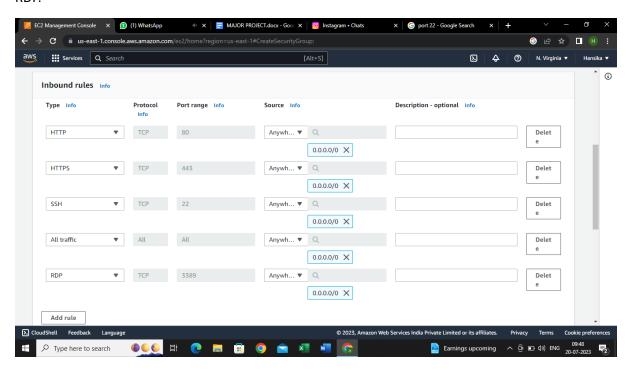
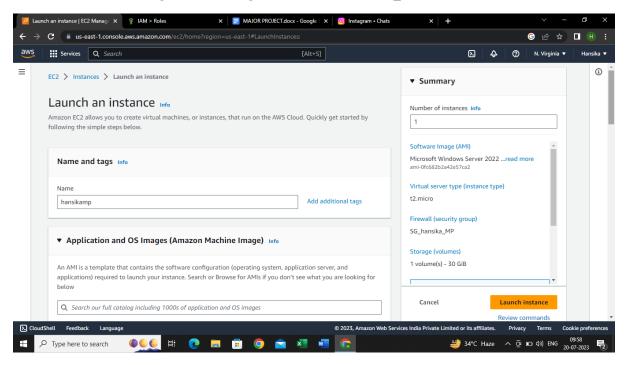
MAJOR PROJECT REPORT

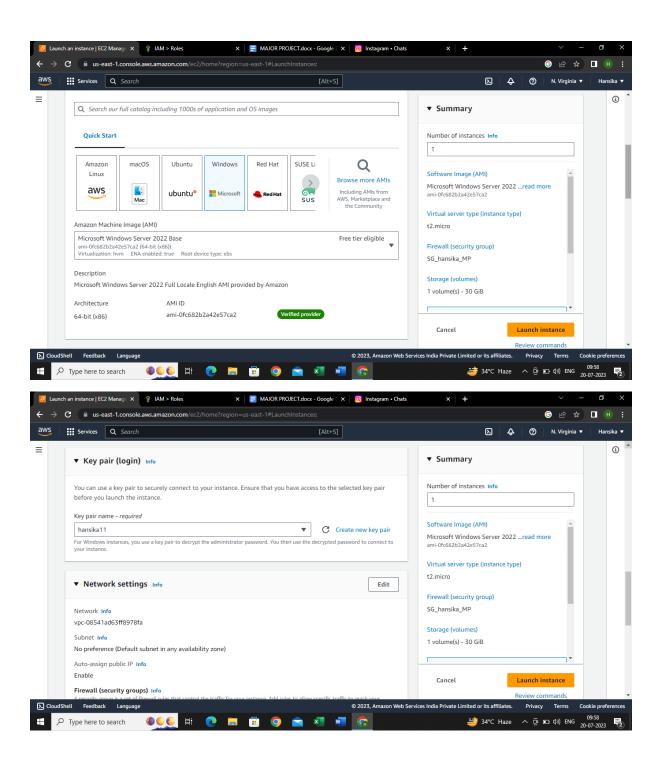
TASK 1

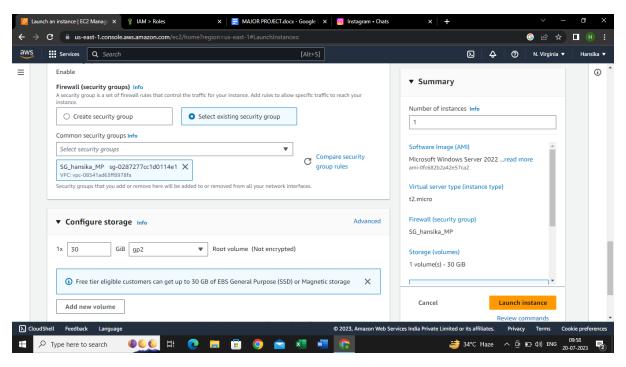
Create a Security group <SG_Firstname_MP> with inbound and outbound ports 80, 443, 22, ALL and RDP.



