AWS - Elastic Container Service (ECS)

Pre-requisite

Install docker

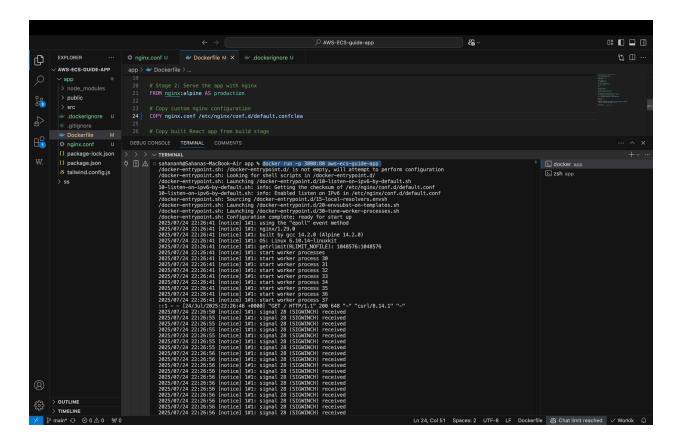
Build the Docker Image Locally

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Run the image



Login to ECR (Elastic Container Registry)

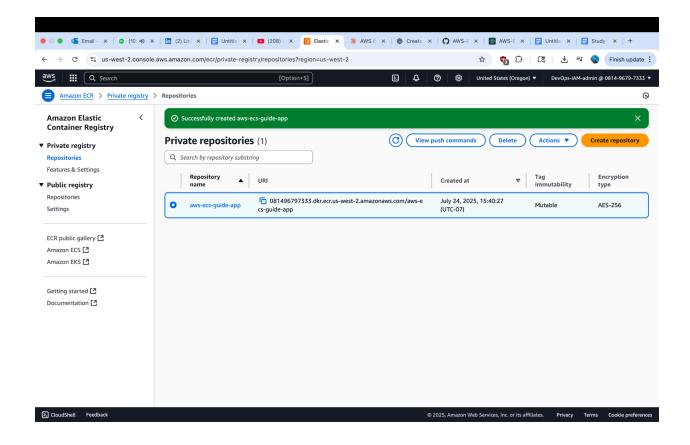
Before that, Make sure your **AWS CLI** is configured and has valid credentials get your **AWS account number** by running the below command

aws sts get-caller-identity

Get the account id and run below cmd, to login to ECR. Make sure the region is correct.

aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-stdin <your-account-id>.dkr.ecr.us-east-1.amazonaws.com

Once logged in. Go to AWS console and create ECR repository and keep an eye on the region



Now, upload the docker image from local to ECR using the below cmd

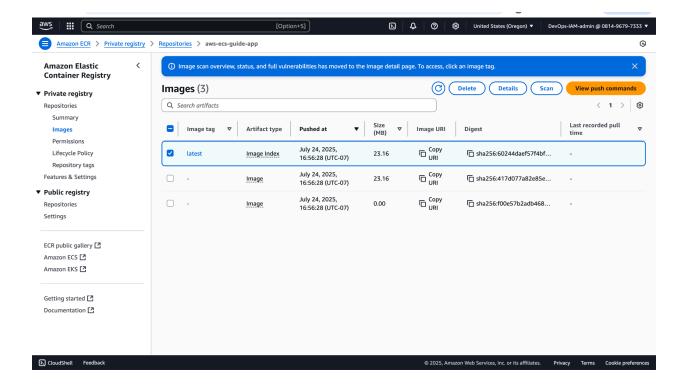
Tag

docker tag <image-name>:latest <your-account-id>.dkr.ecr.us-east-1.amazonaws.com/aws-ecs-guide-app:latest

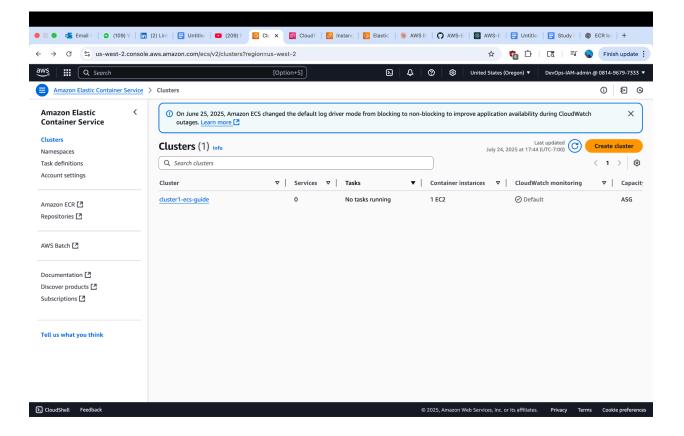
Push

docker push <your-account-id>.dkr.ecr.us-east-1.amazonaws.com/aws-ecs-guide-app:latest

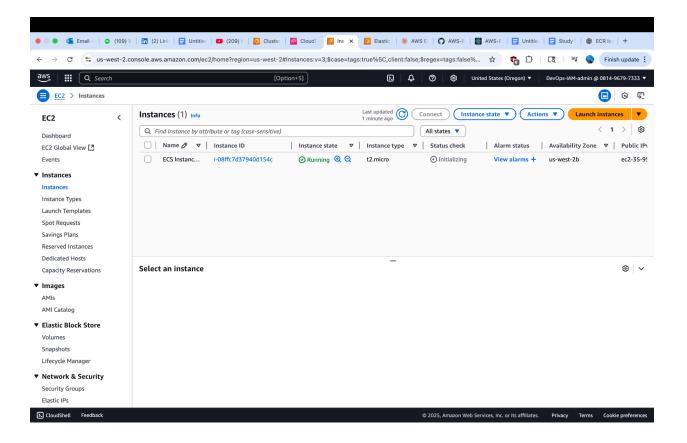
Once pushed, you can see the latest image on the ECR



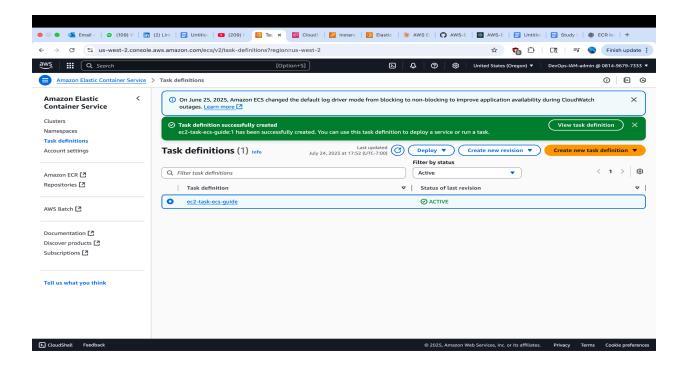
Next, navigate to ECS and create a cluster, choose EC2/fargate, vpc, subnet, security group and click on create. It creates a cluster and ec2 instance specified.



Verify the ec2 instance



Go and create a task and give the ECR repository URL while defining the container.



Once the task is created, go to the cluster and deploy a task by clicking on run task. After selecting the created task, the application in ECR that is docker image is going to deploy in the machine.

