

EC2, ECS, & ECR

Hosting on AWS



Hosting your Apps on AWS

- Lightsail (Good to start with) - Simpler Service Setup
- Elastic Cloud Compute - EC2
- Elastic Container Service - ECS
- Elastic Kubernetes Service - EKS
- Lambda
- Beanstalk

Lightsail

A Virtual Private Server (VPS) service that is very similar to EC2, but has its own differences.

- You get a server (just like EC2), so it's not serverless.
- Simpler if you're just starting
- Easier to setup Databases, Load-Balancers, Storage

ECR

A service that allows you to store your container images (just like DockerHub)

- Can be public (free) or private (paid)
- Has security features
 - Tag Immutability
 - Security Scanning

ECS

A managed-service that allows you to run containerized workloads and easily configure them for public/private access and a whole lot of things.

- You can either use **EC2** (Self-Managed) as a backend or **Fargate** (Serverless)
- Easy to Auto-Scale

EKS

A managed Kubernetes service. Allows you to run Kubernetes on AWS for easier integration with AWS services.

- Can be run on EC2 or Fargate as well.
- Allows for a whole lot of configurability and control over your workloads.

K8s (Kubernetes) - Personal Experience/Opinion

- Unless you have a team willing to work on K8s, don't do it.
- If you decide to use K8s, take your time learning K8s before doing it.
- It's not scary, it just has a lot of things to know about.
- A lot of things to manage/configure on your own.
 - Both of these can be a blessing or a curse