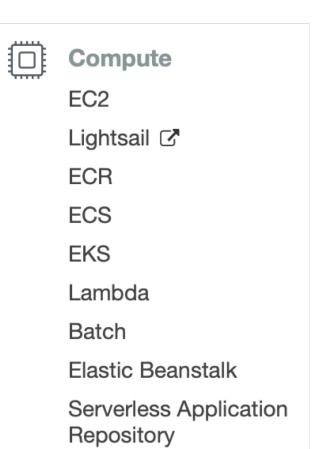
AWS Services Overview Compute Services

AWS Compute Services Overview

- Amazon EC2 Elastic Compute Cloud
- Amazon EC2 Container Service
- Amazon EC2 Container Registry
- Amazon Lightsail
- Amazon Batch
- Amazon Elastic Beanstalk
- Amazon Lambda
- Amazon Auto Scaling



Amazon EC2 – Elastic Compute Cloud

Amazon EC2 – Elastic Compute Cloud

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud.

Amazon EC2 makes elastic computing possible, you have full control, flexible configuration, it's integrated with most AWS services, reliable (99.95% availability) secure and inexpensive



Amazon EC2 Container Registry

Amazon EC2 Container Registry (ECR)

Amazon Elastic Container Registry (ECR) is a fully-mngd Docker container registry that makes it easy for developers to store, manage and deploy Docker container images

Amazon ECR hosts your images in a highly available and scalable architecture, allowing you to reliably deploy containers for your applications



Amazon EC2 Container Service

Amazon EC2 Container Service (ECS)

Amazon Elastic Container Service (ECS) is a highly scalable, high-performance container orchestration service that supports Docker containers and allows you to easily run and scale containerized applications on AWS

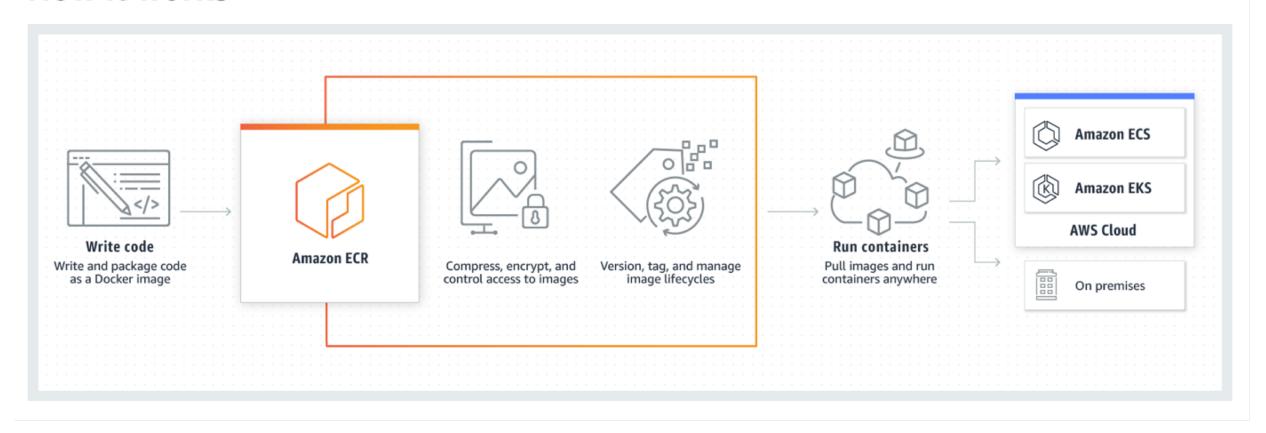
ECS is the AWS service that helps running and scaling applications in Docker containers

What is a Container?