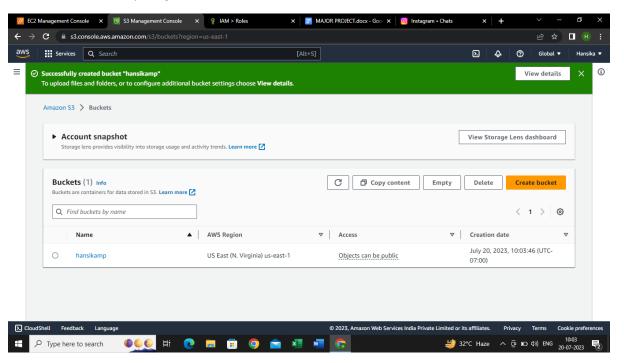
Create EC2 Instance using windows image (t2.micro) <Firstname_MP>



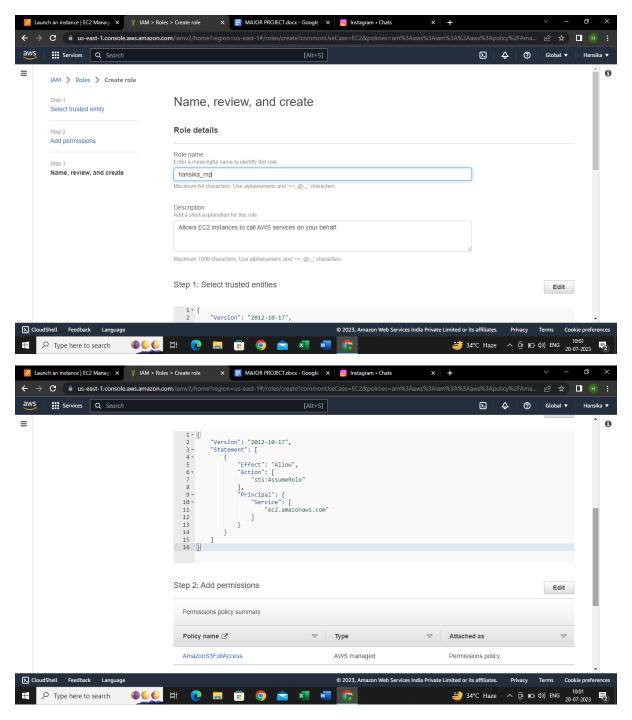




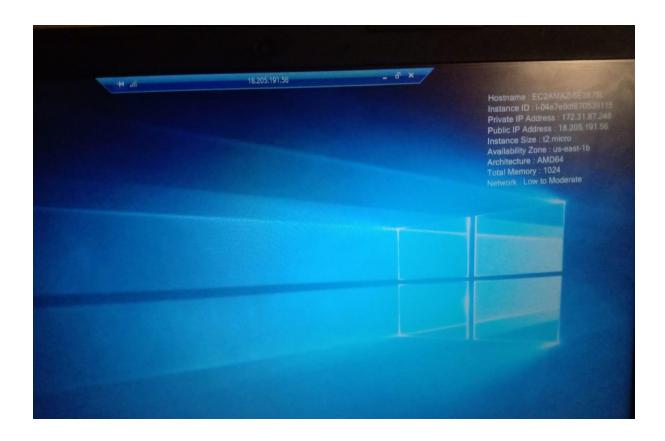
Create S3 bucket <anything>



Create IAM role (S3 Full Access) and attach to EC2 instance <Firstname_MP_Full>

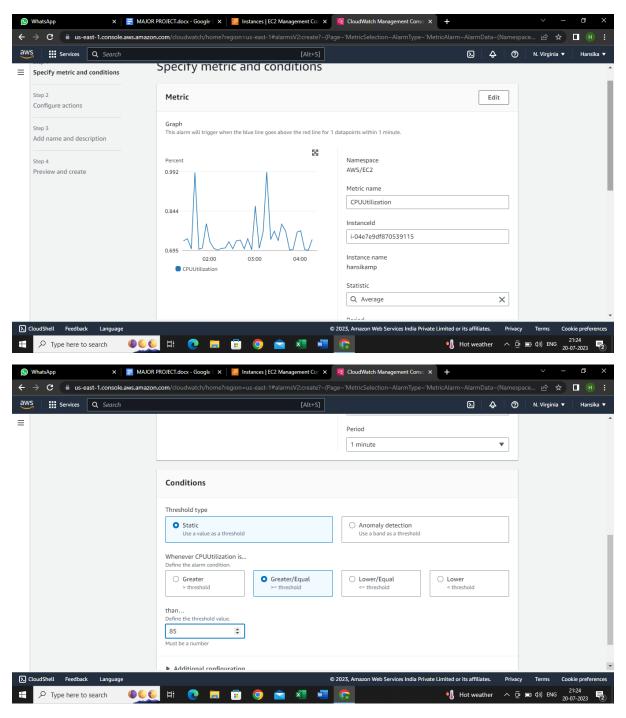


Connect EC2 instance to RDP.

