https://kops.sigs.k8s.io/getting\_started/aws/

https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/

sudo su -

apt update -y

ll

apt install docker.io

y

systemctl start docker

systemctl status docker

curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"

ll

chmod +x kubectl

ll

mv kubectl /usr/local/bin/kubectl

kubectl version --client

**NOW INSTALL THE KOPS:**

curl -Lo kops https://github.com/kubernetes/kops/releases/download/$(curl -s https://api.github.com/repos/kubernetes/kops/releases/latest | grep tag\_name | cut -d '"' -f 4)/kops-linux-amd64

ll

chmod +x kops

mv kops /usr/local/bin/kops

ll

vi .bashrc

... export PATH=$PATH:/usr/local/bin

:wq!

source .bashrc

aws configure

snap info aws-cli

snap install aws-cli --channel=v1/stable --classic

aws configure

AWS Access Key ID [None]: AKIA3LET5ZMNQWAUZMGS

AWS Secret Access Key [None]: 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

Default region name [None]: us-east-1

Default output format [None]: table

**CREATE THE BUCKET:**

aws s3api create-bucket \

--bucket vinu2024.k8s.local \

--region us-east-1

ENABLE THE VERSIONING:

aws s3api put-bucket-versioning --bucket vinu2024.k8s.local --versioning-configuration Status=Enabled

EXPORT:

export NAME=vinod.example.com

export KOPS\_STATE\_STORE=s3://vinu2024.k8s.local

**CREATE THE CLUSTER:**

kops create cluster \

--name=${NAME} \

--cloud=aws \

--zones=us-west-2a \

--discovery-store=s3://vinu2024.k8s.local

kops create cluster --name vinod.example.com --state=s3://vinu.k8s.local --zones us-east-1a --master-size t2.micro --node-size t2.micro

aws s3 mb s3://vinu-k8s-local --region us-east-1

# Create the Kubernetes cluster with the updated state and configuration

kops create cluster \

--name=vinod.example.com \

--state=s3://vinu-k8s-local \

--zones=us-east-1a \

--control-plane-size=t2.micro \

--node-size=t2.micro

kops get cluster --name vinod.example.com --state=s3://vinu-k8s-local

kops update cluster --name vinod.example.com --state=s3://vinu-k8s-local --control-plane-size t2.micro --yes

vi pod.yml

apiVersion: v1

kind: Pod

metadata:

name: kops-pod

spec:

containers:

- name: vinu12

image: nginx

ports:

- containerPort: 80

- name: vinod12

image: ubuntu

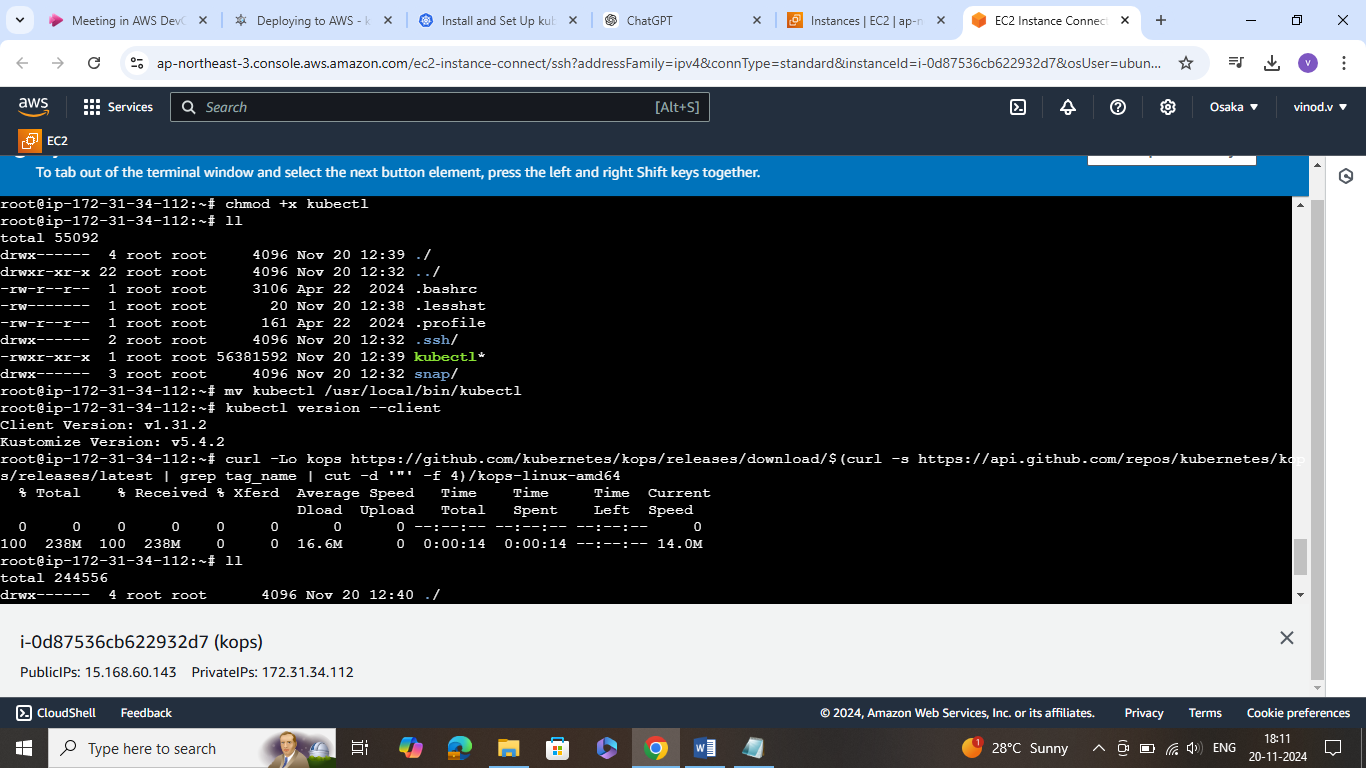
command: ["sh", "-c", "while true; do echo 'welcome to skywaves'; sleep 10; done"]

