

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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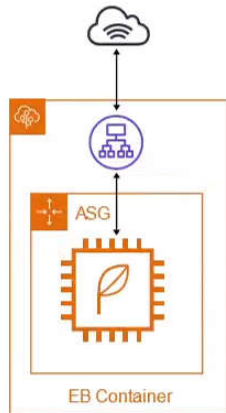
What is Platform as a Service? (PaaS)

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