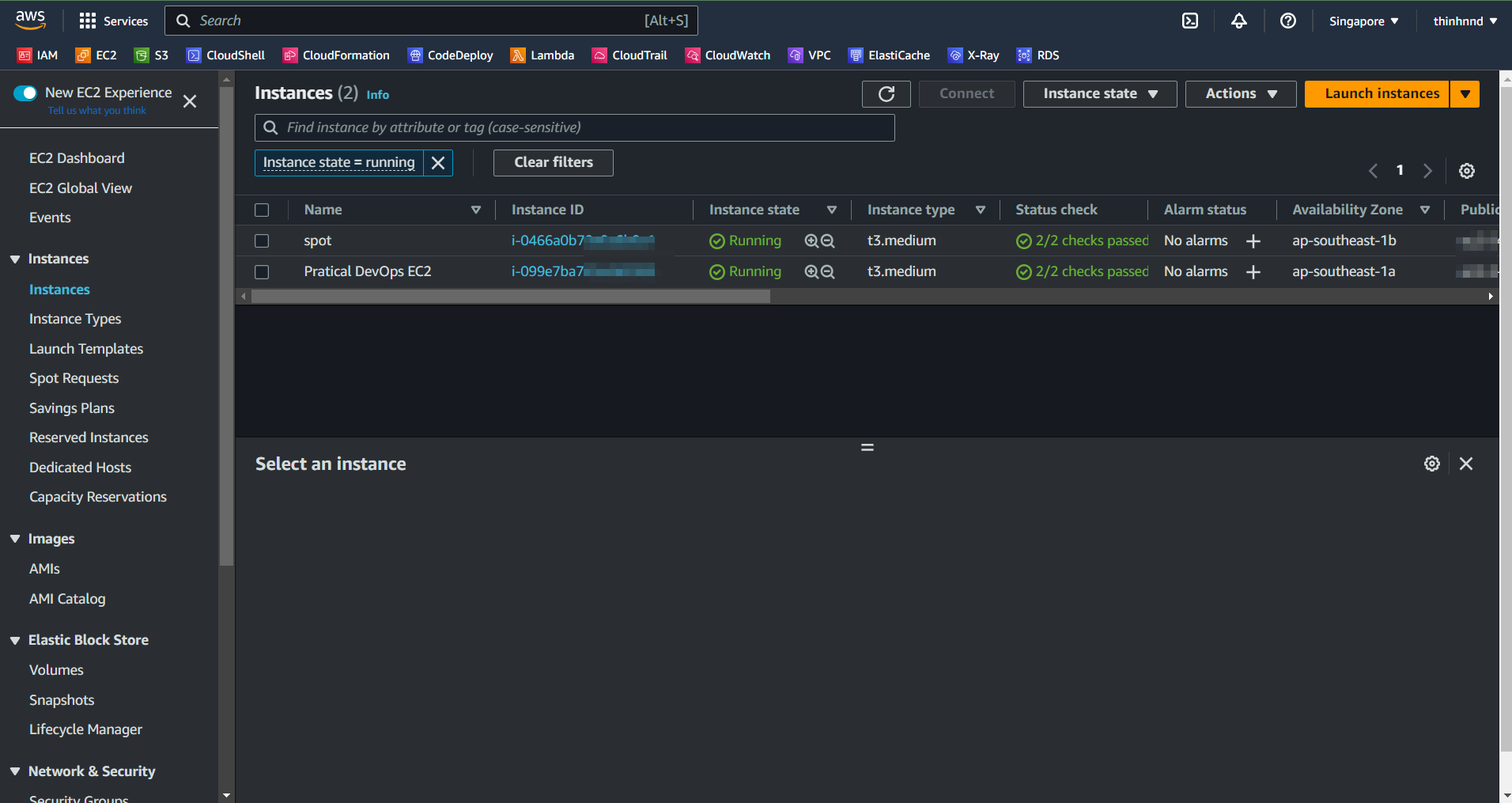
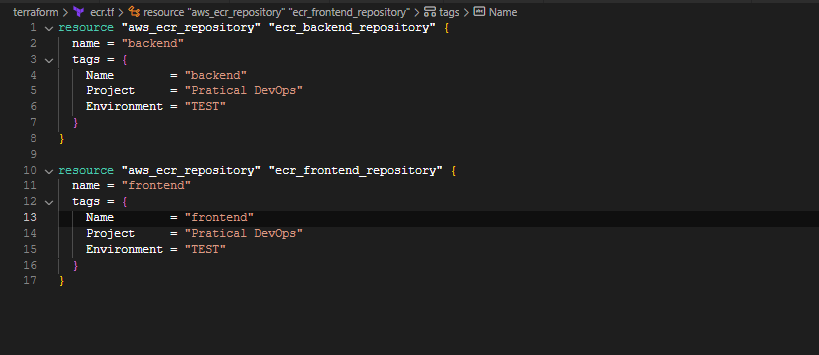
# DevOps Practical Assignment report