:wq!

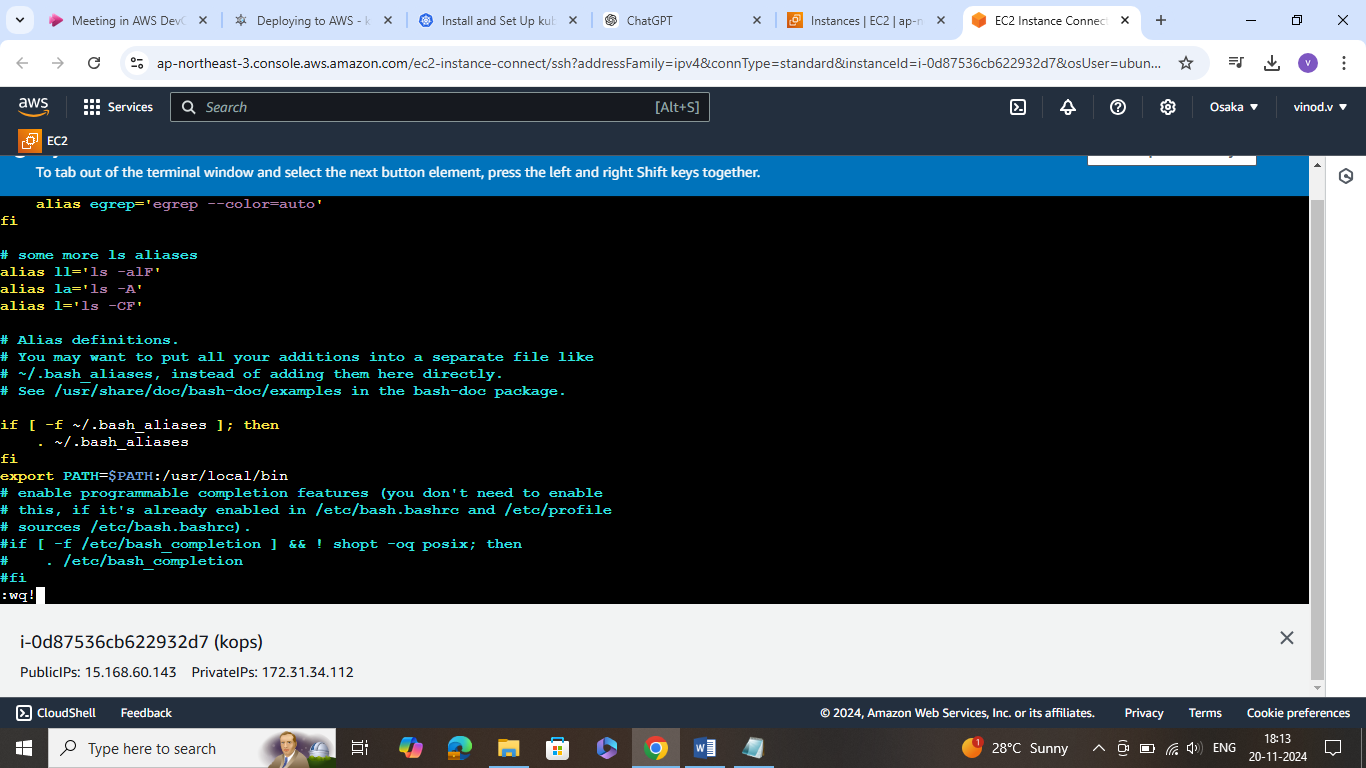
kubectl apply -f pod.yml

kubectl get pod

