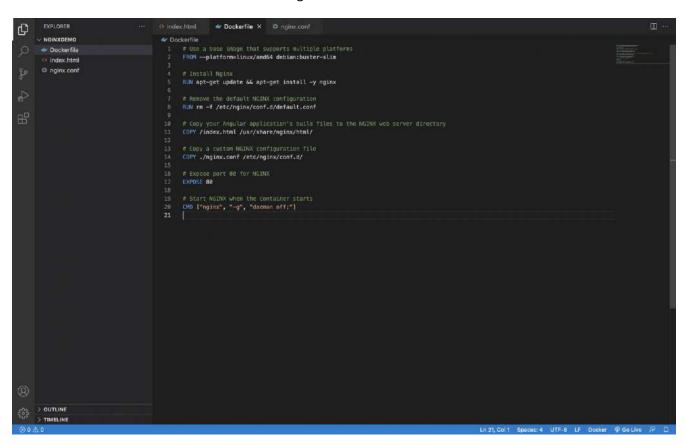
## Pushing Docker Image to AWS ECR

## Pre-requisites:

- 1. Docker Desktop
- 2. AWS CLI
- 3. Visual Studio Code

## Steps:

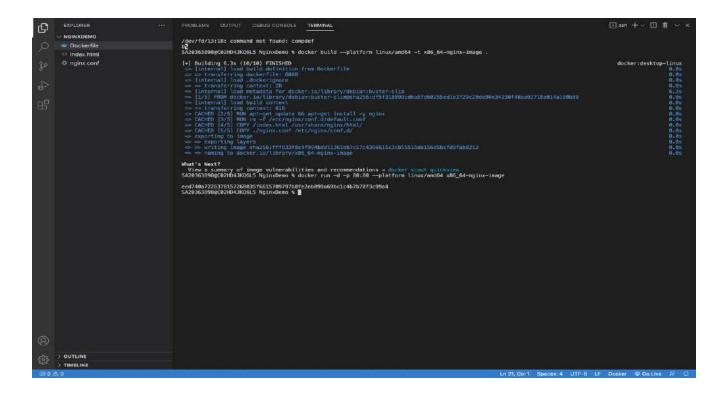
- 1. Create folder and open in visual studio code.
- 2. Create Docker file and build Docker Image in local machine.



Open terminal and run following commands

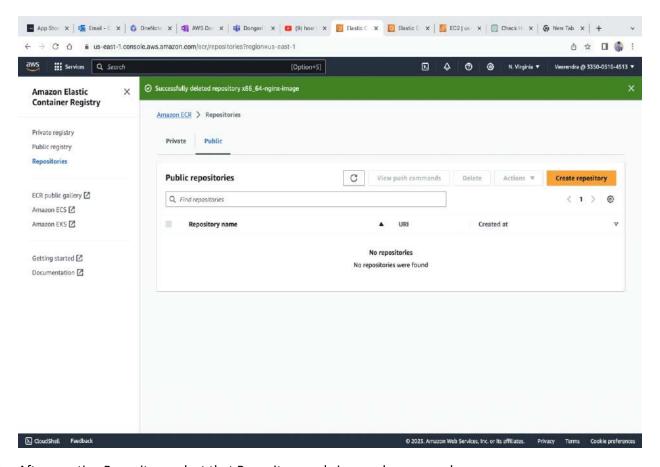
For Building Docker Image command is: docker build –t imagename.

