ECS

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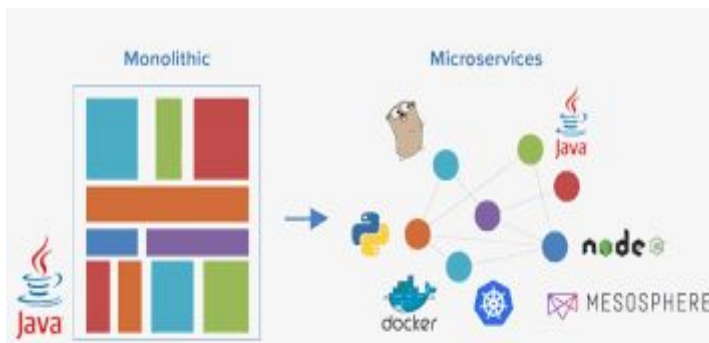# 1 AWS Container Orchestration

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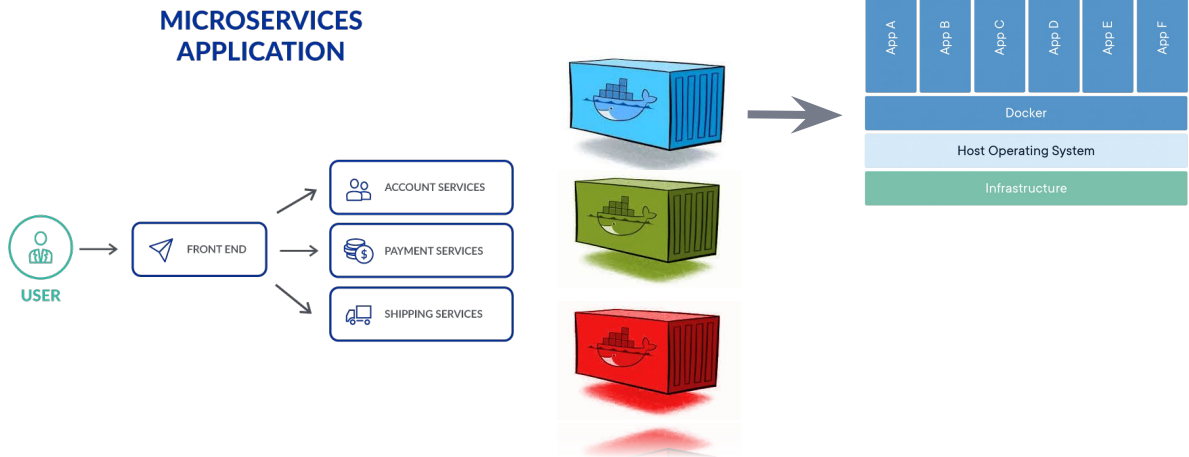# What is Container Orchestration?

Microservices vs Monolith

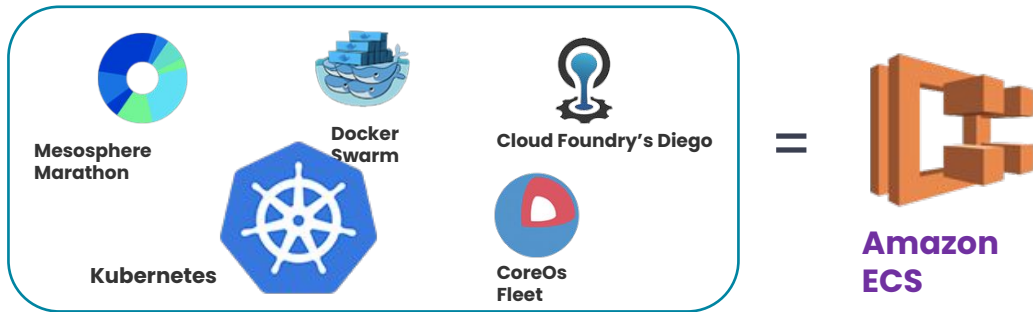# AWS Container Orchestration
What is Container Orchestration?

AWS Container Orchestration
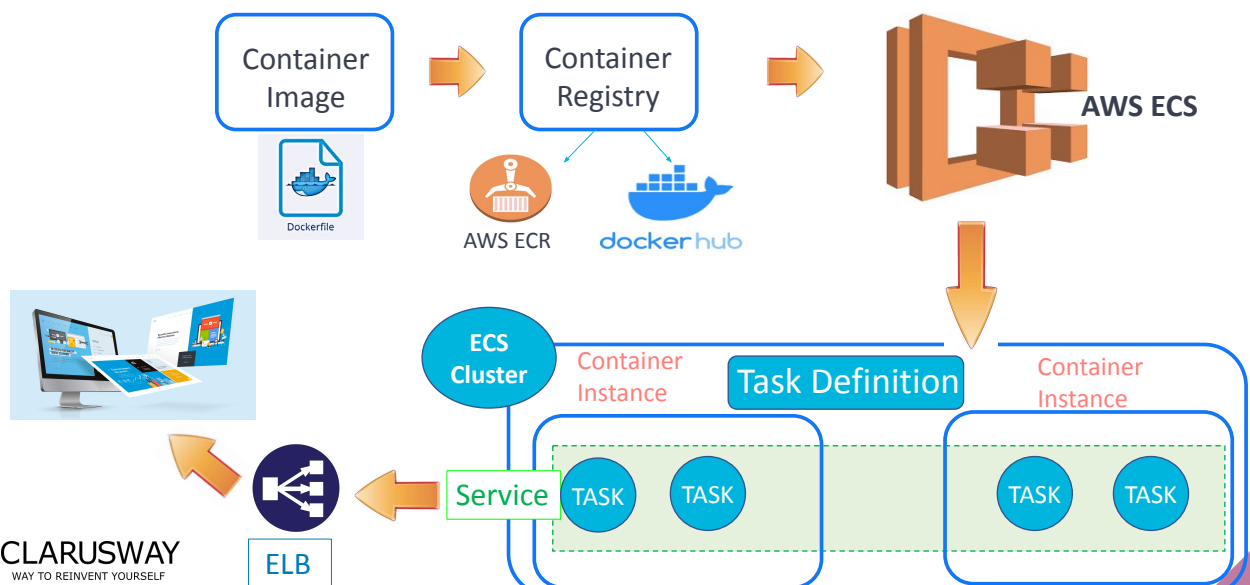## What is Container Orchestration?