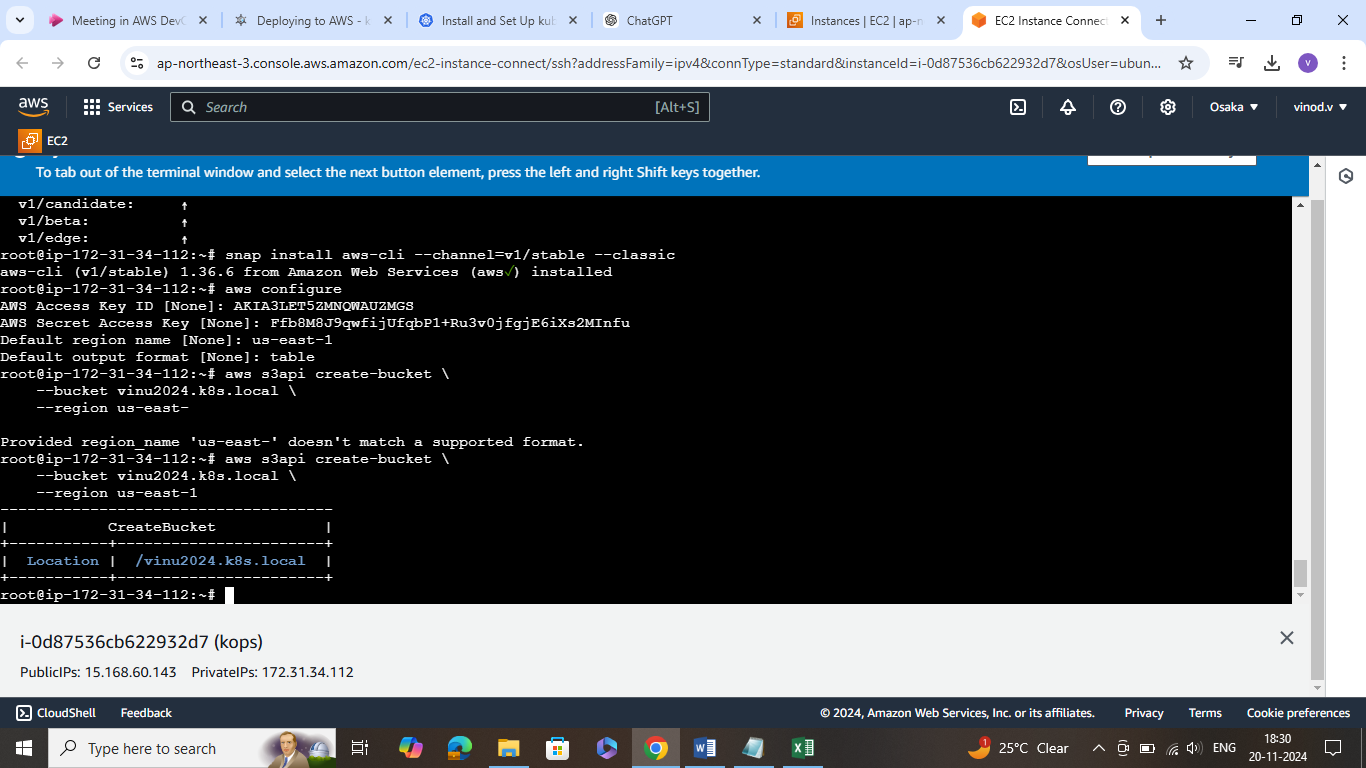
* Install the kops

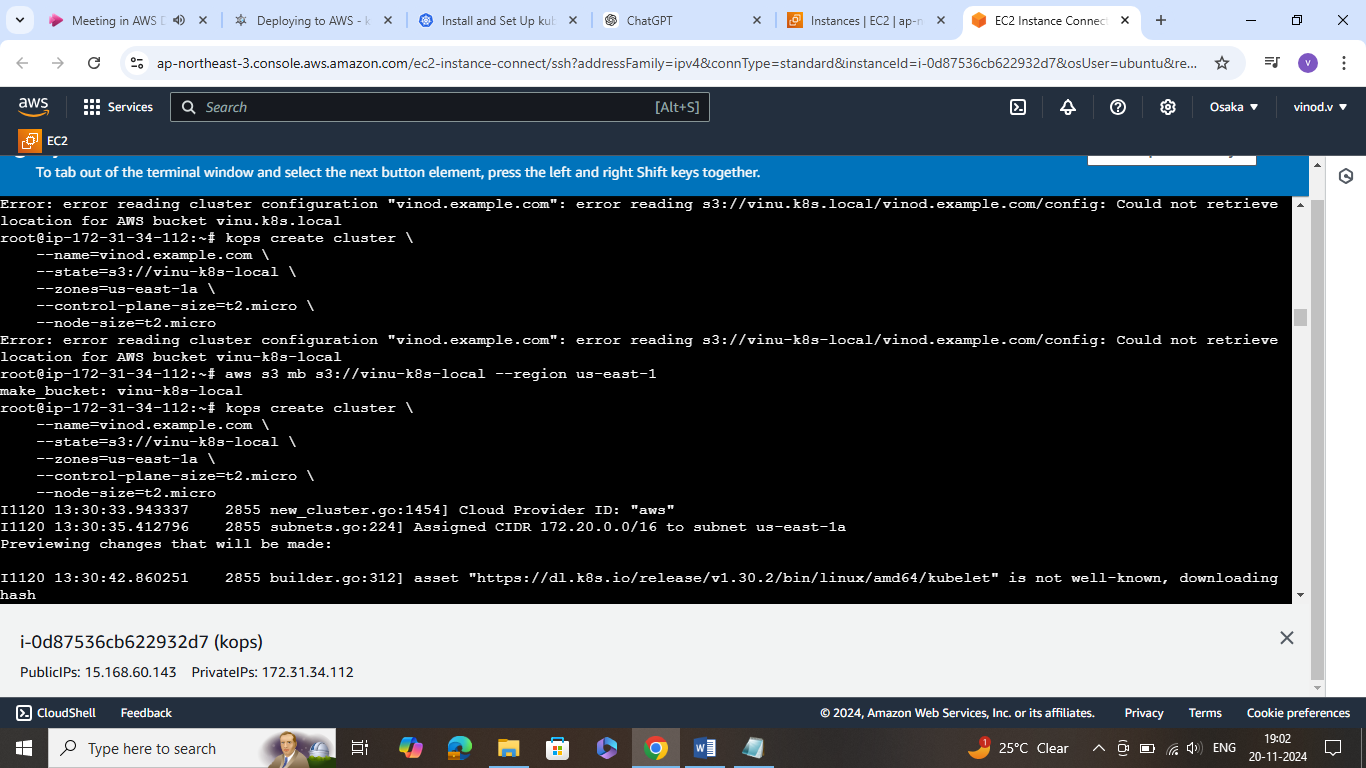


