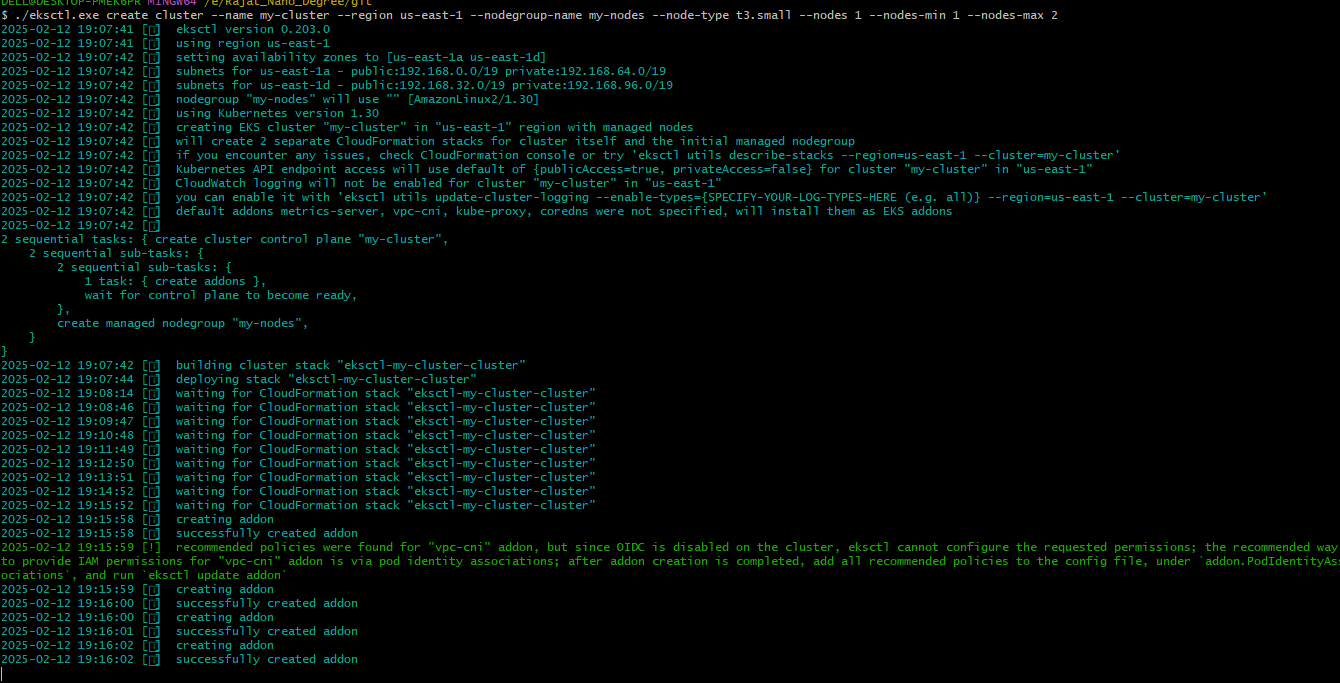
**Screenshots**

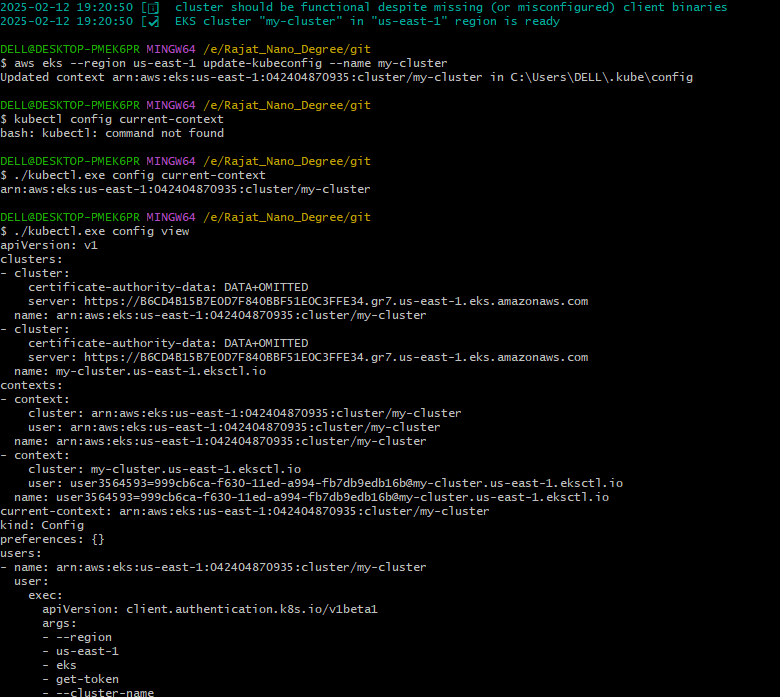
### Check IAM Permission

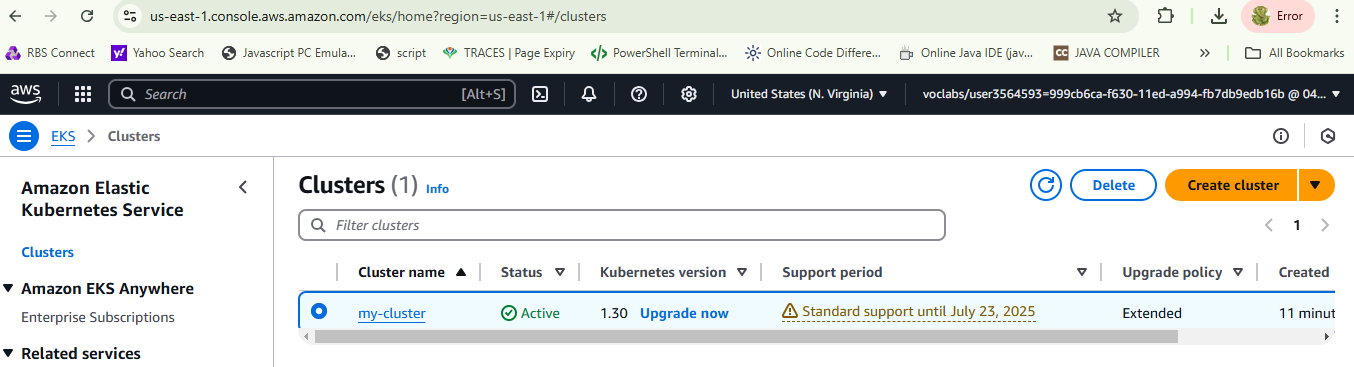
### 

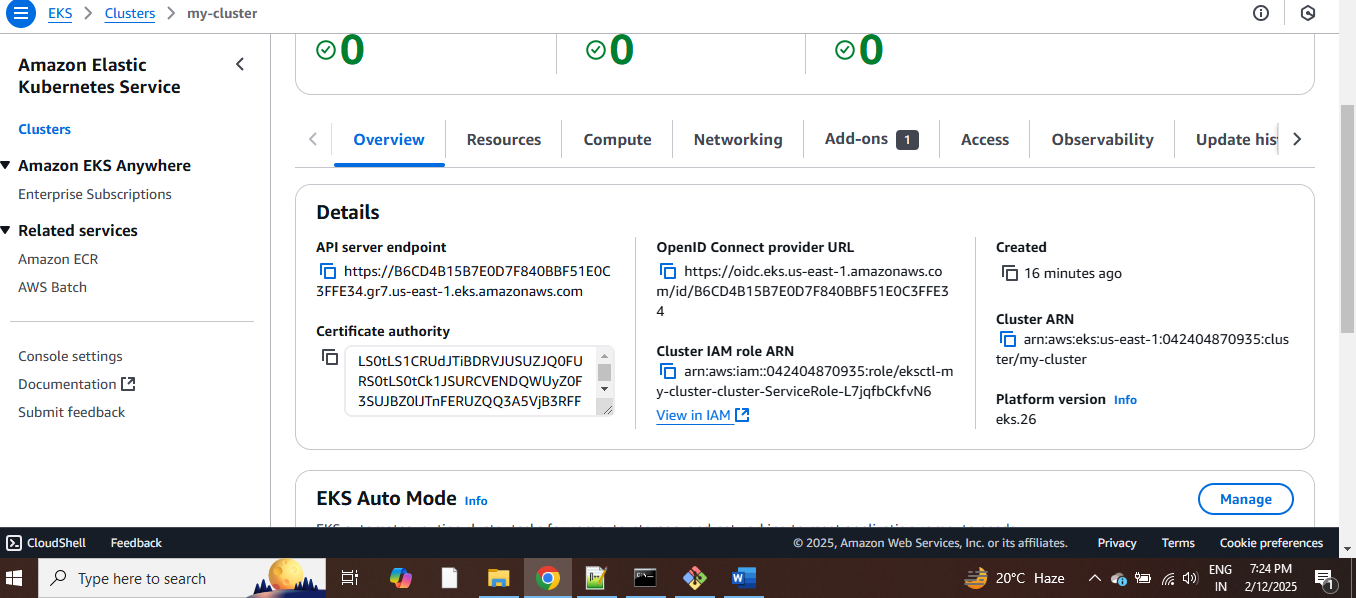
