



Elastic Beanstalk



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Introduction to Elastic Beanstalk

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Introduction to Elastic Beanstalk

What is Elastic Beanstalk ?



- AWS Elastic Beanstalk is an easy-to-use service for **deploying and scaling web applications and services**.
- It is a kind of orchestration service offered by Amazon Web Services used to set up your application architecture.

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The diagram illustrates the layers of cloud computing models, showing how the number of layers managed by the user decreases as the model moves from On-Premises to Software as a Service.

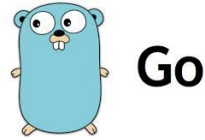
On-Premises	Infrastructure as a Service	Platform as a Service	Function as a Service	Software as a Service
Applications	Applications	Applications	Applications	Applications
Data	Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware	Middleware
O/S	O/S	O/S	O/S	O/S
Virtualization	Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking	Networking

Legend:

- You Manage (Teal)
- Other Manages (Orange)

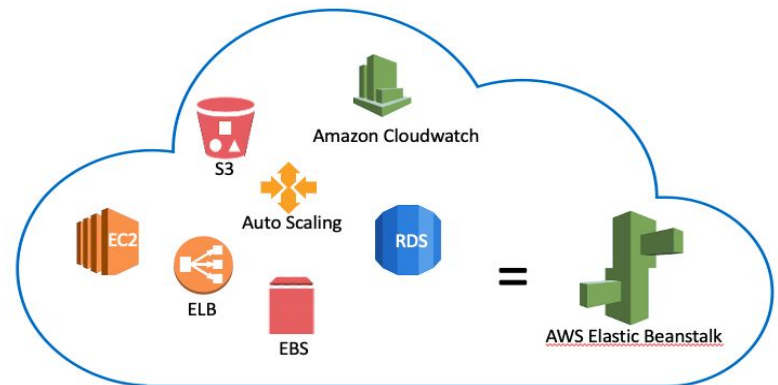
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What is Elastic Beanstalk ?



Introduction to Elastic Beanstalk

Why AWS Elastic Beanstalk?



- Automates the details of capacity provisioning,
- Load balancing,
- Auto scaling,
- Application deployment,

Introduction to Elastic Beanstalk

Why AWS Elastic Beanstalk?

- Automates management tasks:

- Monitoring,
- Version deployment,
- Health check
- Log



Monitoring



Health Check



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Basic Concepts of Elastic Beanstalk