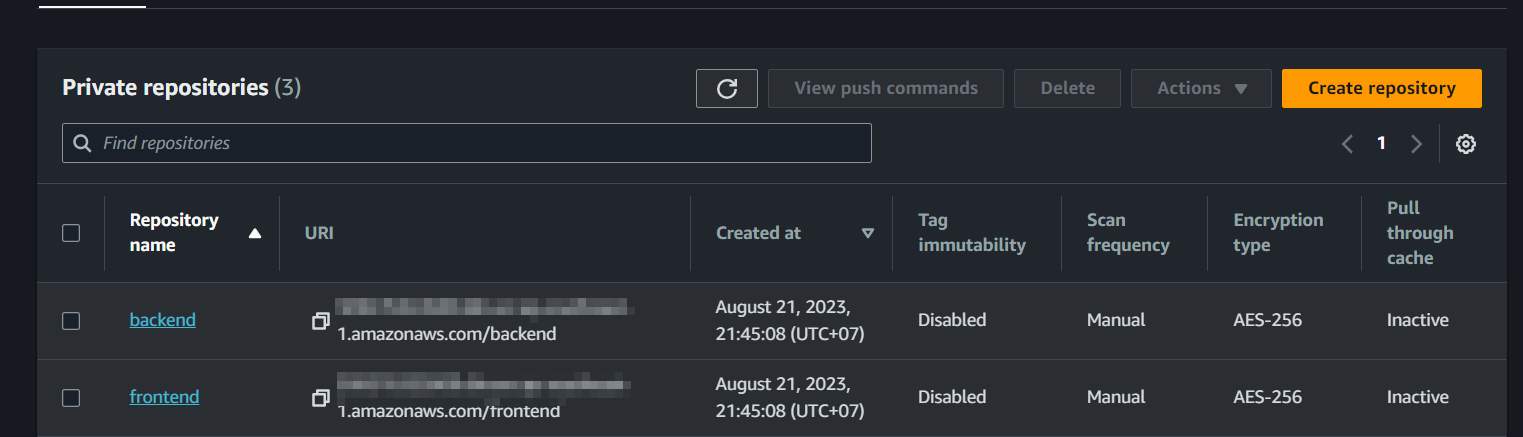
Name: Thinh Nguyen Nie Duc

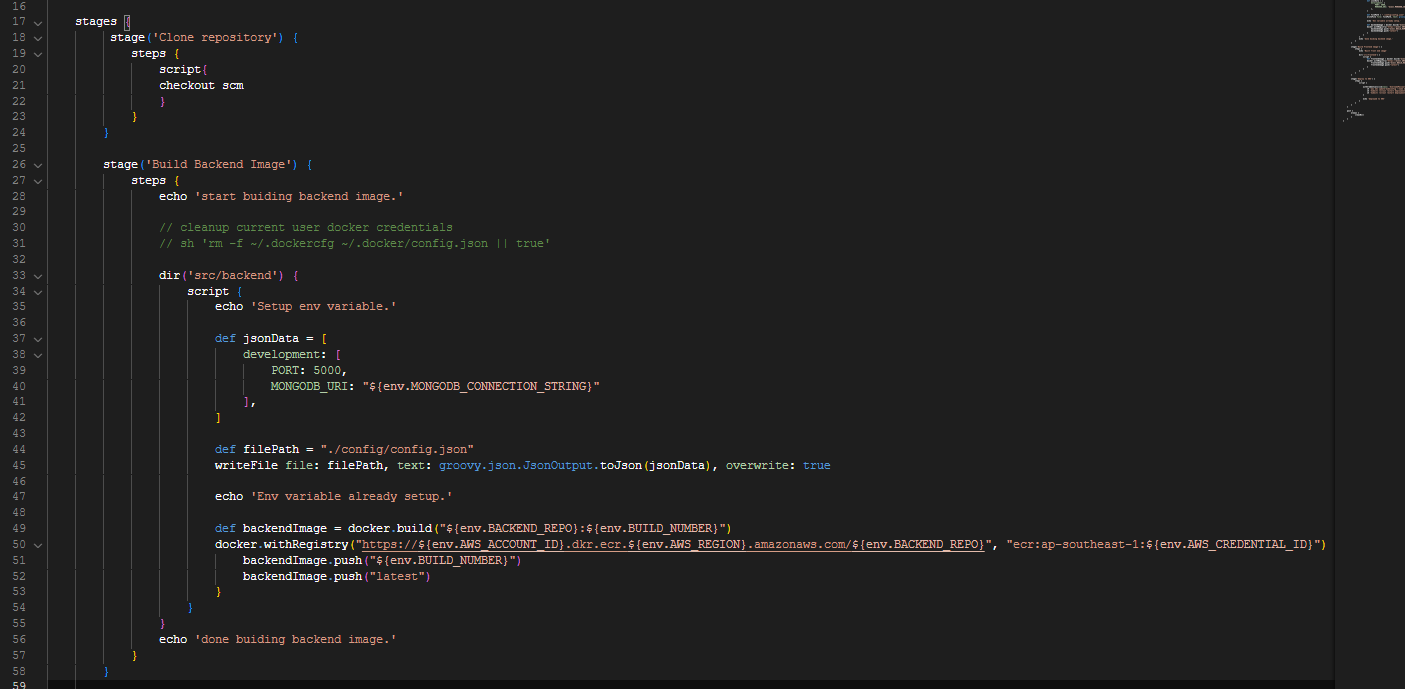