***Create an EKS Cluster***

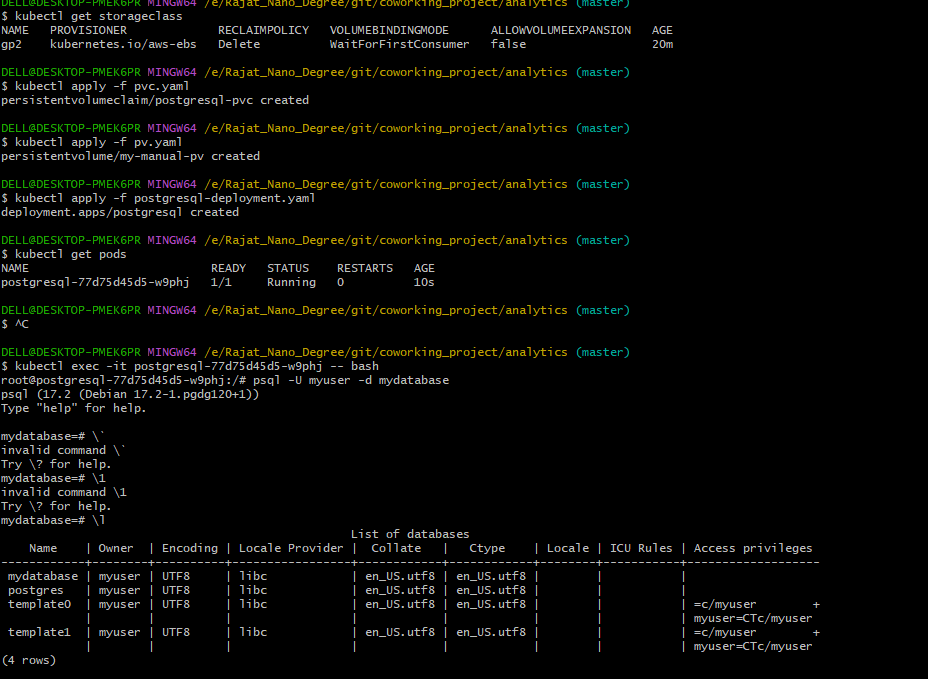
eksctl create cluster --name my-cluster --region us-east-1 --nodegroup-name my-nodes --node-type t3.small --nodes 1 --nodes-min 1 --nodes-max 2