* Give the path here

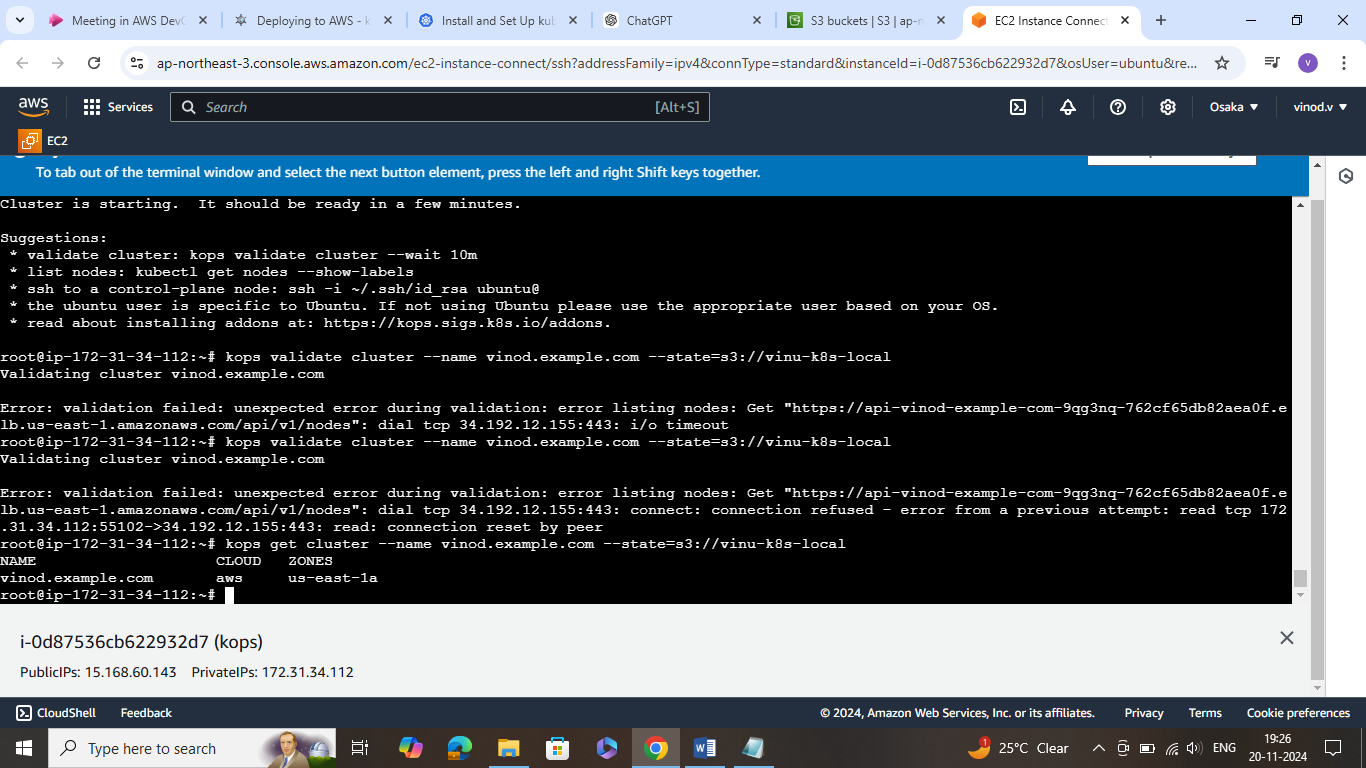