StaffCode: SD5096

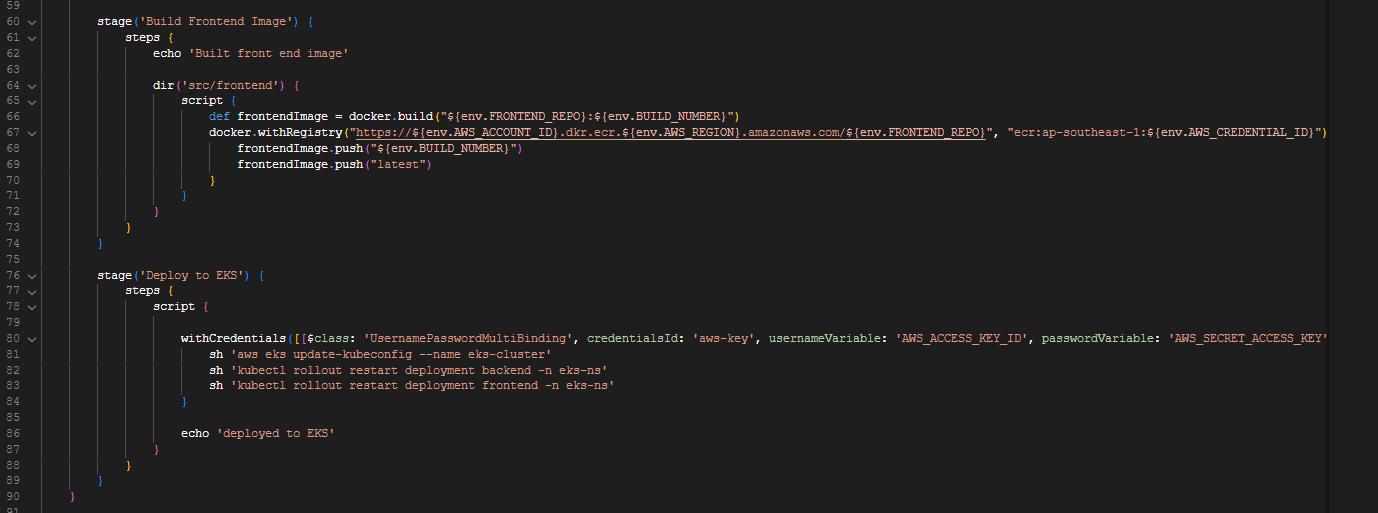
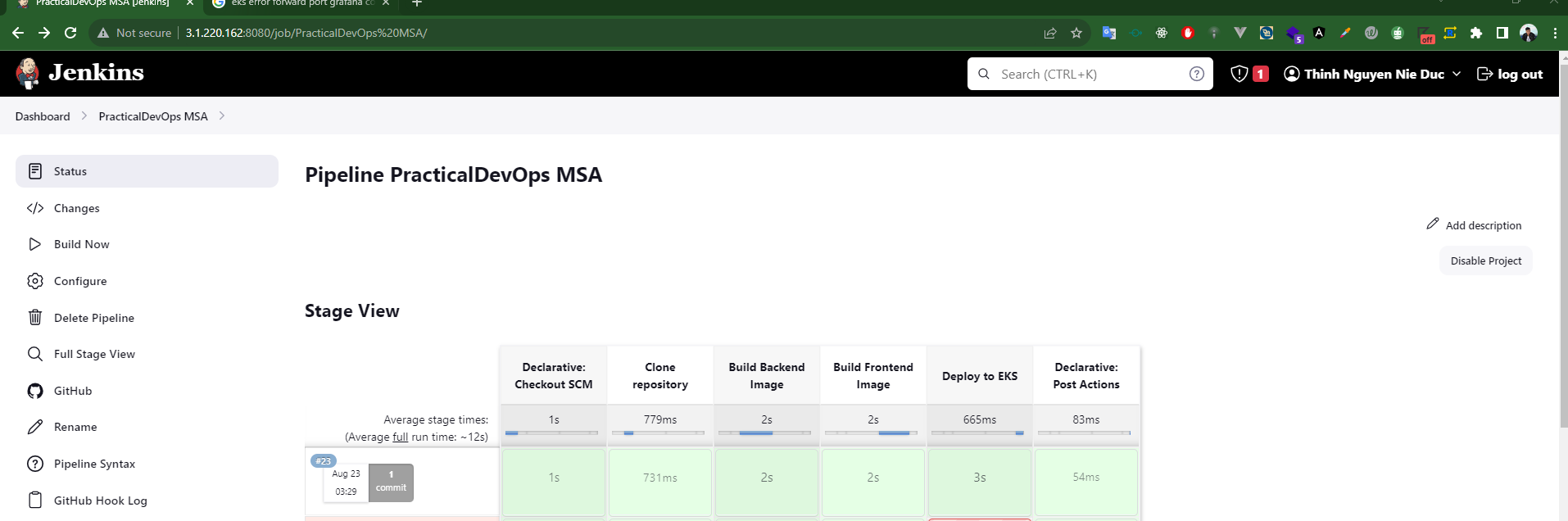
