**Elastic Container Service** Description

## Service Overview

Amazon **Elastic Container Service** (Amazon **ECS**) is a highly scalable, fast container management service that makes it easy to run, stop, and manage containers on a cluster. Your containers are defined in a task definition that you use to run individual tasks or tasks within a service. In this context, a service is a configuration that enables you to run and maintain a specified number of tasks simultaneously in a cluster. You can run your tasks and services on a serverless infrastructure that is managed by AWS Fargate. Alternatively, for more control over your infrastructure, you can run your tasks and services on a cluster of Amazon EC2 instances that you manage.

## Use cases / Considerations

* [*Amazon ECS: Core Concepts*](https://youtu.be/eq4wL2MiNqo)
* [*Writing Task Definitions for Amazon ECS*](https://youtu.be/o_qSS4S1g34)
* [*Task Placement with Amazon ECS*](https://youtu.be/8XwNPX4AV2M)
* [*Amazon ECS: Load Balancing for Containers*](https://youtu.be/hu7SyJHWJZ0)
* [*Amazon ECS: Autoscaling for Containers*](https://youtu.be/YEvU6uIckDc)

[*Common use cases*](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/common_use_cases.html)

## Governance

[*Available CloudWatch metrics*](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/cloudwatch-metrics.html)

## Cautions

[*Relevant quotas*](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/service-quotas.html)

## Pricing considerations

Pricing for EC2 and Fargate launch model is available on [this page](https://aws.amazon.com/ecs/pricing/)

## More details

[*Containers Roadmap*](https://github.com/aws/containers-roadmap)

[*AWS re:Invent 2020: Getting up and running with Amazon ECS*](https://youtu.be/9u_HKS_Lv6o)

[*AWS re:Invent 2019: [NEW LAUNCH!] Enabling application-first thinking with Amazon ECS (CON325-R1)*](https://youtu.be/v9xuKAdShFw)[*AWS re:Invent 2019: [REPEAT 1] AWS Fargate under the hood (CON423-R1)*](https://youtu.be/Hr-zOaBGyEA)

[*Deep Dive into AWS Fargate*](https://youtu.be/IEvLkwdFgnU)

[*Deep Dive on Amazon Amazon Elastic Container Service (Amazon ECS)*](https://youtu.be/qbEPae8YNbs)