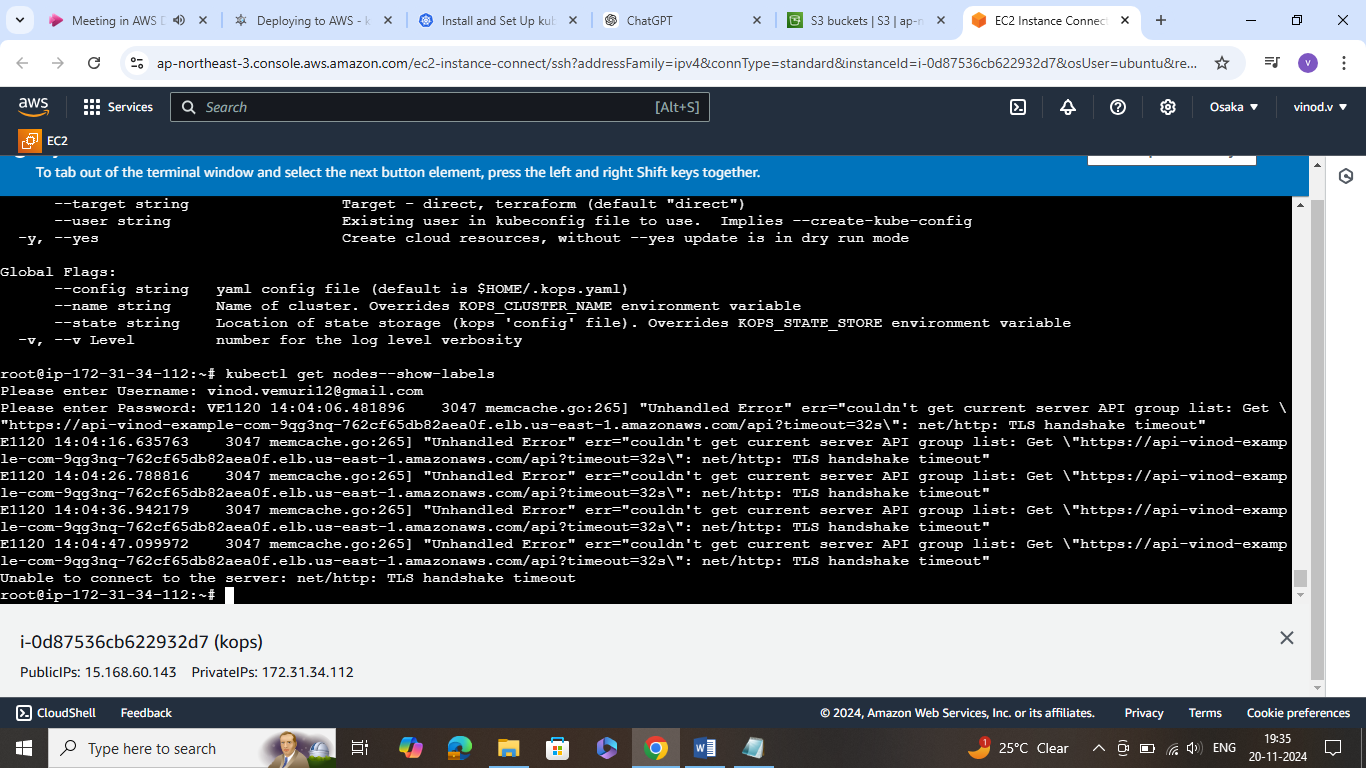
* Create the bucket



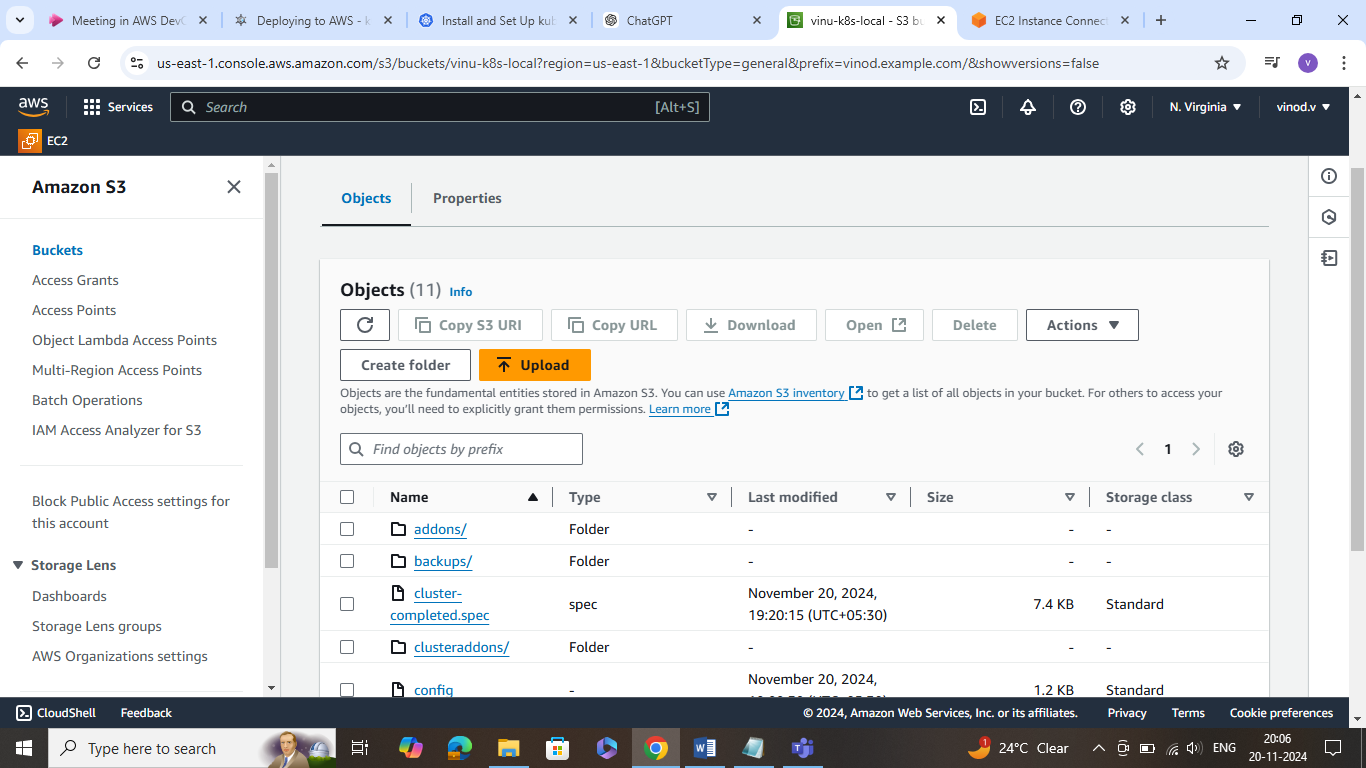