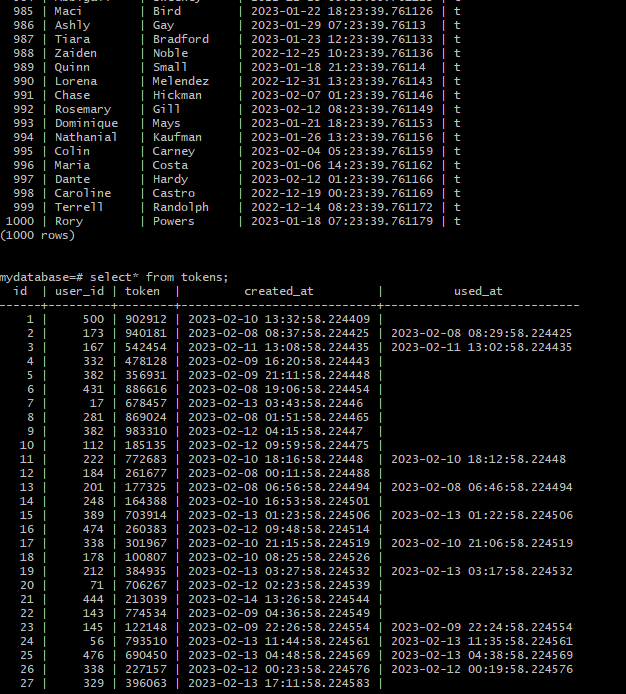


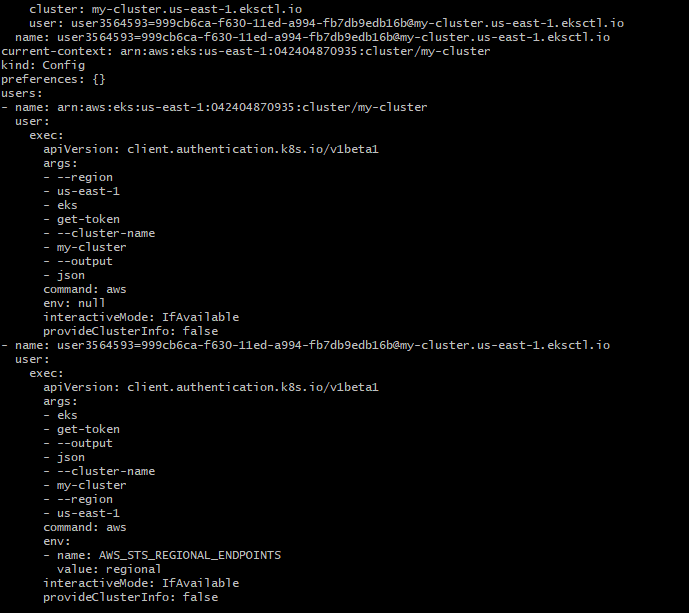






***Checking the tables***



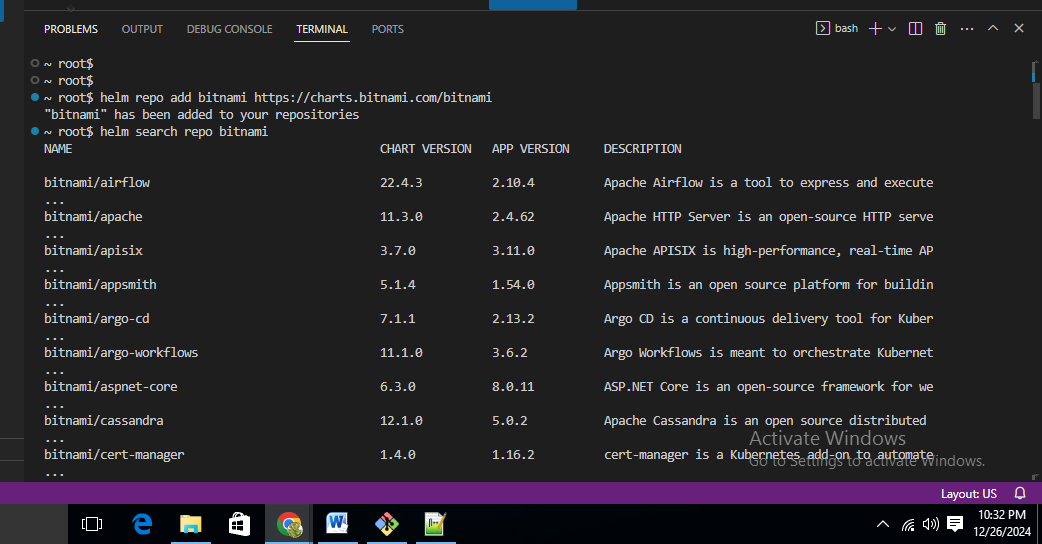


***A). Configure a Database***

**Set up a Postgres database using a Helm Chart**

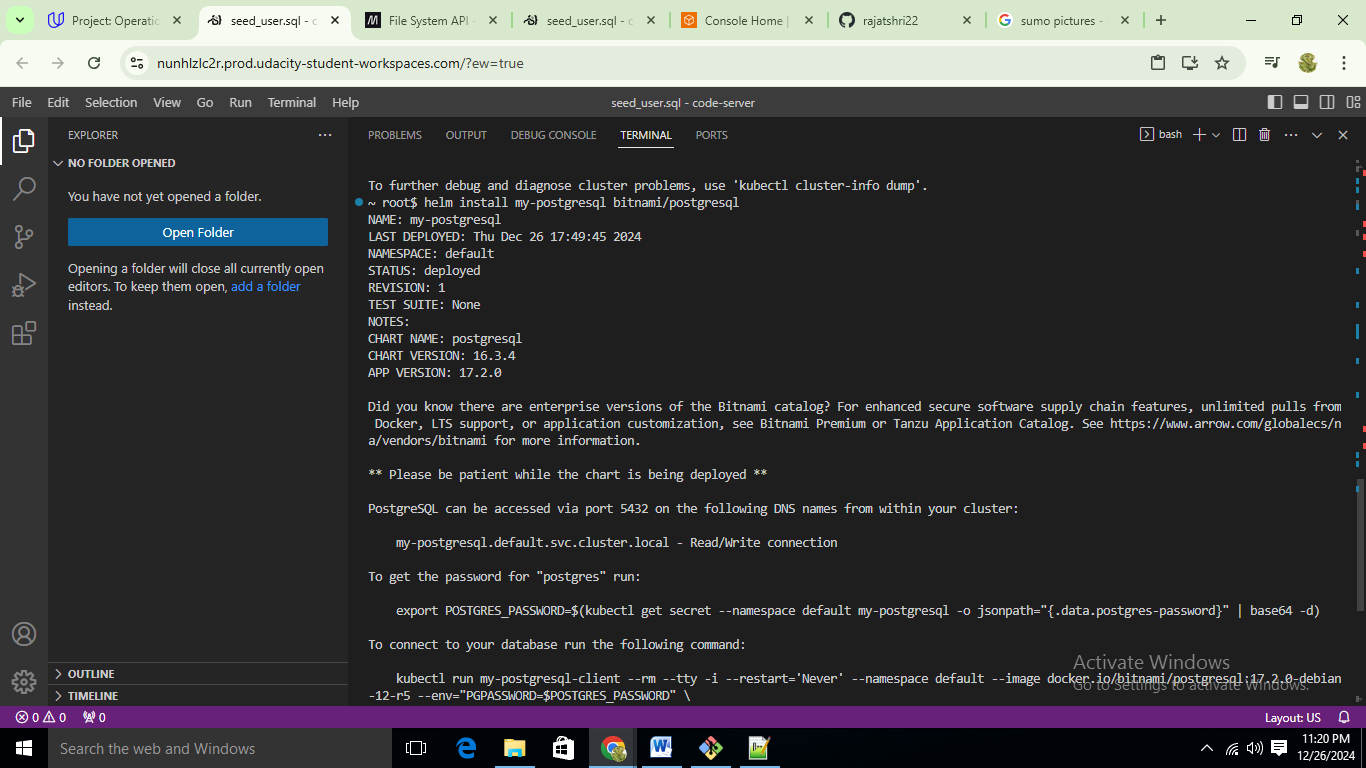
1. **Set up Bitnami Repo**

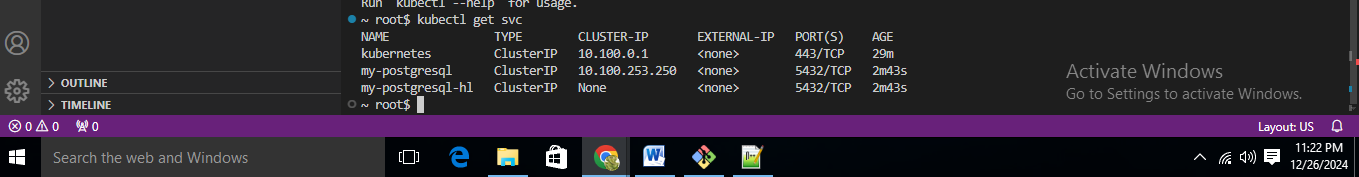
helm repo add bitnami https://charts.bitnami.com/bitnami



1. **Install PostgreSQL Helm Chart**

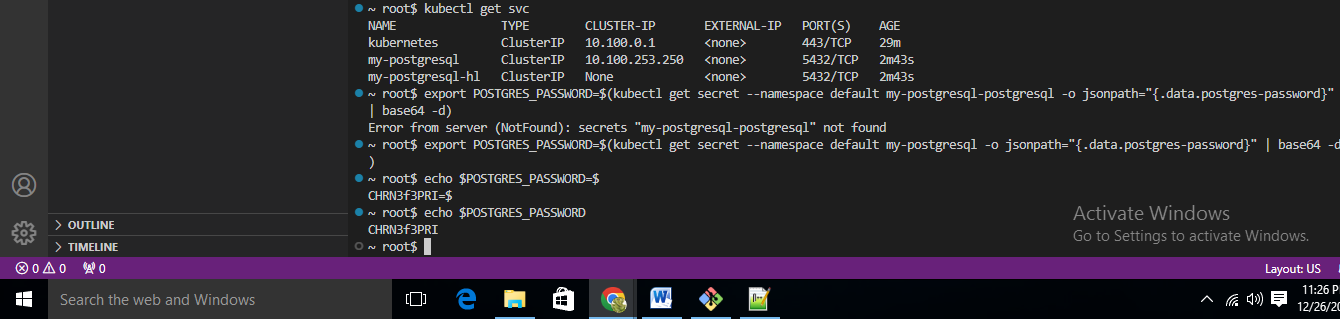
helm install my-postgresql bitnami/postgresql



