



ECS



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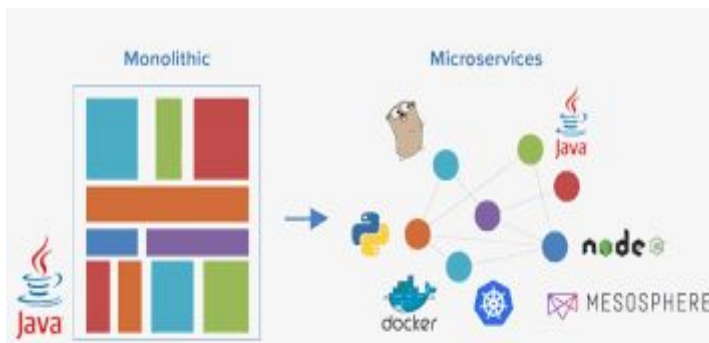
AWS Container Orchestration

CLARUSWAY
WAY TO REINVENT YOURSELF



What is Container Orchestration?

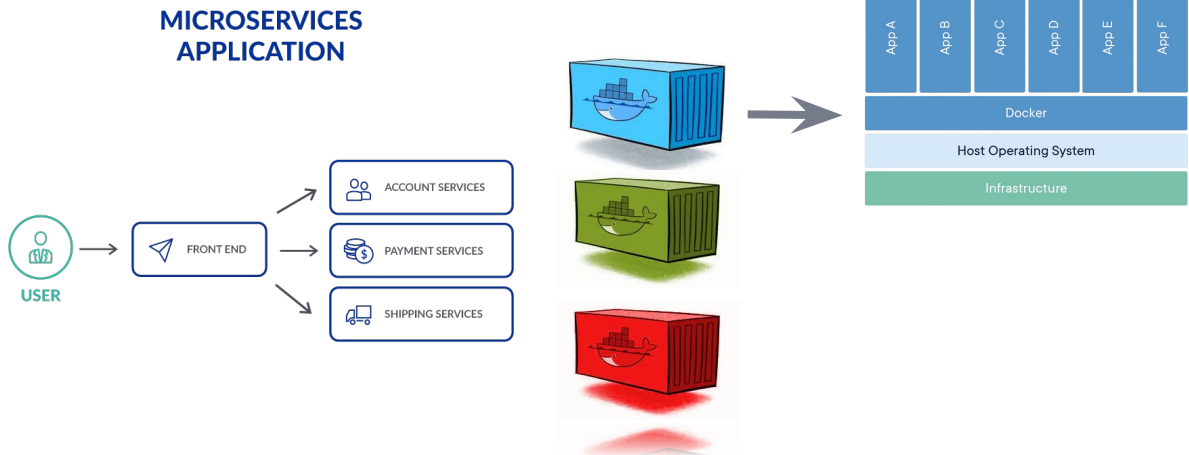
Microservices vs Monolith





AWS Container Orchestration

What is Container Orchestration?



AWS Container Orchestration

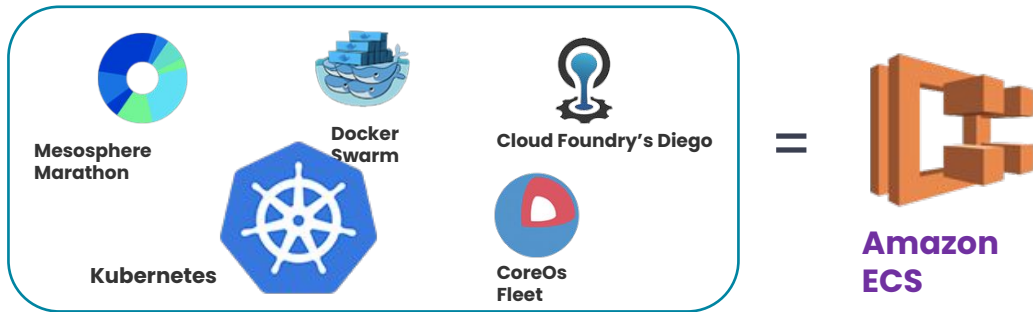
What is Container Orchestration?