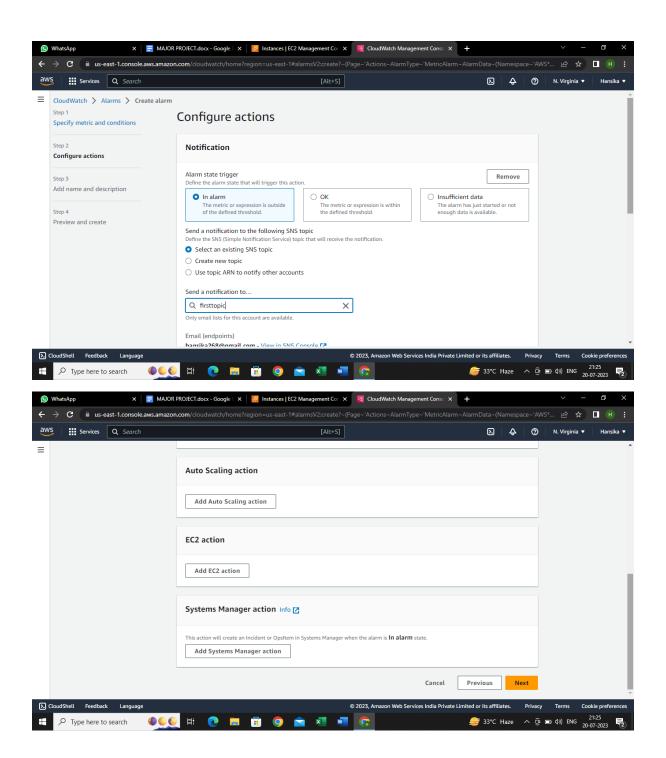


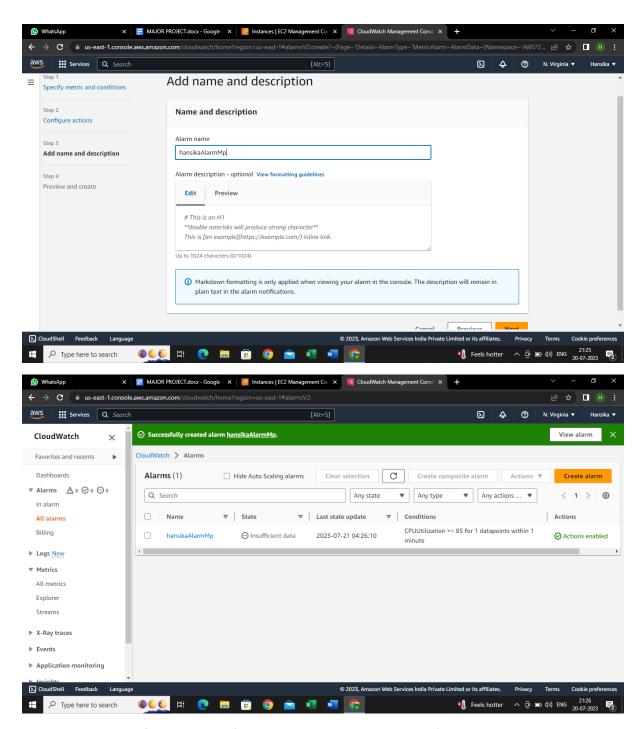
TASK 2

Create an alarm for EC2 CPU utilisation <Firstname_Alarm_MP>
Set Threshold of 85%



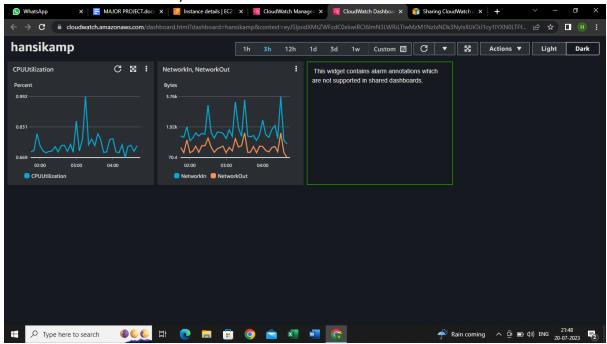
Create SNS topic and attach it to alarms Do not assign any EC2 action.





Create a Dashboard for monitoring (CPU utilisation, Networks, Alarms) <Firstname_Monitoring_MP>