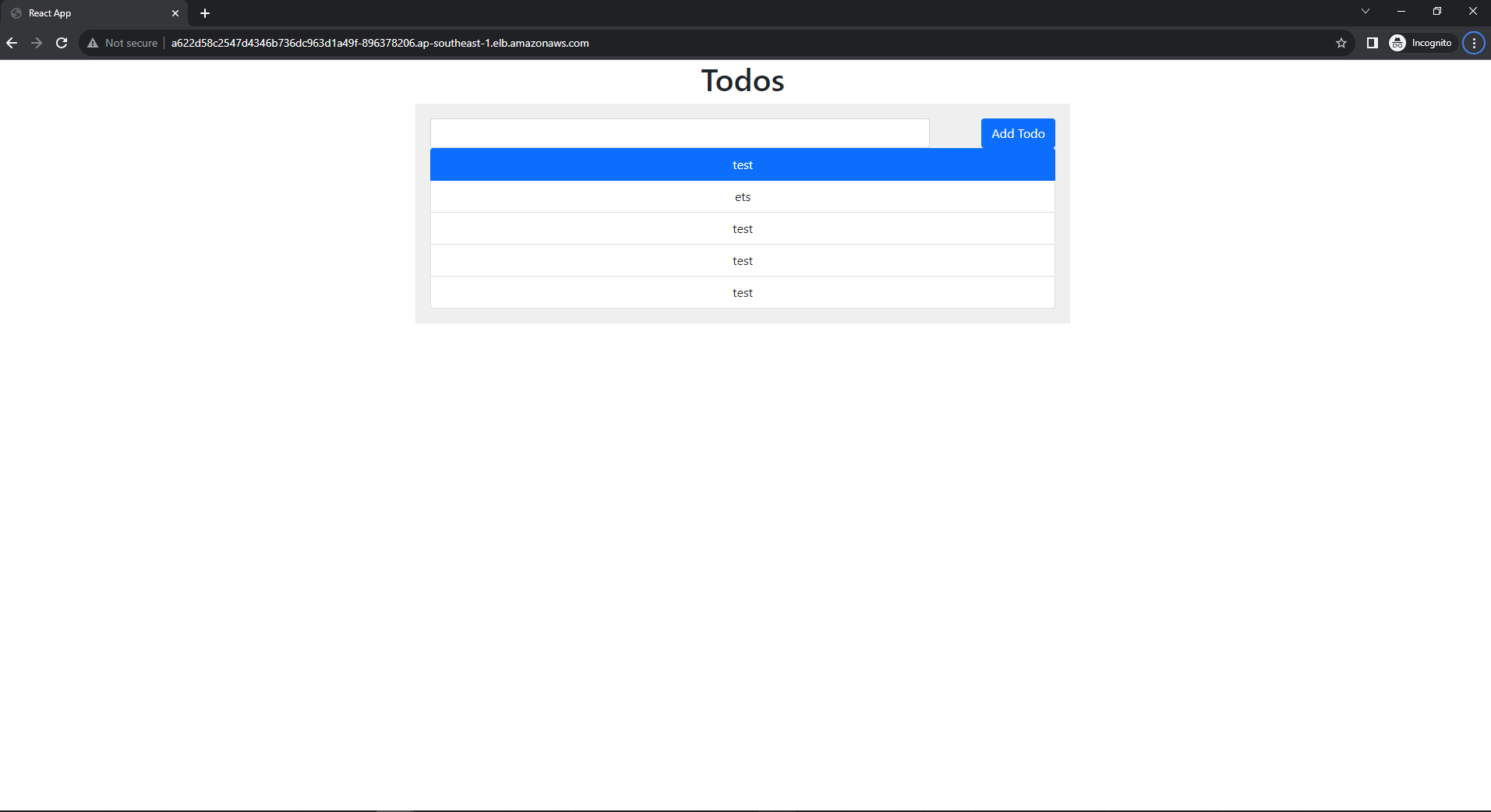
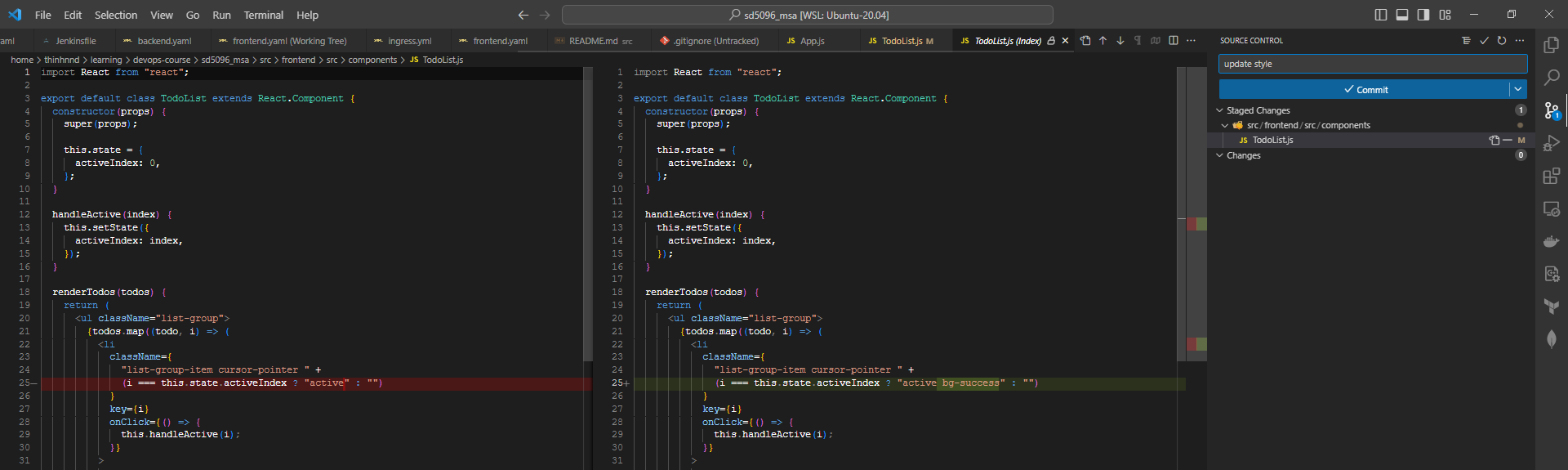
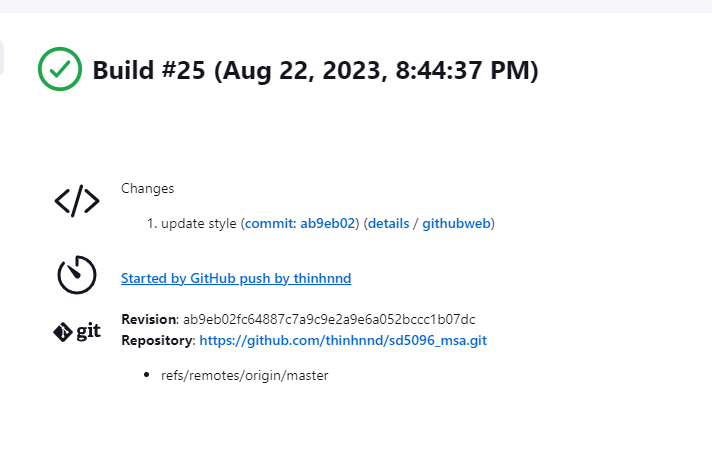