AWS Container Orchestration

What is Container Orchestration?

Mesosphere Marathon — Docker Swarm — Cloud Foundry's Diego — Kubernetes — CoreOs Fleet = Amazon ECS

AWS Container Orchestration

What is Container Orchestration?

Container Image → Container Registry → AWS ECS

Dockerfile

AWS ECR — docker hub

ECS Cluster — Container Instance — Task Definition — Container Instance

Service — TASK TASK — TASK TASK

ELB

2 ▸ Amazon Elastic Container Service

Amazon ECS

What is Amazon ECS?
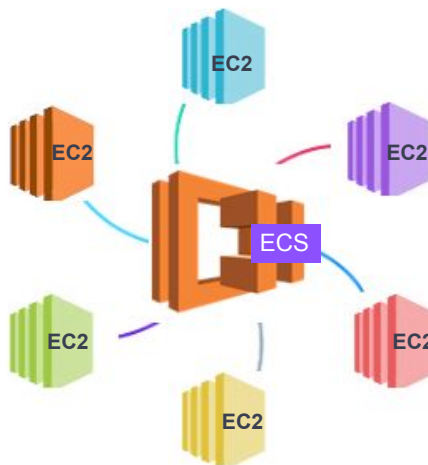
Amazon ECS

What is Amazon ECS?
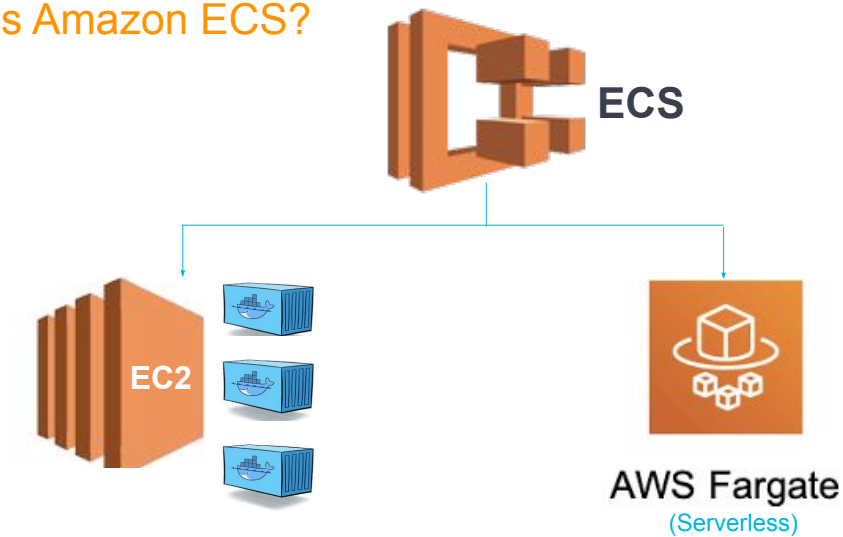
Amazon ECS

Key Components of ECS

ECS	Description
Cluster	A logical grouping of tasks or services.
Task Definition	The blueprint that describes how a Docker container launch
Task	A running container of a task definition within a cluster
Service	It allows us to run and maintain our desired number of tasks simultaneously in an Amazon ECS cluster.

ECS vs Kubernetes

Amazon ECS

Manage Amazon ECS

Interface	Description
AWS Management Console	Provides a web interface that you can use to access your Amazon ECS resources.
AWS Command Line Interface	Provides commands for a broad set of AWS services, including Amazon ECS.
AWS Copilot	Provides an open-source tool for developers to build, release, and operate production ready containerized applications on Amazon ECS.
Amazon ECS CLI	Provides a command line interface for you to run your applications on Amazon ECS and AWS Fargate using the Docker Compose file format.

Amazon ECS

ECS vs EKS

	ECS	Amazon EKS
Simplicity /Flexibility	Simple	Flexible
Pricing	Free of charge	$0.10 per hour for using EKS service equals $72 per month for each cluster
Security	Deeply integrated with IAM	Requires add-ons to enable IAM functionality
Portability	Only available in AWS env.	You can run clusters in any other Kubernetes environment even on-premises
Community Support	No	Yes

AWS ECS

Let's get our hands dirty!

THANKS!

Any questions?

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