

# Provisioning Services

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## What is provisioning?

The allocation or creation of resources and services to a customer.

AWS Provisioning Services are responsible for setting up and then managing those AWS Services



**Elastic Beanstalk (EB)** is a **Platform as a Service (PaaS) to easily deploy web-applications**. EB will provision various AWS services, including EC2, S3, Simple Notification Service (SNS), CloudWatch, EC2 Auto Scaling Groups, and Elastic Load Balancers. If you have ever used **Heroku** it the AWS equivalent



**AWS OpsWorks** is a **configuration management service** that also provides managed instances of the open-source configuration managed software **Chef** and **Puppet**.



CHEF



puppet



**CloudFormation** is a **infrastructure modeling and provisioning service**. Automate the provisioning of AWS Services by writing CloudFormation templates in either **JSON** or **YAML files**. This is known as **Infrastructure as Code (IaC)**



**AWS QuickStarts** are pre-made packages that can launch and configure your AWS compute, network, storage, and other services required to deploy a workload on AWS



**AWS Marketplace** - a **digital catalogue** of **thousands** of software listings from independent software vendors you can use to find, buy, test, and deploy software.



**AWS Amplify** is a **mobile and web-application framework**, that will provision multiple AWS services as your backend.



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## **AWS App Runner**

A fully managed service that makes it easy for developers to quickly deploy containerized web applications and APIs, at scale and with no prior infrastructure experience required



## **AWS Copilot**

AWS Copilot is a command line interface (CLI) that enables customers to quickly launch and easily manage containerized applications on AWS.



## **AWS CodeStar**

provides a unified user interface, enabling you to easily manage your software development activities in one place. Easily launch common types of stacks eg. LAMP



## **AWS Cloud Development Kit (CDK)**

An Infrastructure as Code (IaC) tool. Allows you to use your favourite programming language. Generates out CloudFormation templates as the means for IaC.



# AWS Elastic Beanstalk

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## What is Platform as a Service? (PaaS)

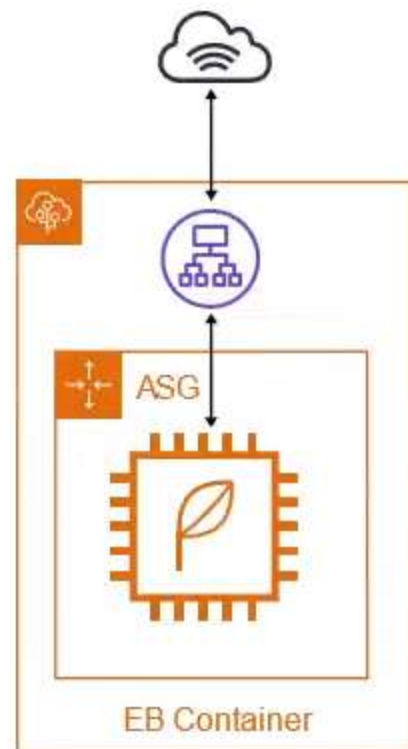
a PaaS allows customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app



**Elastic Beanstalk** is a PaaS for deploying web-applications with little-to-no knowledge of the underlying infrastructure so you can focus on writing application code instead of setting up an automated deployment pipeline and DevOps tasks. Choose a platform, upload your code and it runs with little knowledge of the infrastructure.

**Not Recommended for “Production” applications**

↑  
AWS is talking about enterprise, large companies.



Elastic Beanstalk is powered by a CloudFormation template **setups** for you:

- Elastic Load Balancer
- Autoscaling Groups
- RDS Database
- EC2 Instance preconfigured (or custom ) platforms
- Monitoring (CloudWatch, SNS)
- In-Place and Blue/Green deployment methodologies
- Security (Rotates passwords)
- Can run **Dockerized** environments

✓ -- Choose a platform --

Generic

- Docker
- Multi-container Docker

Preconfigured

- Elastic Beanstalk Packer Builder
- Go
- .NET (Windows/IIS)
- Java
- Node.js
- Ruby
- PHP
- Python
- Tomcat

Preconfigured – Docker

- GlassFish
- Go
- Python