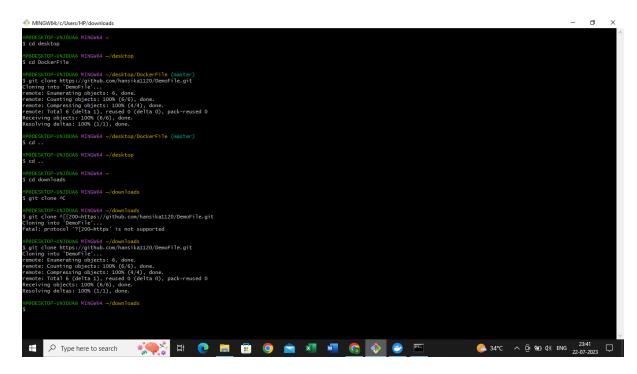
Share Your Dashboard Publicly



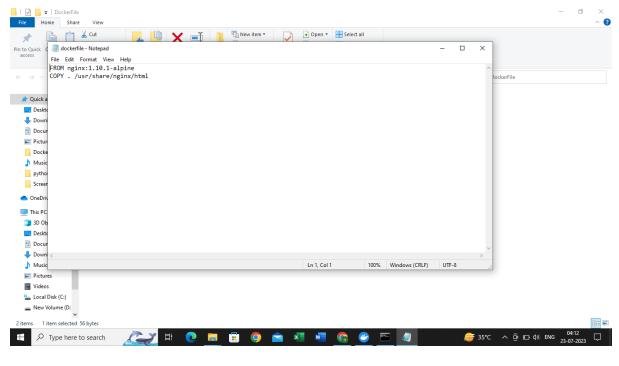
TASK 3

Install Docker on recently created EC2 instance Install git on EC2

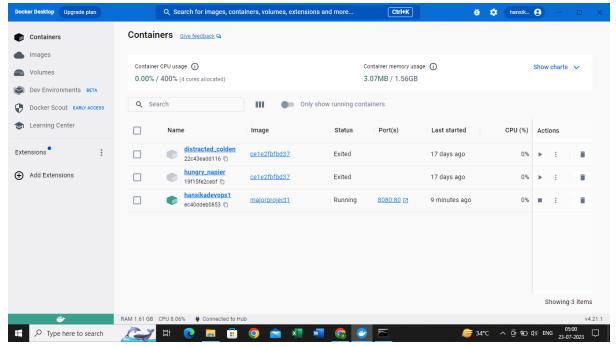
Clone Static website from GitHub and Edit (Name and University Roll Number)



