

Elastic Container Registry – ECR

1. Go to the AWS Management Console and navigate to the Amazon ECR service.
2. Create a new Repository. It is not a free service.
- 3.

The screenshot shows the 'Create repository' page in the AWS Management Console. The 'General settings' section includes a 'Repository name' field with the value '905418278874.dkr.ecr.ap-south-1.amazonaws.com/app-mgo' and a note that the name must start with a letter and contain only lowercase letters, numbers, and special characters. The 'Image tag mutability' is set to 'Mutable'. The 'Encryption settings' section shows 'AES-256' as the selected encryption method. The 'Image scanning settings' section shows a deprecation warning. At the bottom right, there are 'Cancel' and 'Create' buttons.

Click on Create.

4. Installing AWS CLI
5. Configuring AWS CLI : **aws configure**
Enter your AWS Access Key ID, Secret Access Key, default region, and preferred output format when prompted.
6. Attach ECR policy to the iam user.
7. Pushing Docker Images to ECR
 - (i) Log in to your ECR registry using the AWS CLI:
`aws ecr get-login-password --region <your-region> | docker login --username AWS --password-stdin <your-aws-account-id>.dkr.ecr.<your-region>.amazonaws.com`
 - (ii) Write a Docker file to build an image: nano Dockerfile
FROM ubuntu:latest
 - (iii) Build your Docker image locally using the docker build command:
`docker build -t <your-image-name> <path-to-dockerfile>`
i.e. `docker build -t app-repo .`
 - (iv) Tag the image with your ECR repository URI:
`docker tag <your-image-name>:<tag> <your-aws-account-id>.dkr.ecr.<your-region>.amazonaws.com/<your-repository-name>:<tag>`
 - (v) Push the Docker image to ECR:
`docker push <your-aws-account-id>.dkr.ecr.<your-region>.amazonaws.com/<your-repository-name>:<tag>`
7. ECR Docker have default Registry i.e. docker.io
8. Pulling Docker Images from ECR:
`docker pull <your-aws-account-id>.dkr.ecr.<your-region>.amazonaws.com/<your-repository-name>:<tag>`