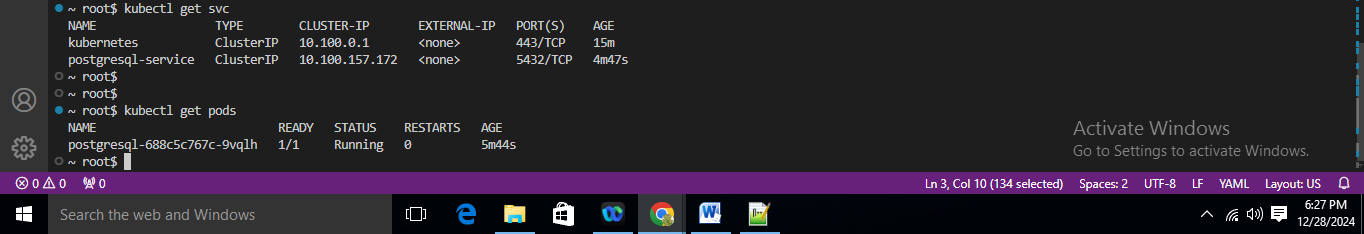


**Password Retrieval**

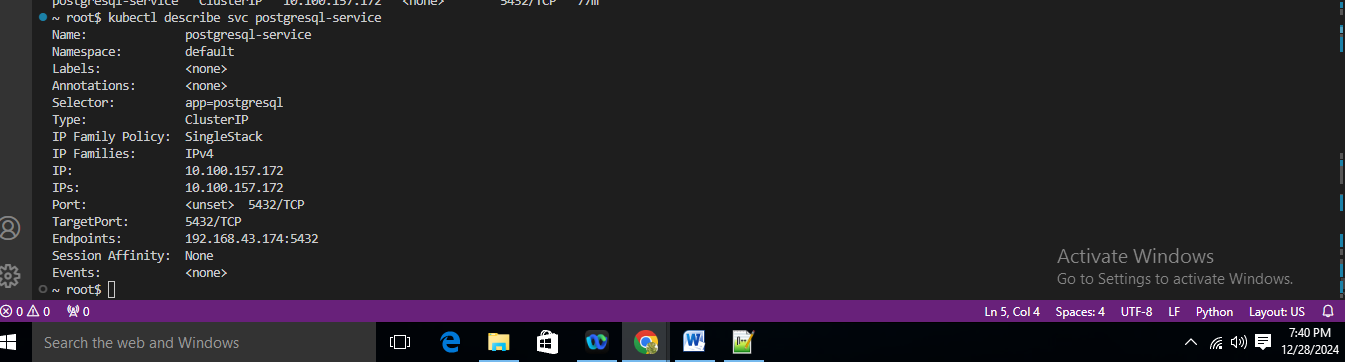
export POSTGRES\_PASSWORD=$(kubectl get secret --namespace default my-postgresql -o jsonpath="{.data.postgres-password}" | base64 --decode)



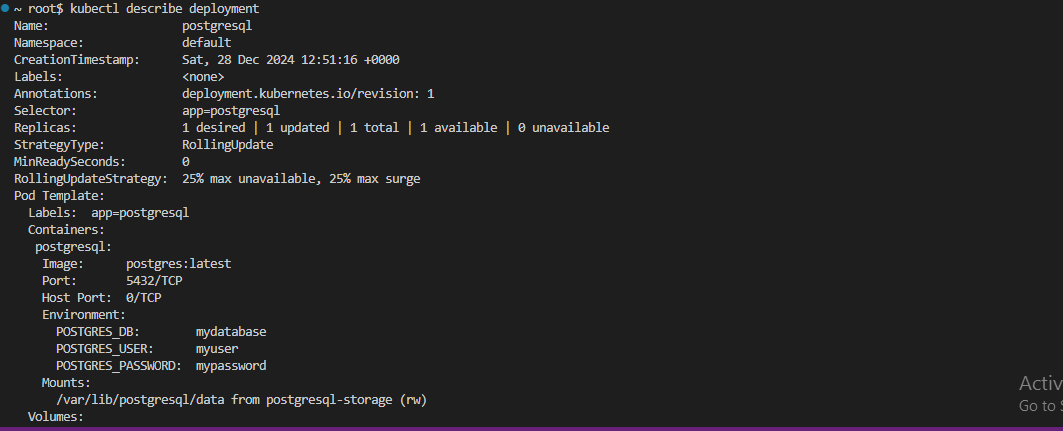
**Get svc/pods output**

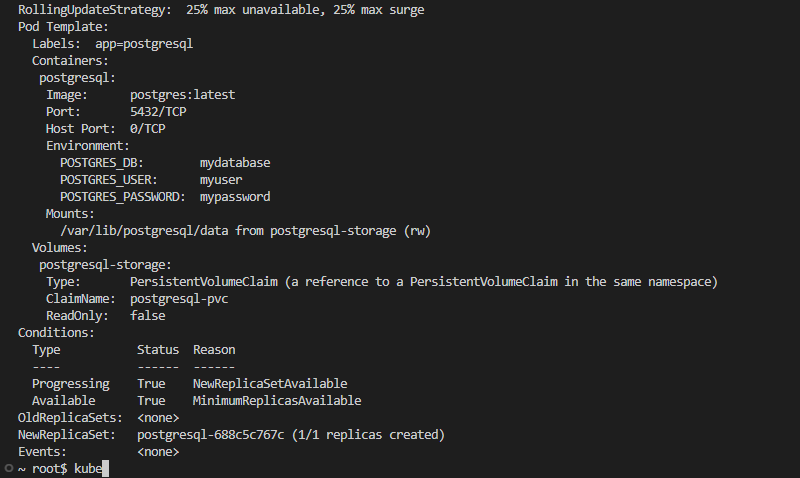


**Screenshot of `kubectl describe svc <DATABASE\_SERVICE\_NAME>`**



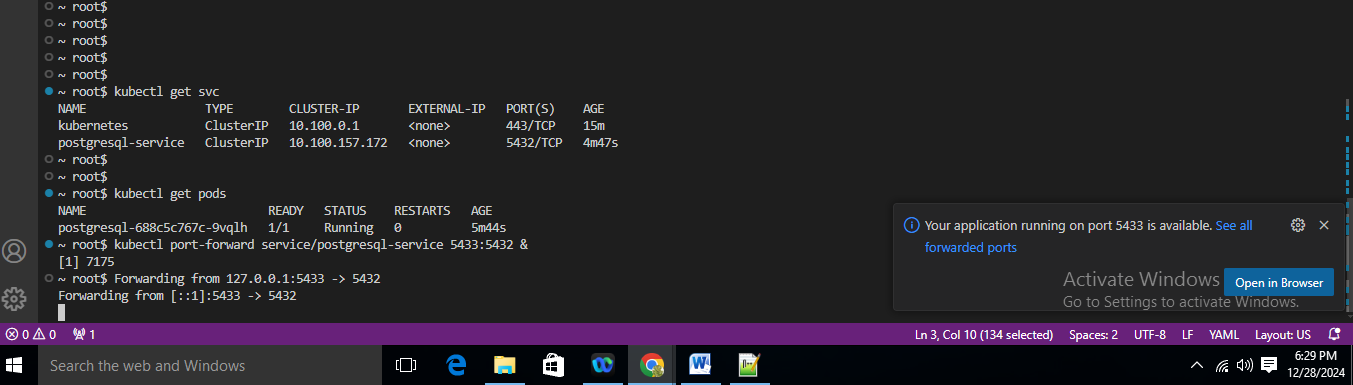
**Screenshot of `kubectl describe deployment <SERVICE\_NAME>`**