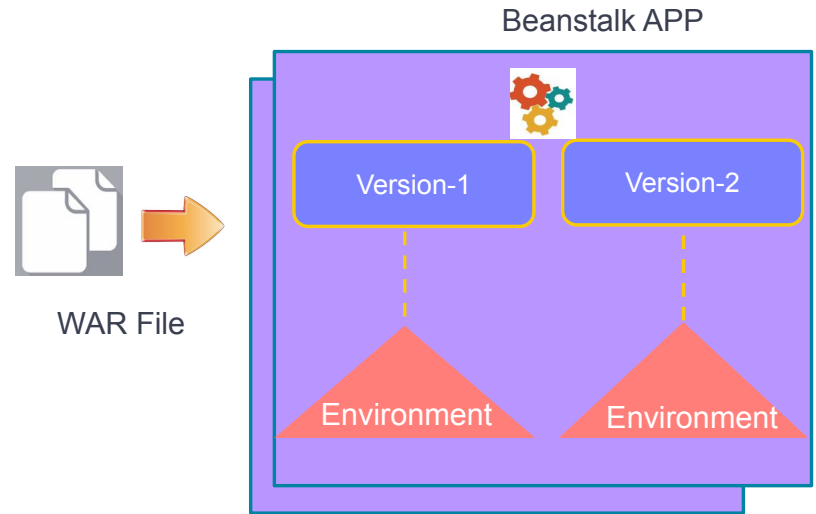
Basic Concepts of Elastic Beanstalk

Application

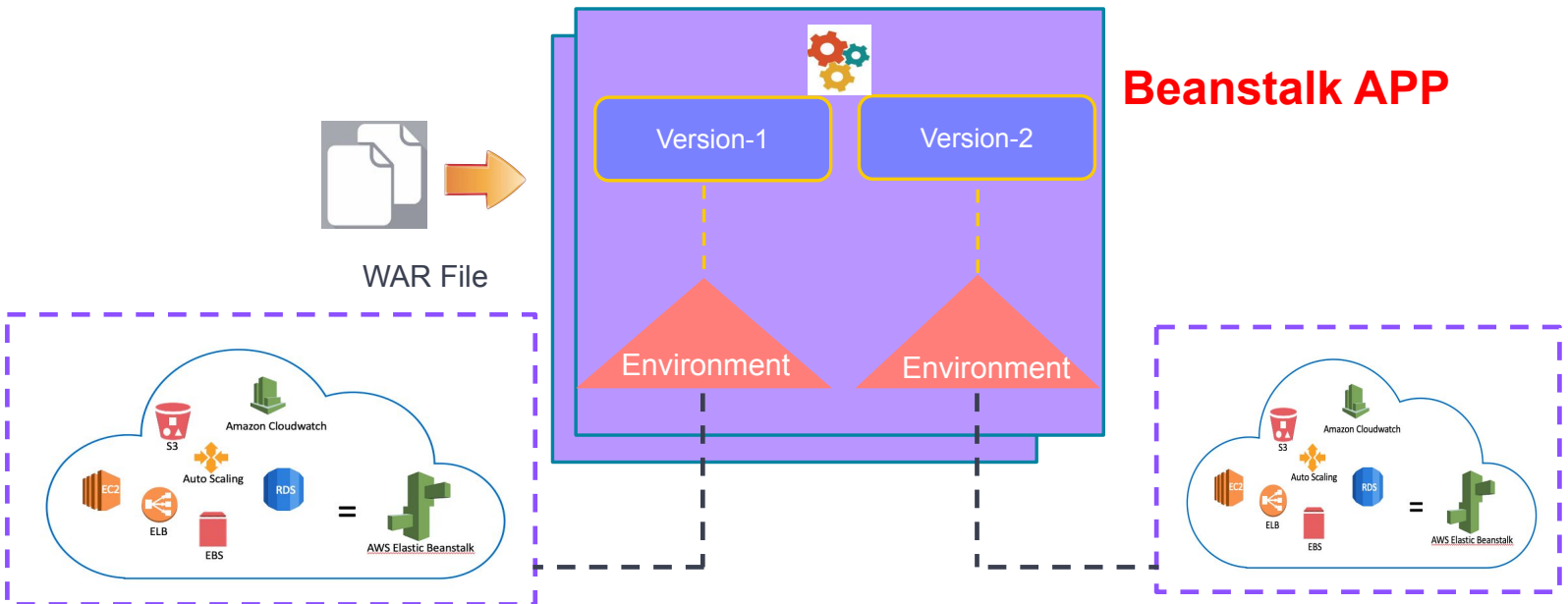
- Application is a logical collection of Elastic Beanstalk components. It covers all components.

Application version

- Specific, labeled iteration of deployable code for a web application.



Basic Concepts of Elastic Beanstalk

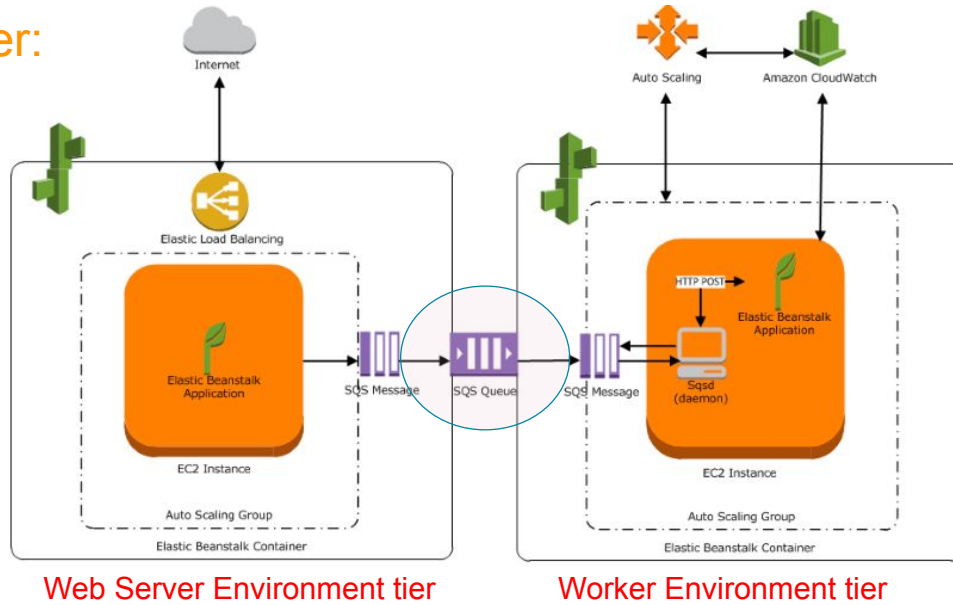


Environment

- An environment is a collection of AWS resources running an application version. Each environment runs only one application version at a time.

Basic Concepts of Elastic Beanstalk

Environment Tier:



- The environment tier designates the type of application that the environment runs, and determines what resources Elastic Beanstalk provisions to support it.

Basic Concepts of Elastic Beanstalk

Platform:

Supported platform versions

- Docker
- Multicontainer Docker
- Preconfigured Docker
- Go
- Java SE
- Tomcat
- .NET Core on Linux
- .NET on Windows Server
- Node.js
- PHP
- Python
- Ruby

Platform

Platform

Java

Platform branch

Corretto 11 running on 64bit Amazon Linux 2

Platform version

3.0.3 (Recommended)

Summary of Terms / Concepts



Concept	What it Means
Application	Logical collection of Elastic Beanstalk components required for a working deployment
Application Version	A labelled version of an application (e.g. 1.0, 1.1, 2.0, etc...)
Environment	A set of AWS resources running a specific application version (e.g. DEV, TEST, PROD)
Environment Tier	The type of application that an environment runs (either Web or Worker)
Platform	Combination of OS, programming language, web server - i.e. the "technology stack"

Basic Concepts of Elastic Beanstalk



Elastic Beanstalk Command Line Interface (EB CLI)

```
osvaldo — zsh — 80x24
user@clarusway-MacBook~ % eb --version
EB CLI 3.19.4 (Python 3.9.4)
```




Let's get our hands dirty!

- Creating Application



THANKS!
Any questions

