

# EKS vs ECS

## Which AWS Container Service Is Right for You?

Choosing a container orchestration service can be tough!

Let's break down Amazon EKS and ECS features.

# Service Overview

## EKS

- Managed Kubernetes service
- Multi-cloud flexibility
- Standard K8s tooling

## ECS

- Native AWS service
- AWS-integrated platform
- AWS-native tools

# Control Plane

## EKS

- \$0.10/hour per cluster
- Customer managed upgrades
- Manual version selection

## ECS

- No additional cost
- AWS managed updates
- Automatic updates

# Deployment Options

## EKS

- EC2 nodes & Fargate
- Managed node groups
- Self-managed nodes

## ECS

- EC2 instances & Fargate
- Capacity providers
- Auto Scaling groups

# Service Integration

## EKS

- AWS Load Balancer Controller
- External-DNS add-on
- AWS IAM authenticator

## ECS

- Native ALB/NLB integration
- Service Discovery built-in
- Native IAM roles

# Scaling Features

## EKS

- Kubernetes Cluster Autoscaler
- Horizontal Pod Autoscaling
- Vertical Pod Autoscaling

## ECS

- Service Auto Scaling
- Target Tracking Scaling
- Step Scaling

# Learning Curve

## EKS

- Kubernetes expertise required
- Complex YAML manifests
- Industry-standard skills

## ECS

- AWS knowledge sufficient
- Simple task definitions
- AWS-specific skills

# Cost Factors

## EKS

- Control plane cost
- Node infrastructure: EC2/Fargate
- Higher operational overhead

## ECS

- No control plane cost
- Instance infrastructure: EC2/Fargate
- Lower operational overhead



# Best Use Cases

## EKS

- Multi-cloud strategy
- Complex microservices
- Existing Kubernetes workloads

## ECS

- AWS-only workloads
- Simple containerized apps
- Quick time-to-market

# Final Thoughts

## Choose EKS if you need

- Kubernetes compatibility
- Multi-cloud flexibility
- Existing K8s expertise

## Choose ECS if you want

- Simpler AWS-native management
- Faster deployment
- Lower operational overhead

# Ready to level up your Container Game?

Follow for more engineering tips.