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Category:

Containers



Amazon ECR

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What?

- Amazon Elastic Container Registry (ECR) is a fully managed container registry that makes it easy to store, manage, share and deploy your container images and artifacts.
- You can easily access Amazon ECR from any Docker environment, whether in the cloud, on-premises, or on your local machine.

Why?

- Amazon ECR eliminates the need to operate and scale the infrastructure required to power your container registry.
- You can configure policies to manage permissions for each repository and restrict access to IAM users, roles, or other AWS accounts. Amazon ECR is integrated with third-party developer tools.

When?

- You want to use the familiar Docker CLI, or your preferred client, to push, pull, and manage images.
- You want to use lifecycle policies to manage your images, for example expiring images based on age or count.
- You want to scan software vulnerabilities in your container images on push using Amazon Inspector.

Where?

- Amazon ECR is a Regional service. Amazon ECR stores your container images and artifacts in Amazon S3.
- It also supports cross-Region and cross-account replication.

Who?

- You can easily push your container images to Amazon ECR using the Docker CLI from your development machine.
- You can set up AWS PrivateLink endpoints to pull images from your private repositories without traversing internet.

How?

- After you create a repository, you can use your preferred CLI to push, pull, and manage Docker images, Open Container Initiative (OCI) images, and OCI compatible artifacts. Amazon ECR transfers your container images over HTTPS and automatically encrypts your images at rest. You can configure resource-based permissions using IAM.

How much?

- You pay only for the amount of data you store in your public or private repositories, and data transferred to the internet.
- Data transferred between Amazon Elastic Container Registry and Amazon EC2 within a single region is free of charge.
- Data transferred between Amazon ECR and Amazon EC2 in different regions is charged at Internet Data Transfer rates.