Create a Docker File using NGINX image Link static website to NGINX dockerfile

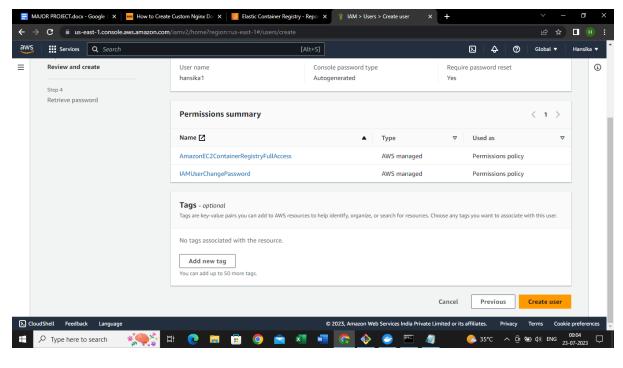


Create a docker container out if Dockerfile

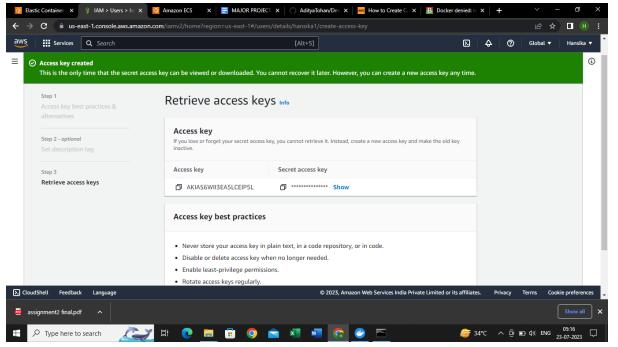


TASK 4

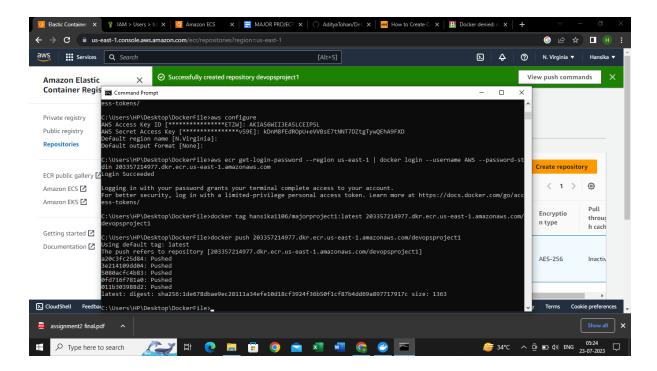
Create an AWS ECR <FirstName_Repo_MP>
Create an IAM User with Registry Full access



Create a new Access Token for IAM User

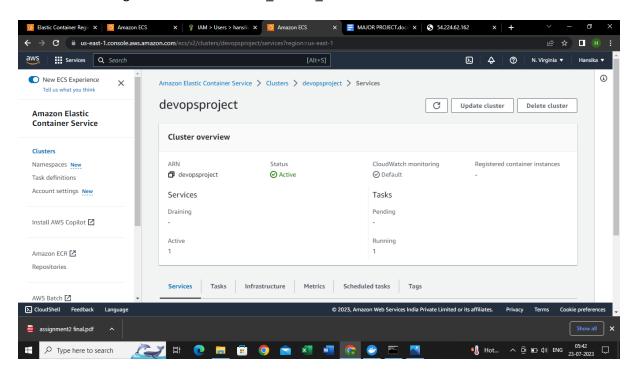


Install AWS CLI using CLI Run AWS ECR push commands to push docker container into ECR