Amazon ECS

Amazon ECR and ECS

How it works



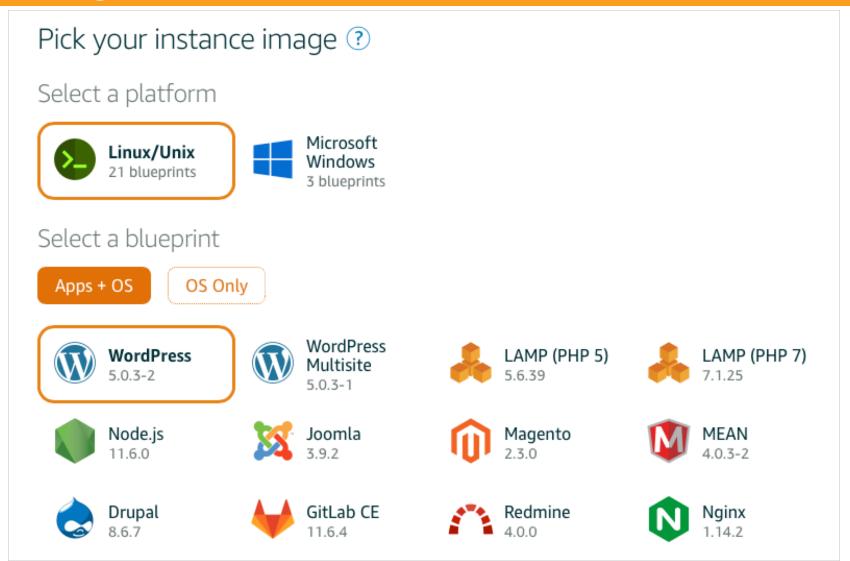
Amazon Lightsail

Amazon Lightsail

- Amazon Lightsail is the easiest way to get started with AWS for developers who just need virtual private servers
- Lightsail includes everything you need to launch your project quickly: a virtual machine, SSD-based storage, data transfer, DNS management, and a static IP – for a low, predictable price



Amazon Lightsail



Amazon Batch

Amazon Batch

Batch jobs are jobs that can run without user interaction.
Batch processing is for frequently used programs that can be run with minimal human interaction

AWS Batch enables you to run hundreds of thousands of batch computing jobs on AWS

AWS Batch dynamically provisions the optimal quantity and type of compute resources (CPU, memory) based on the volume and specific resource requirements of the jobs submitted

Amazon Elastic Beanstalk

Amazon Elastic Beanstalk

AWS Elastic Beanstalk helps you deploy, monitor and scale an application quickly and easily

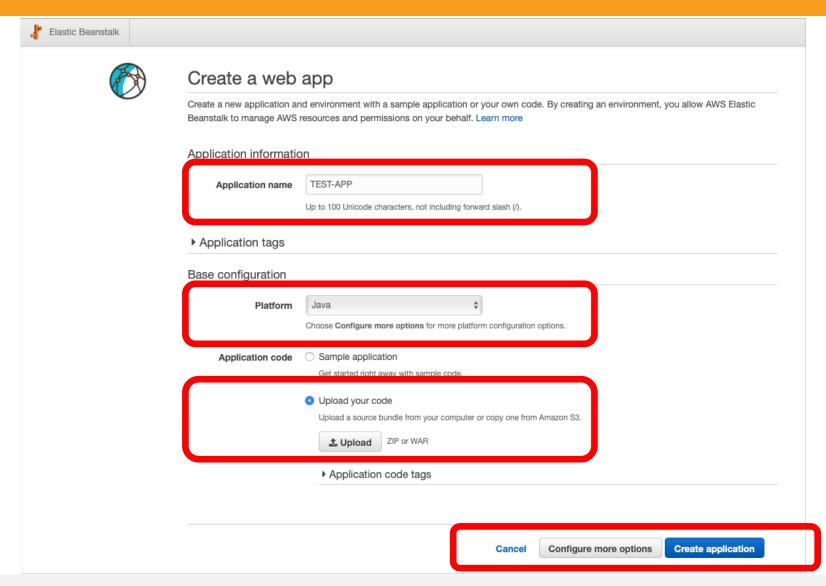
You can simply upload your code written in Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker and run it on servers like IIS, Apache and others

Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing and auto scaling to app health monitoring

Amazon Elastic

Beanstalk

Amazon Elastic Beanstalk



AWS Certified Cloud Practitioner

Amazon Lambda

Amazon Lambda

AWS Lambda lets you run code without provisioning or managing servers

You pay only for the compute time you consume—there is no charge when your code is not running



Just upload your code, and Lambda takes care of everything required to run and scale your code

Amazon Lambda



Auto Scaling

Auto Scaling

AWS Auto Scaling can increase the number of Amazon EC2 instances during traffic demand spikes to maintain performance and decrease capacity during traffic silence time for cost reduction

AWS Auto Scaling can also help to ensure you are running the desired number of EC2 instances



Scale up or down automatically based on your config

Thank you