Deploy Django Application on AWS using ECS and ECR

Launch one instance in t2.medium.
Install aws cli and configure
#aws configure
access_key="----------"
secret_access_key="----------"

Install docker for creating docker file
#sudo apt install docker.io

create docker group
#sudo groupadd docker

Add user to the docker group
#sudo usermod -aG docker [user-name]

To activate changes to the group
#newgrp docker

restart docker
#systemctl restart docker

Create a Docker File — Add the "Dockerfile" to the Django application.
#vim Dockerfile

OR -> clone the repository from git.
#git clone (**git-url**)

Create Repository on AWS ECR – private > Repository name> create
-click on created repo and using the below command on local

Retrieve an authentication token and authenticate your Docker client to your registry.
Use the AWS CLI:
#aws ecr get-login-password --region us-east-2 | docker login --username AWS
--password-stdin 690940206480.dkr.ecr.us-east-2.amazonaws.com

Build your Docker image using the following command

#docker build -t django-repo .

After the build completes, tag your image so you can push the image to this repository

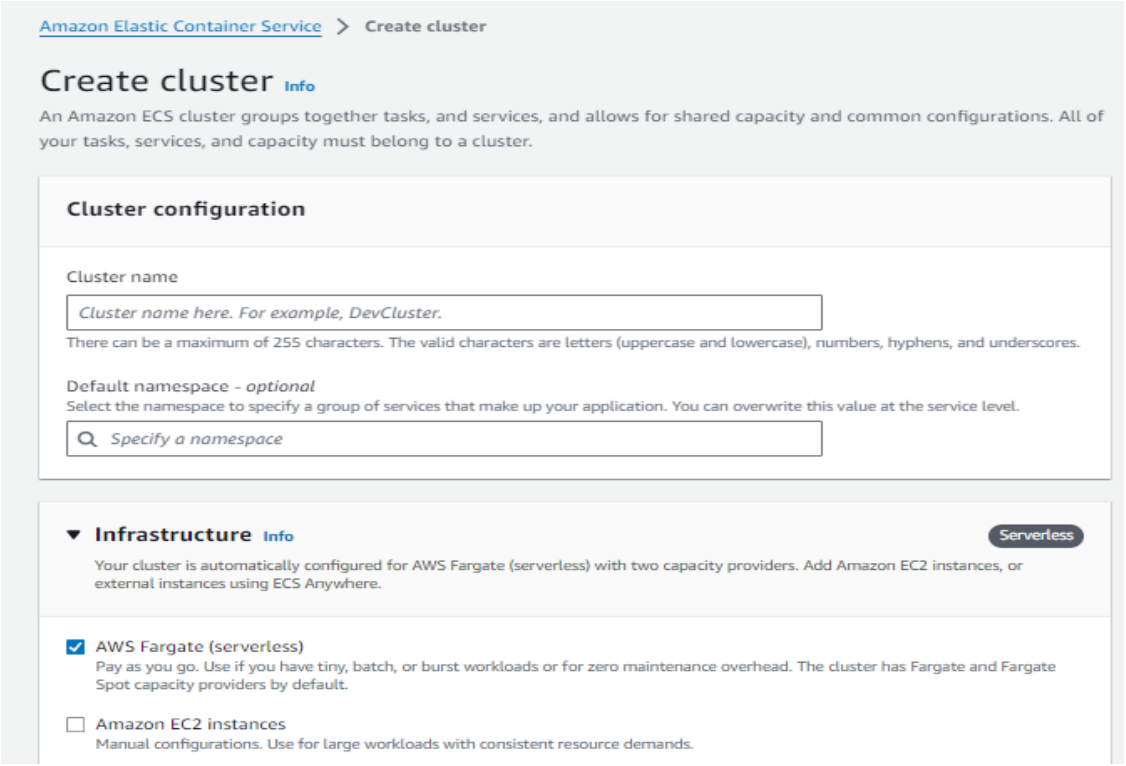
#docker tag django-repo:latest
690940206480.dkr.ecr.us-east-2.amazonaws.com/django-repo:latest

Run the following command to push this image to your newly created AWS repository

#docker push 690940206480.dkr.ecr.us-east-2.amazonaws.com/django-repo:latest

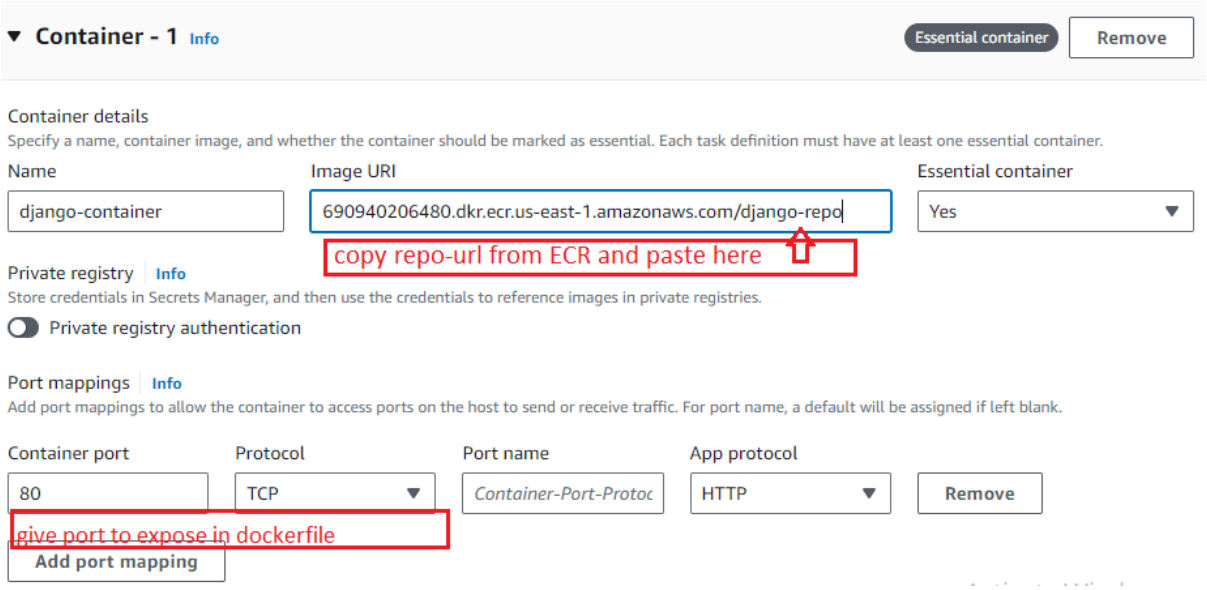
Go to ECS and create Cluster :

Cluster name - django-cluster -> select - AWS Fargate→create



Create Task definations -
Create new task definition -
Task definition family - —---------- > Select AWS Fargate
Task size
-Select CPU - 0.5 vCPU
-Select Memory - 1 GB

Container details -



After creating task definitions go to deploy and create service
Service name - django-service
Desired tasks - 2 **—> create**

After creating the service go to cluster open service
Go to task and check the status of task is running.
-> copy the public ip and heat on the browser.