TASK 5

Create an ECS Fargate Cluster <FirstName Cluster MP>

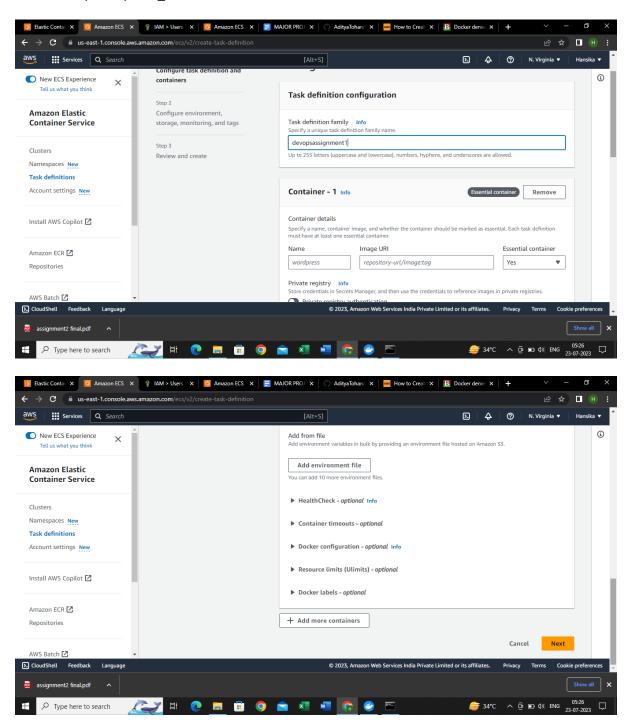


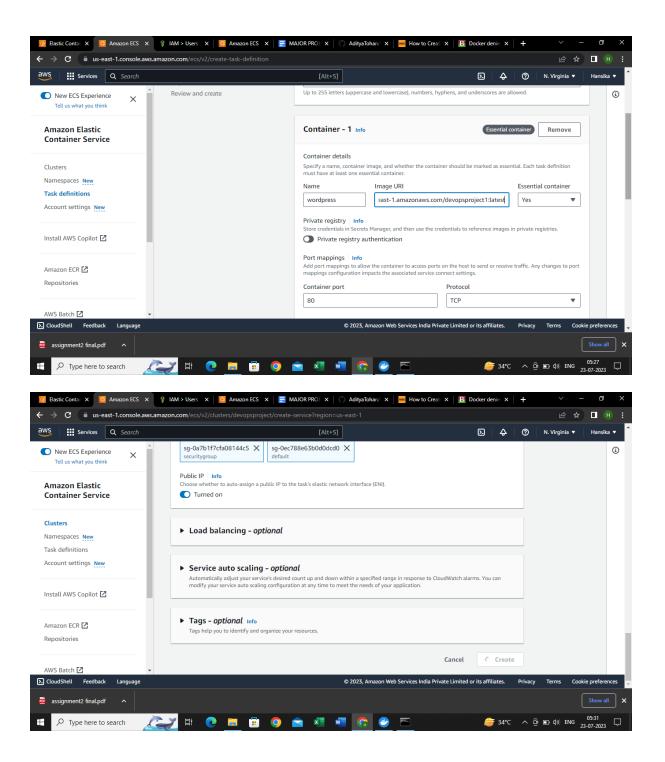
Create a new Task Defination <FirstName_Major-Project>