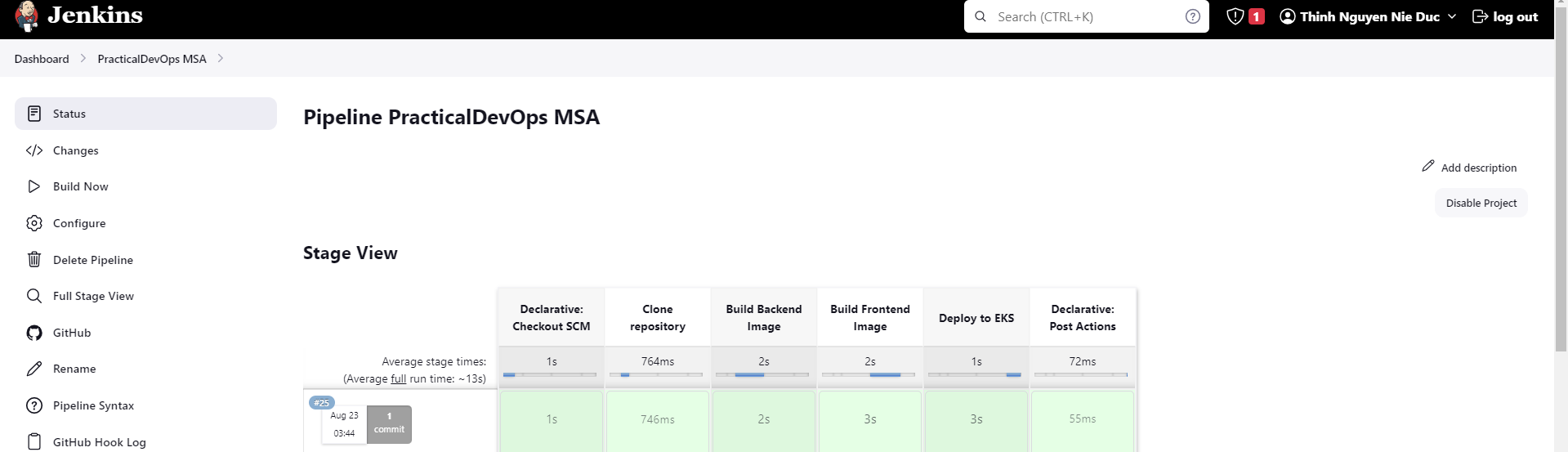
## I. Setting up CI/CD pipeline and deploying application to EKS

