



Amazon EC2 Container Service

Run containerized applications in production

Definition(s)

Is a highly scalable, fast, container management service that makes it easy to run, stop, and manage Docker containers on a cluster of EC2 instances.

Is a shared state, optimistic concurrency system that provides flexible scheduling capabilities for your tasks and containers.

Concepts

Task Definition - describes one or more Docker containers that form an application - containers and repositories, ports, data volumes, network mode, constraints.

Task - instantiation of a task definition on a container instance within a cluster.

Task Scheduler - responsible for placing tasks on container instances.

Service - allows to run and maintain a specified number (the "desired count") of instances of a task definition simultaneously in an ECS cluster. Can optionally run a service behind a LB which distributes traffic across the tasks that are associated with the service.

Manual task - run with RunTask action - suited for processes such as batch jobs that perform work and then stop.

Task Placement - RunTask and CreateService actions enable task placement constraints and task placement strategies to customize how ECS places tasks.

Cluster - a logical grouping of EC2/container instances where tasks are placed

Container instance - is an EC2 instance that is running the ECS container agent and has been registered into a cluster.

Amazon ECR - is a fully-managed Docker container registry.