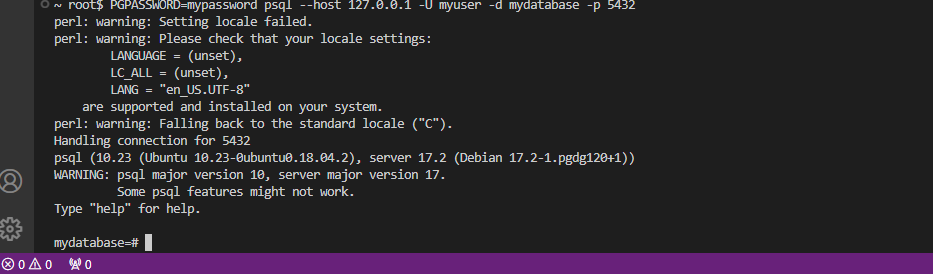




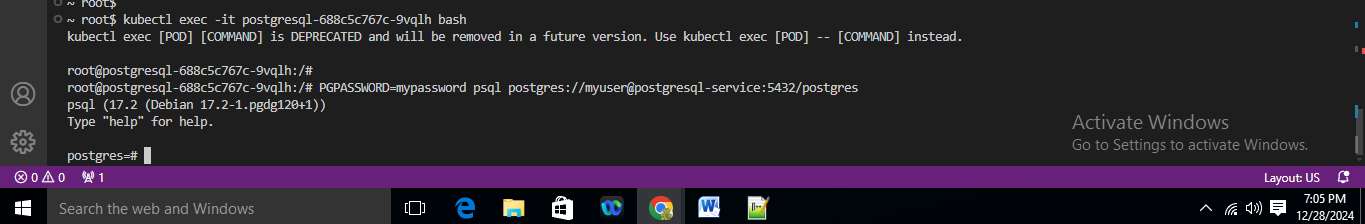
1. **Test Database Connection**

**Connecting Via Port Forwarding**

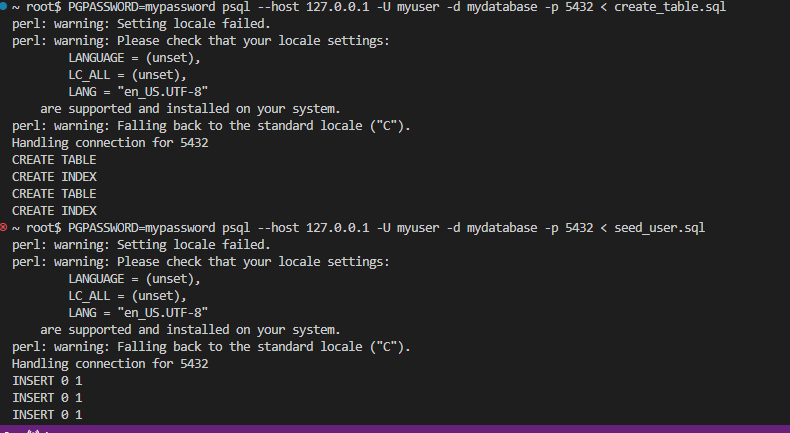




**Connecting Via a Pod**



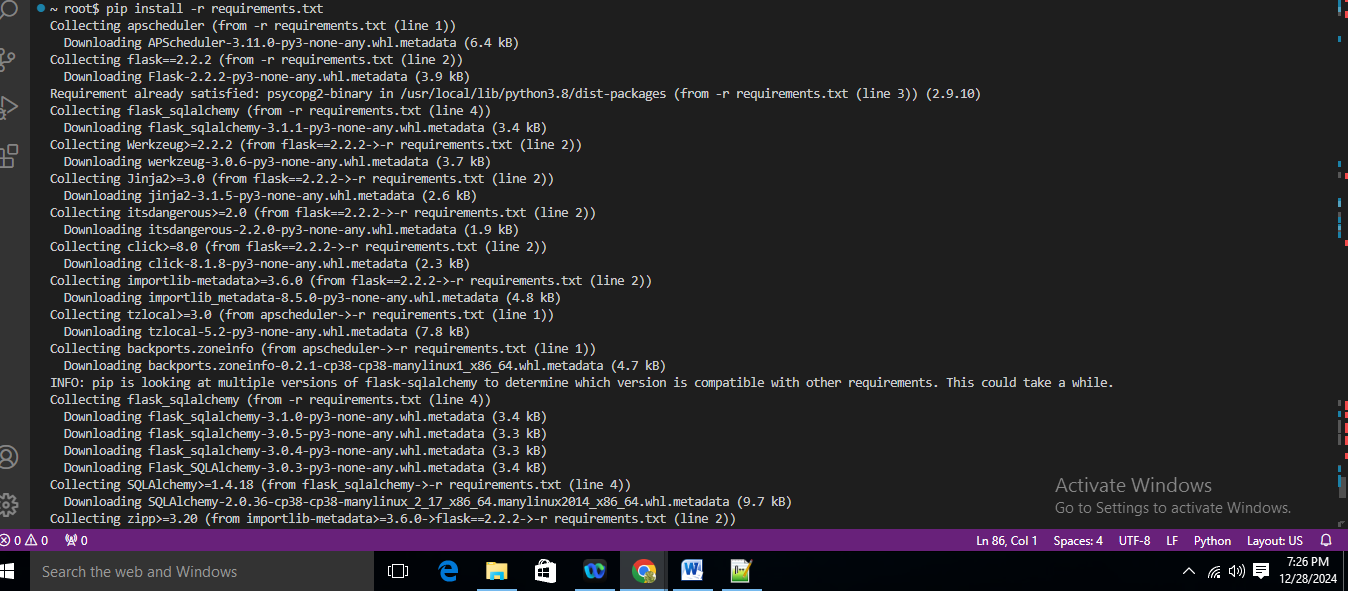
1. **Run Seed Files**

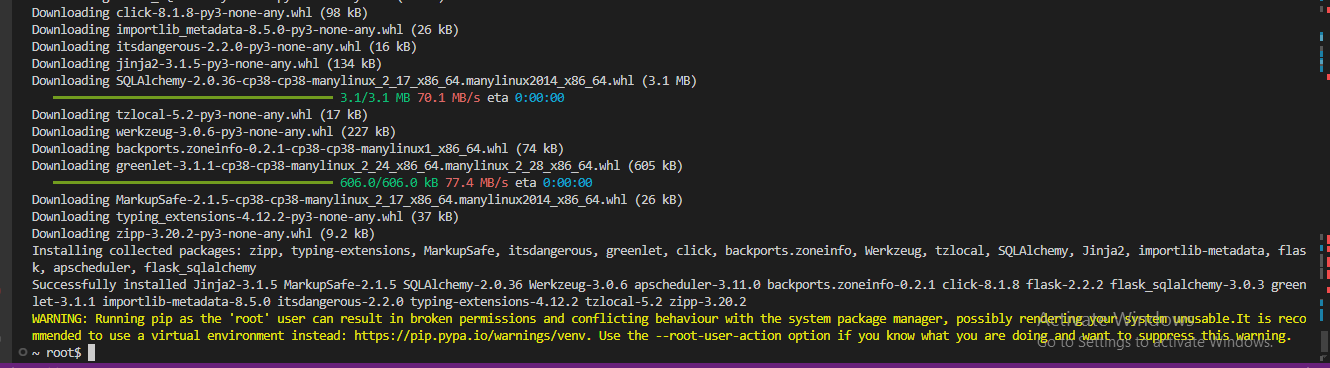




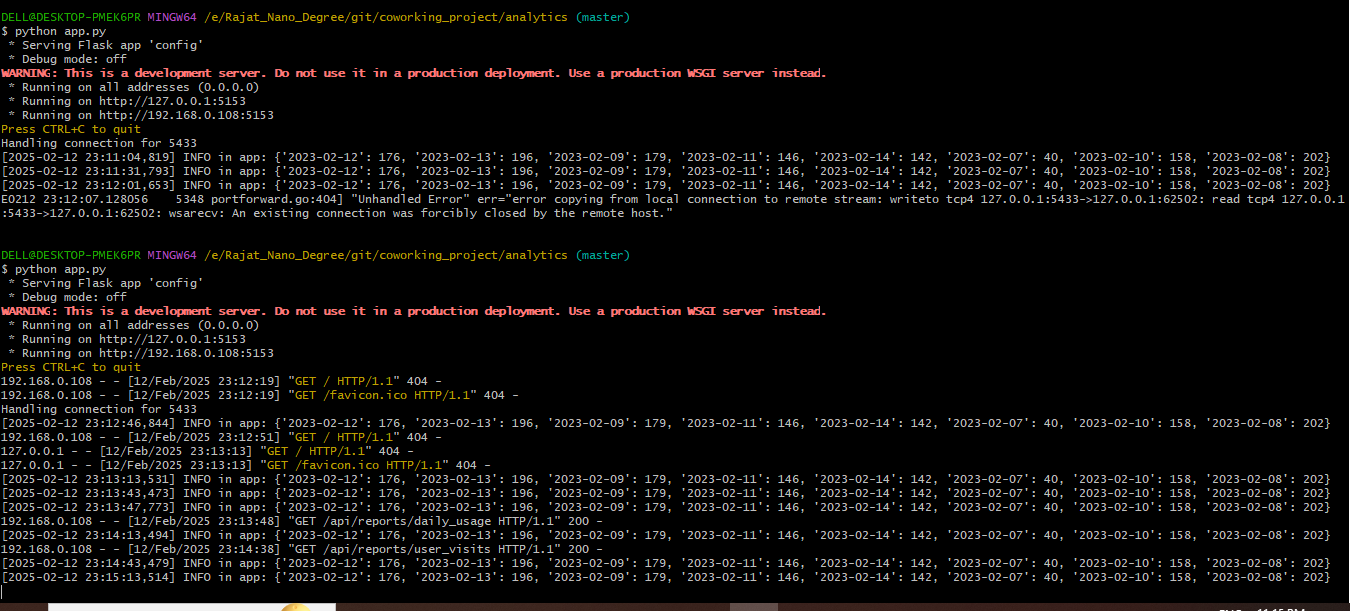
**B) Running the Analytics Application Locally**