Source codes:  
Infra: https://github.com/thinhnnd/sd5096\_aws\_infrastructure   
MSA: <https://github.com/thinhnnd/sd5096_msa>

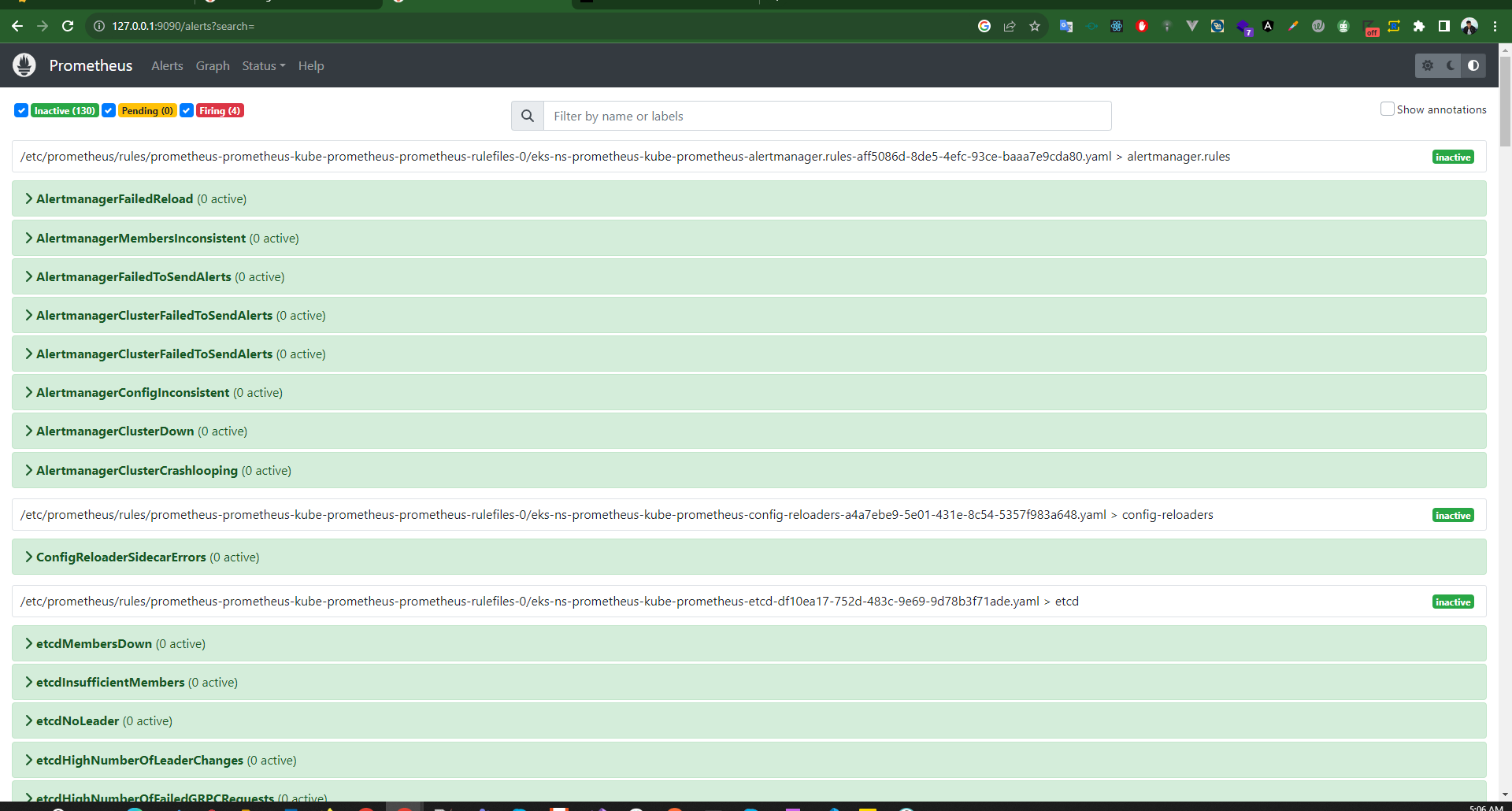
1.Provision AWS resource  
1.1 EKS cluster created from terraform  
   