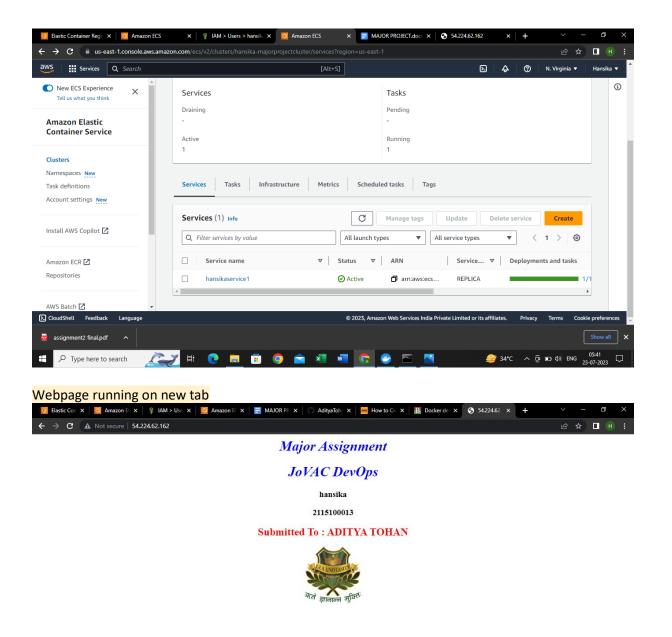
Copy Image URL from your ECR with 1vcpu & 3GB Memory

Create a new Service using Launch type. And add family name.

Add Security Group <SG_FirstName> Ports: SSH, HTTP, HTTPS, All



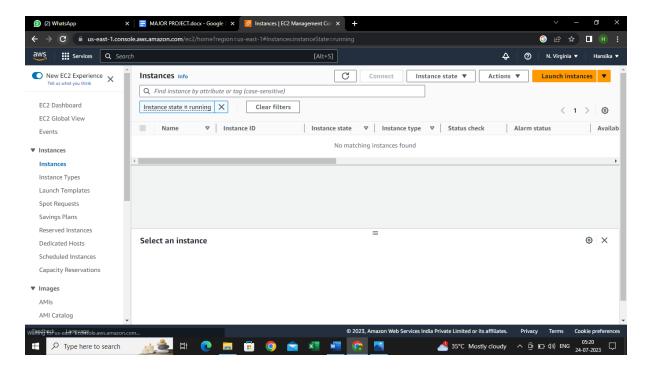




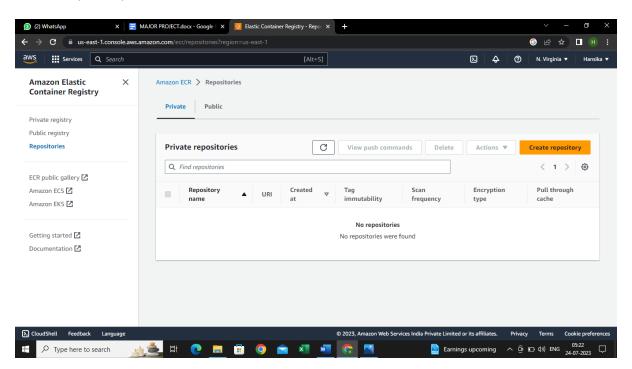


TASK 6

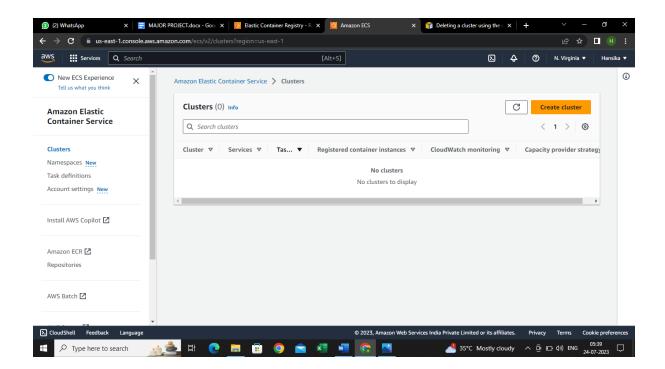
Deleted ec2 instance



Deleted repository



Deleted cluster



Submitted by Hansika 2115100013