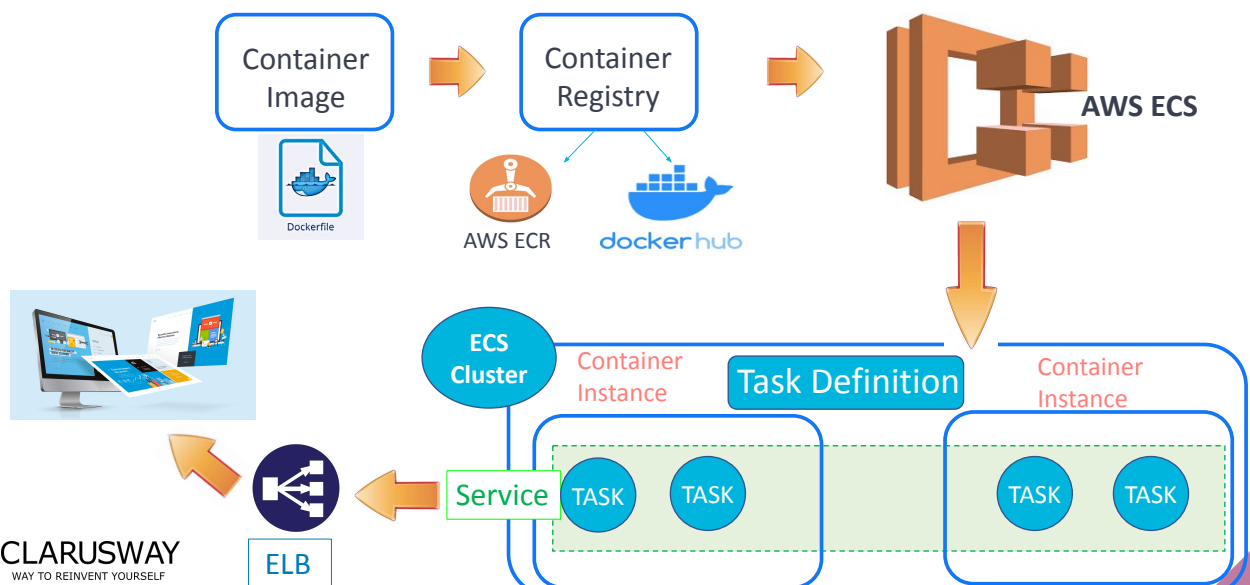
AWS Container Orchestration

What is Container Orchestration?



AWS Container Orchestration

What is Container Orchestration?





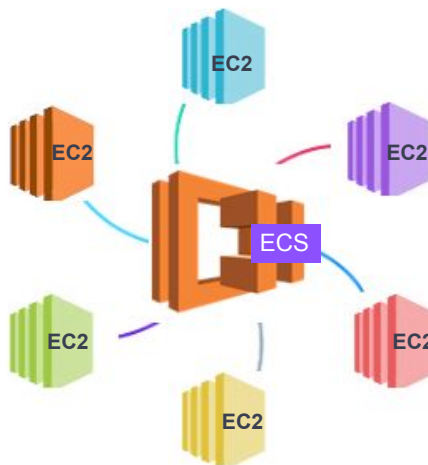
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Amazon Elastic Container Service



Amazon ECS

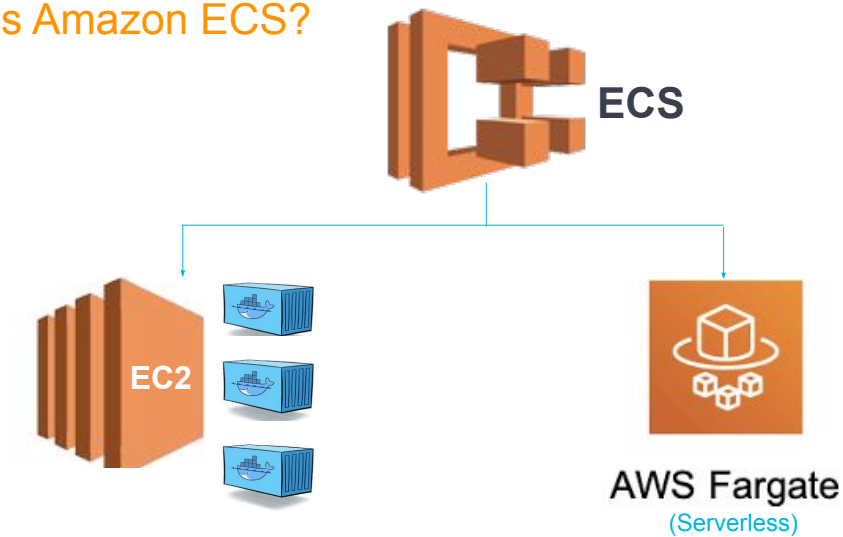
What is Amazon ECS?





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. |



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 |
| Networking (ENI) | ECS lets you run up to 120 tasks per EC2 instance. | EKS lets you run up to 750 pods per instance |
| Community Support | No | Yes |



AWS ECS

Let's get our hands dirty!



THANKS!

Any questions?

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