  
1.2 EC2 created by using terraform  
  
   
1.3 ECR provision by terraform  


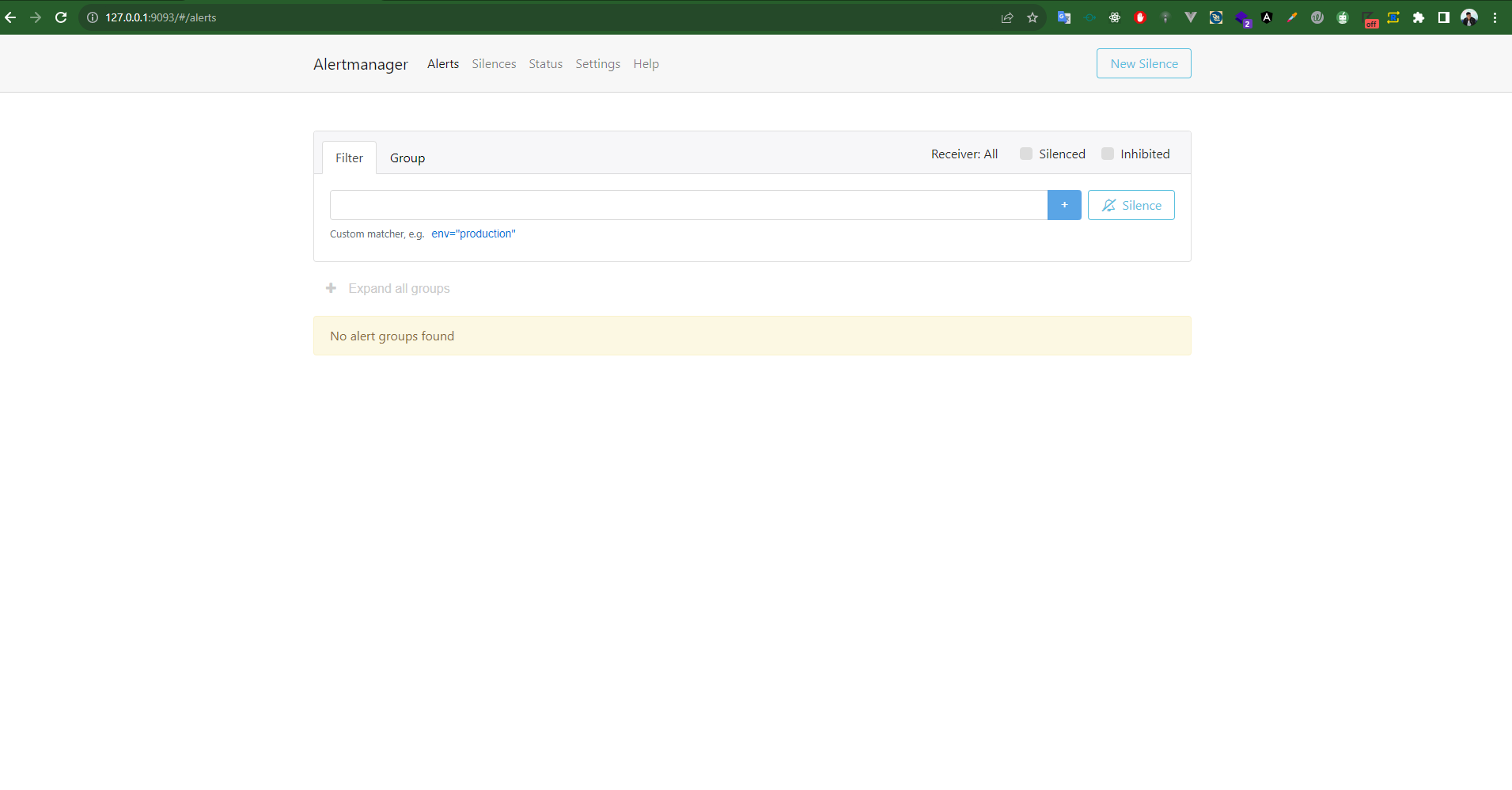


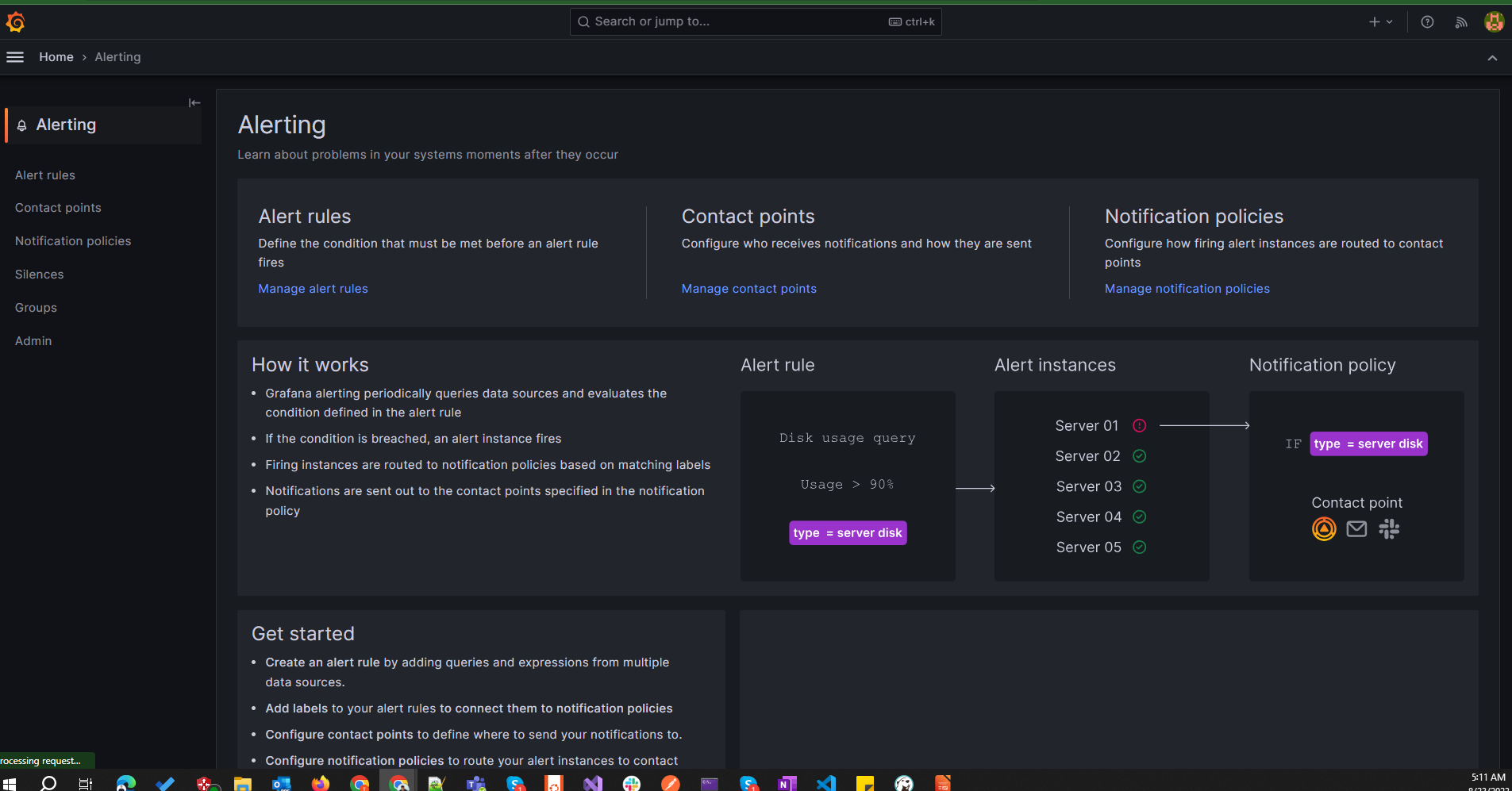
**2. Set up Jenkins for CI/CD**  
I create 4 stage: Clone Repositoy -> Build Backend Image -> Build Frontend Image -> Deploy to EKS  


  
Pipeline result:  
  
Result when deploy success fully:  
  
  
If I change a code, and push to master branch, pipeline will automaticaly run   
  
Auto run by github push  
Build success:  
  
  
App result:  


3. Monitor with Grafana  
3.1 Phometheus



3.2 Alert Manager  
  
Grafana



## II. Reuse Jenkin CI and use GitOps for CD pipeline

1.Install and login to Argo