1. **Install dependencies**

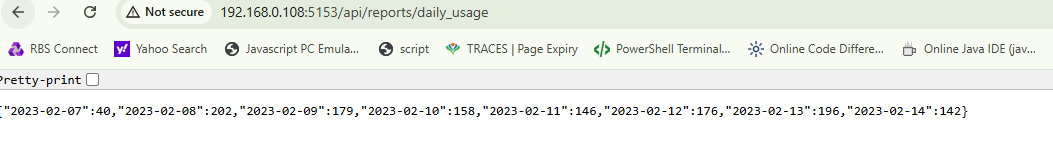


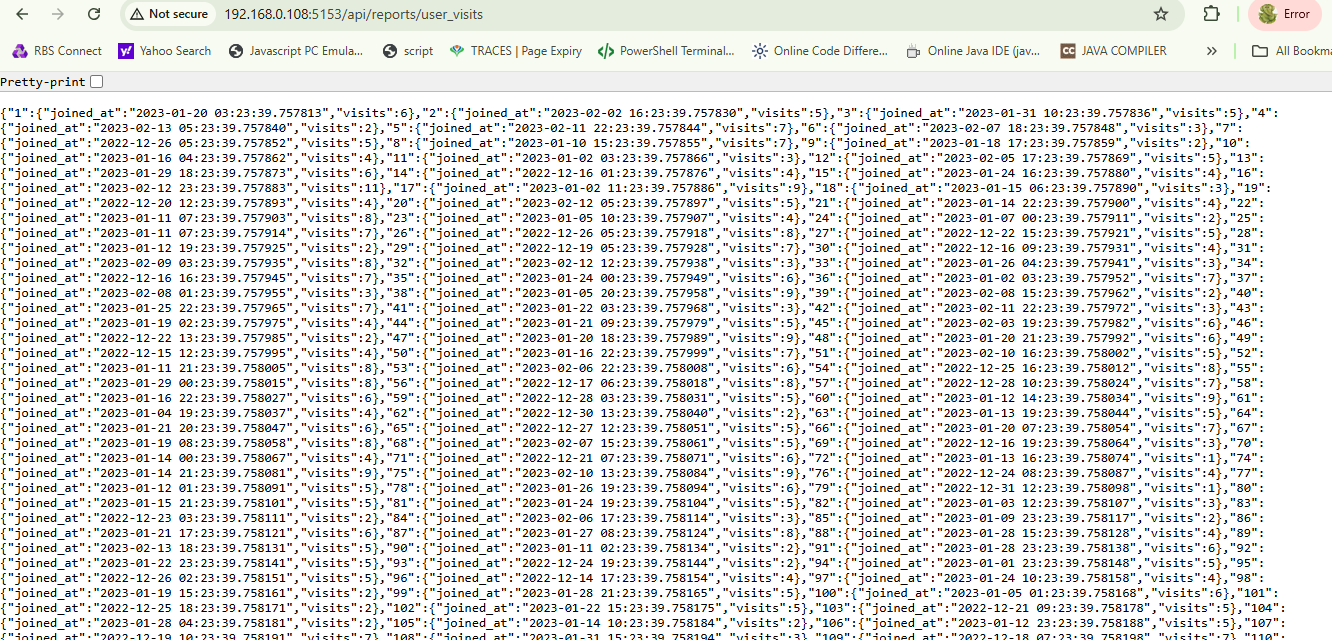


1. **Run the application (see below regarding environment variables)**



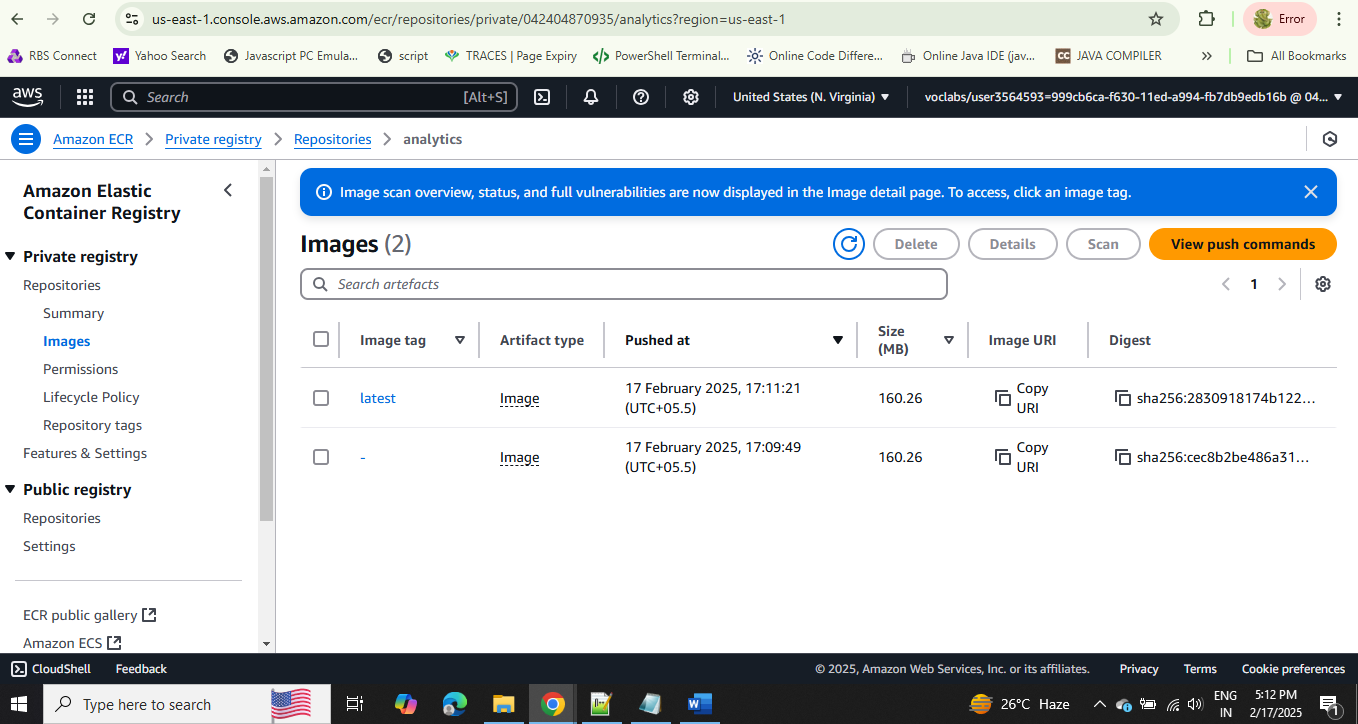
