

AWS ECR (Elastic Container Registry)

What is AWS ECR?

AWS Elastic Container Registry (ECR) is a fully managed container registry that allows you to store, manage, and deploy Docker container images. It makes it easy to manage your container images and provides high availability and security.

Key Features:

1. **Managed Service:** AWS handles the infrastructure, scaling, and availability of the registry.
2. **Integration with ECS:** Seamlessly integrates with Amazon ECS and EKS (Elastic Kubernetes Service) for container orchestration.
3. **Secure Storage:** Provides encryption at rest and in transit, ensuring your images are secure.
4. **Access Control:** Allows you to use AWS IAM (Identity and Access Management) for fine-grained access control to your images.

Basic Usage:

1. **Create a Repository:** Use the AWS Management Console or CLI to create a new repository to store your container images.
2. **Push Images:** After building your Docker images locally, tag them and push them to your ECR repository.

bash

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Example commands

```
$(aws ecr get-login --no-include-email --region your-region)
```

```
docker tag your-image:latest your-account-id.dkr.ecr.your-region.amazonaws.com/your-repo:latest
```

```
docker push your-account-id.dkr.ecr.your-region.amazonaws.com/your-repo:latest
```

3. **Pull Images:** You can pull images from ECR to deploy them on your ECS or EKS clusters.