* Setup the cluster

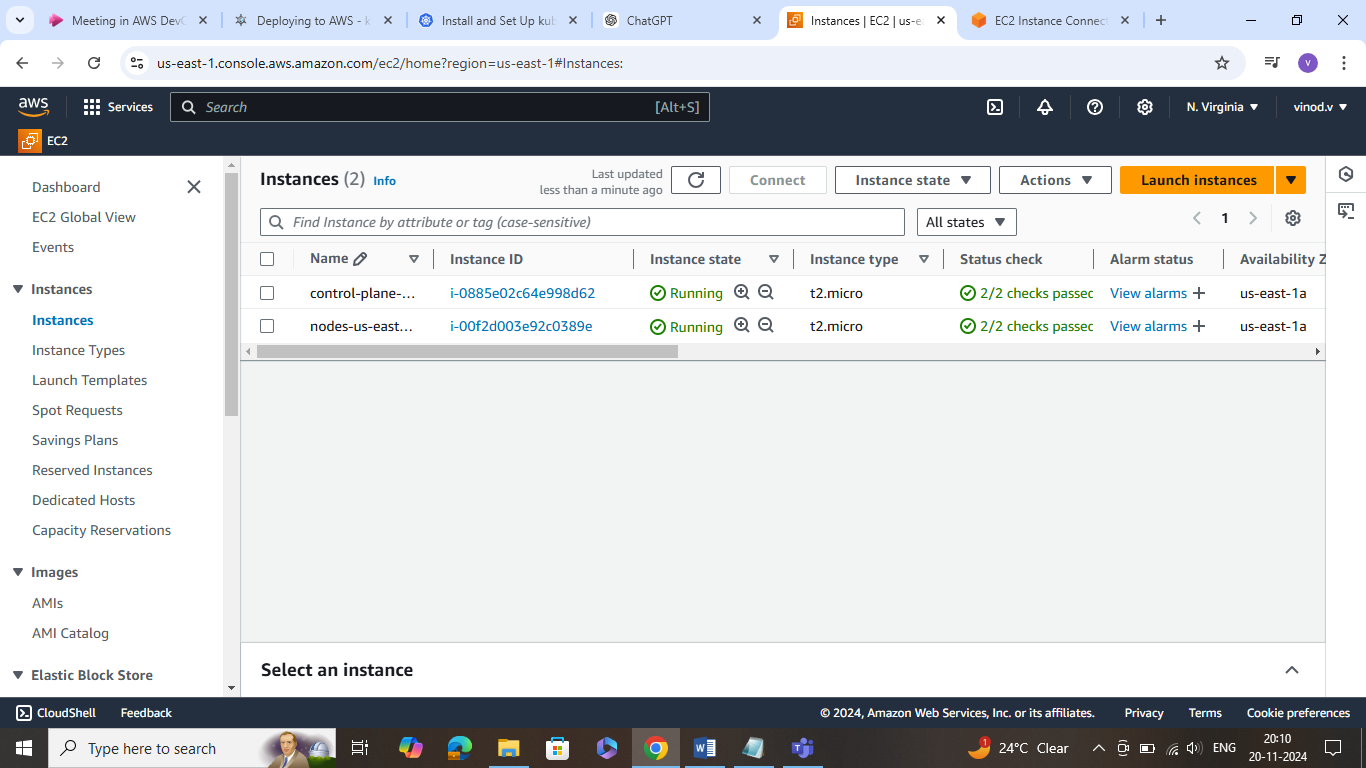




* Amazon s3 objects created



* Ec2 instances also created



* Inside 2 pods creation process.