For running Container command is: docker -p hostport:containerport imagename

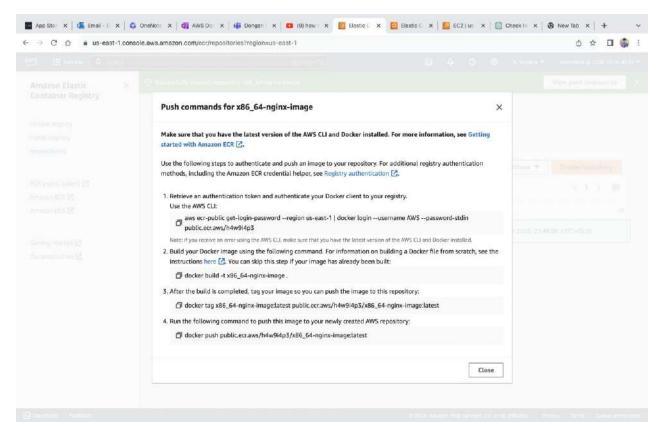


Now login to Amazon Web Service Console

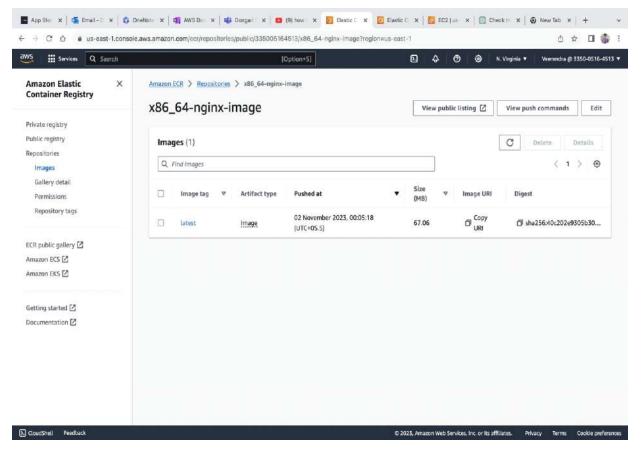
- 1. Open AWS Elastic Container Registry (ECR)
- 2. In menu open Repositories and create Repository



3. After creating Repository select that Repository and view push commands

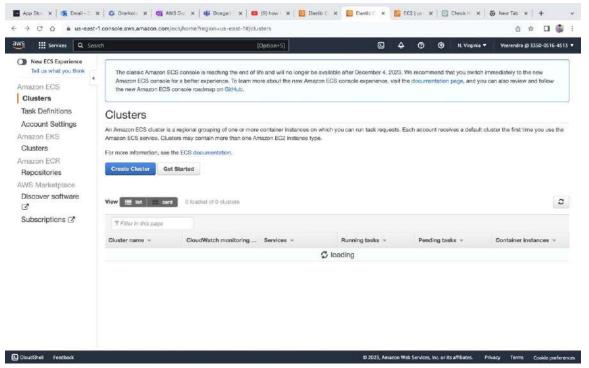


- 4. Run the above commands in visual studio code.
- 5. After running the above commands, the docker image is successfully pushed to AWS ECR.

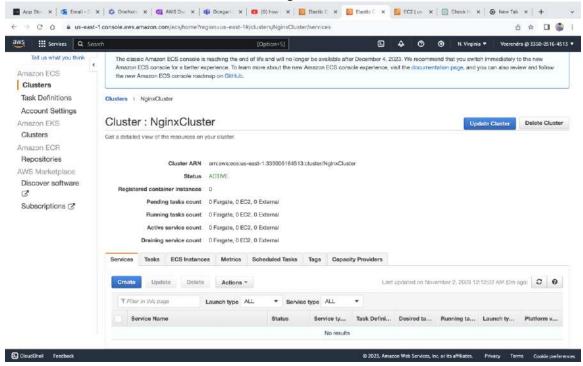


6. Now open AWS Elastic Container Service (ECS)

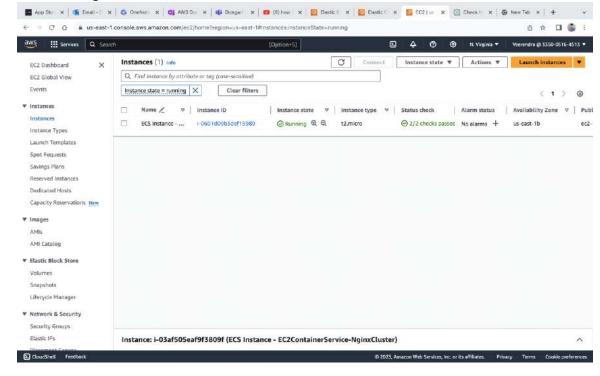
7. Create Cluster in ECS



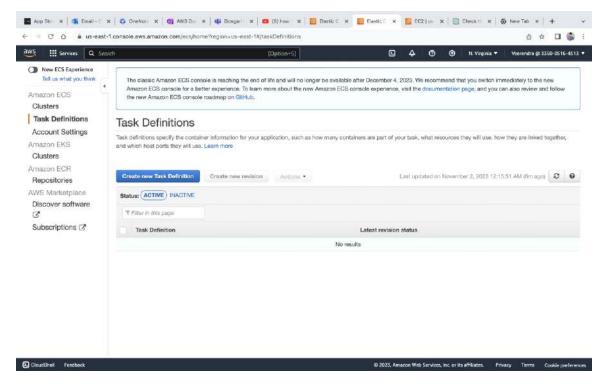
8. Click the create cluster button and make configurations based on the need.



