Project is about Automating Infrastructure using Terraform

The objective is we need to create ec2 instance using terraform and connect to the instance. Finally we need to install jenkins, Java and Python.

According to that

I created key pair from the Aws.

Installed terraform in the CLI

Using terraform script an ec2 instance is created

Post creation of ec2 and connected to that instance.

After connecting to instance, now installed jenkins, java and python.

Project title is create a redis image and push it to docker hub

I created a docker file with set of instructions.

{Instructions like I took redis image as a base image and exposed it to 6379 port}

By running docker build command the redis image is created.

After doing tagging,by logged into the docker hub through cli and image pushed to docker hub.

After that pod is created with a container in it using the redis image.

kUBERNETES

**Project title is** Backing up the Etcd Cluster Data

In this project First I created cluster with one master node and two worker nodes

After that I joined the two worker nodes using kubeadm join command

To back up the etcd data I have installed etcd client and Exported the advertise-client-url to advertise\_url and saved that backup of etcd in etcd\_backup file

After that created a namespace called cep-project2 with a network policy that allows all the Pods in the same namespace to access one another.

At last for user4 should have only view access to cep-project2 fot that generated a certificate and private key in the node and created a role and role binding to user4