1. **Verifying The Application**

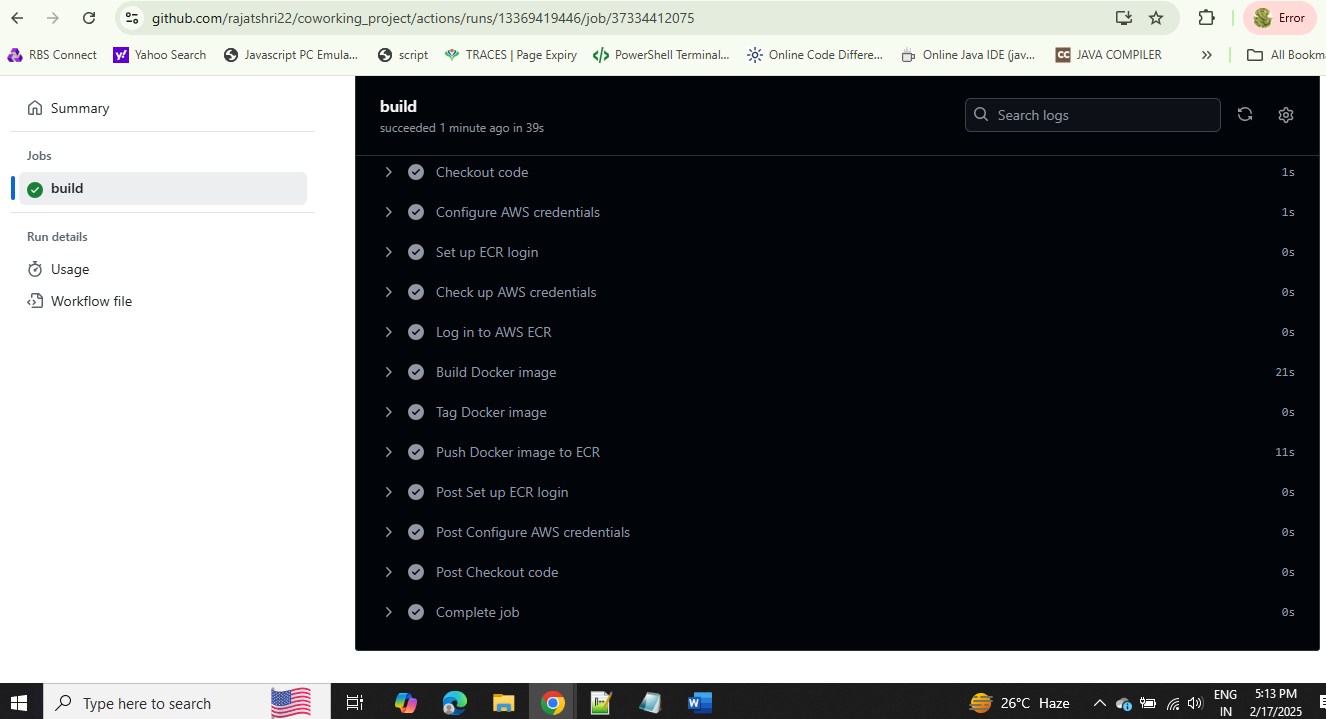


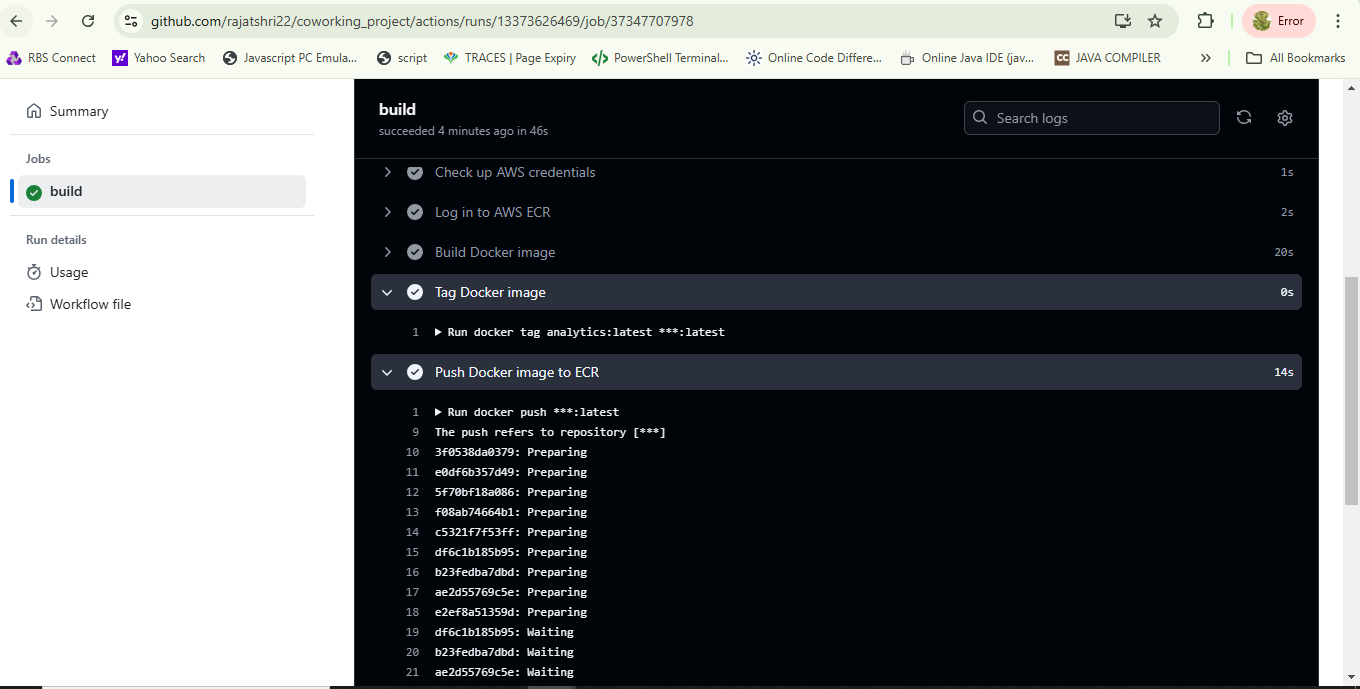


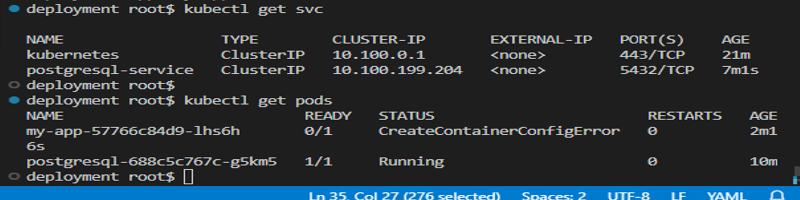
**Deploy the Analytics Application**

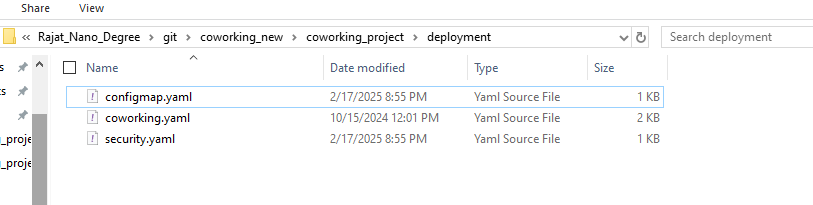