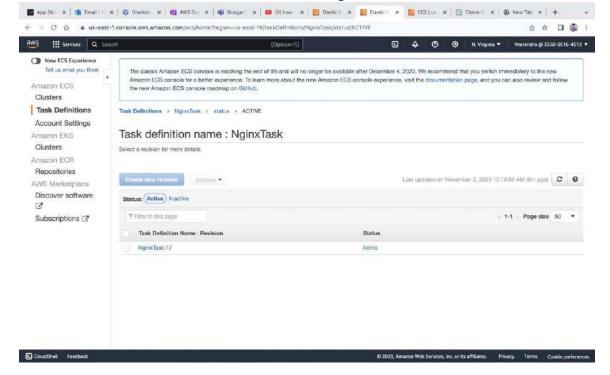
- 9. After creating the cluster, it will look like in the above screenshot.
- 10. After creating the cluster, it also creates one EC2 instance.



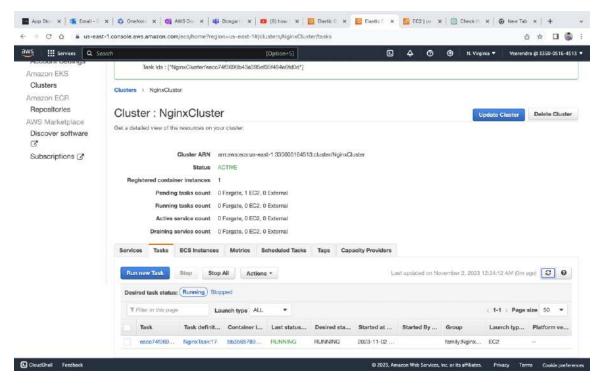
11. Now create task definition to run tasks.



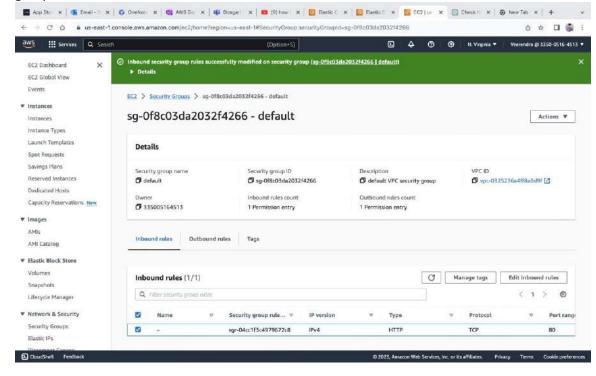
12. Click the create task definition button and make configurations based on the need.



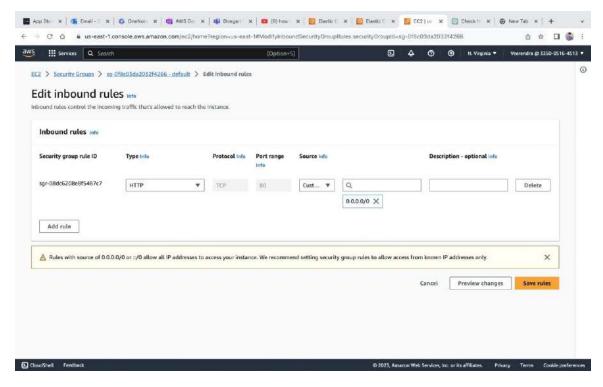
- 13. After creating the Task Definition, it will look it in the above screenshot.
- 14. Now go to cluster that we created and go to tasks and Run new Task.



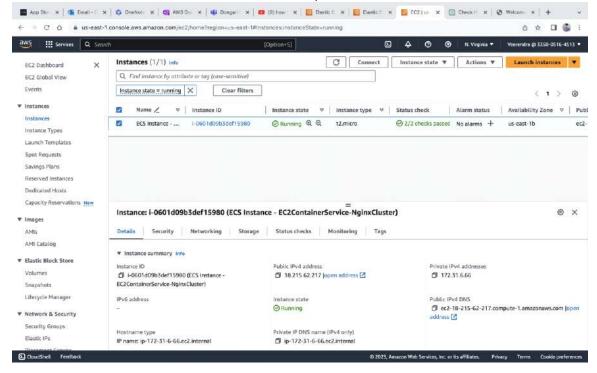
- 15. After running a task it will create one task like in the above screenshot.
- 16. Now to go to EC2 instance and select that EC2 instance go to security tab and select security groups.



17. Click Edit inbound rules and add configuration.



- 18. Click on Add rule and add port number and select AnyWhere IPv4 in Source dropdown and click on save rule.
- 19. After that go to EC2 instance and go to Details tab and copy public IPv4 address and then paste in browser and click enter then it will show the output.



20. This is the process for pushing the local docker image to AWS ECR and running container in AWS