**Set up Continuous Integration with CodeBuild**

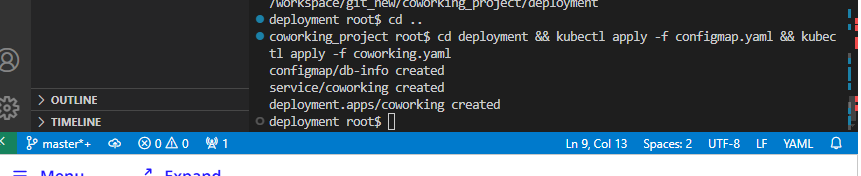




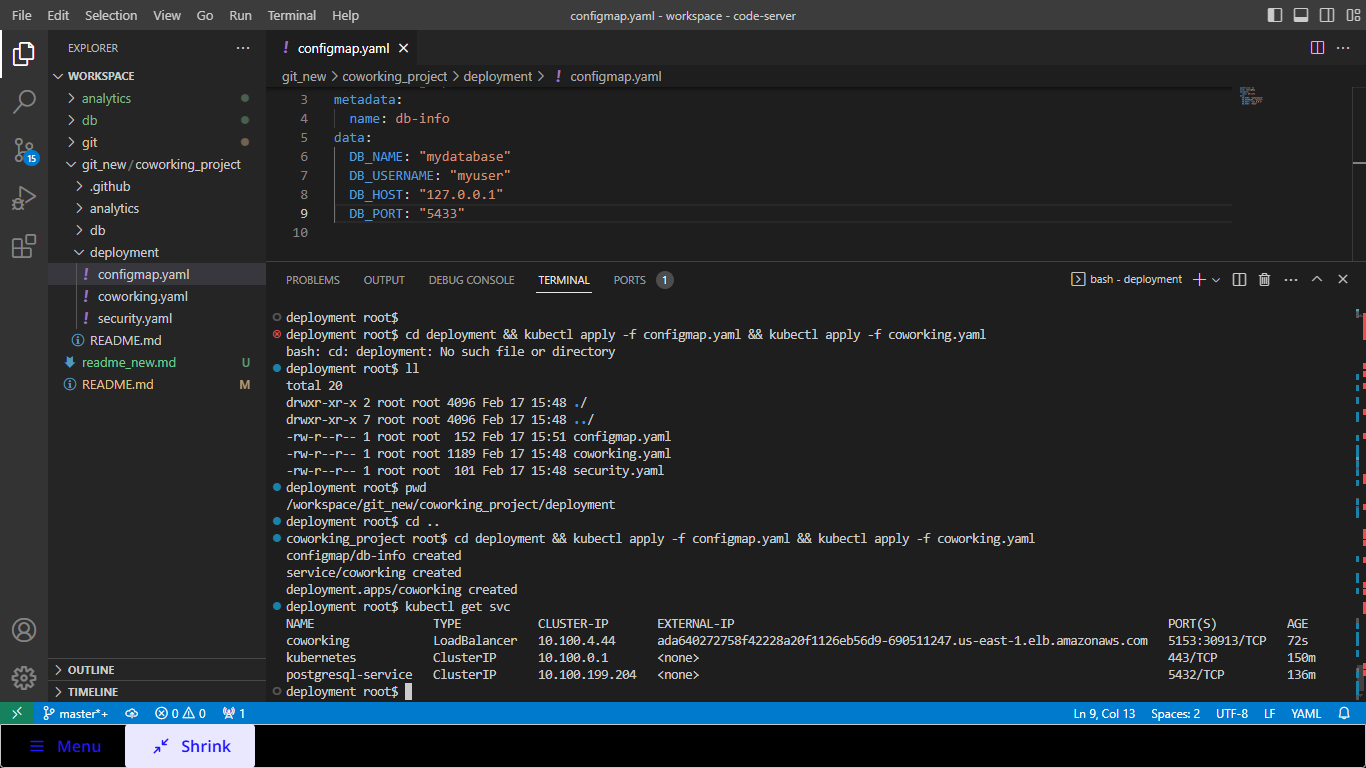








**Verify the Deployment**



**Setup CloudWatch Logging**

