

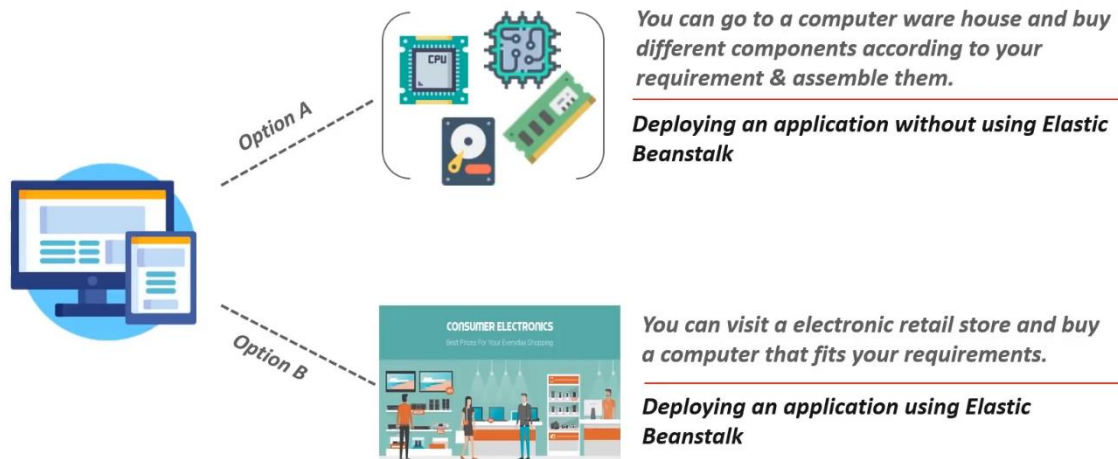
## Elastic Beanstalk

### What is Amazon Elastic Beanstalk?

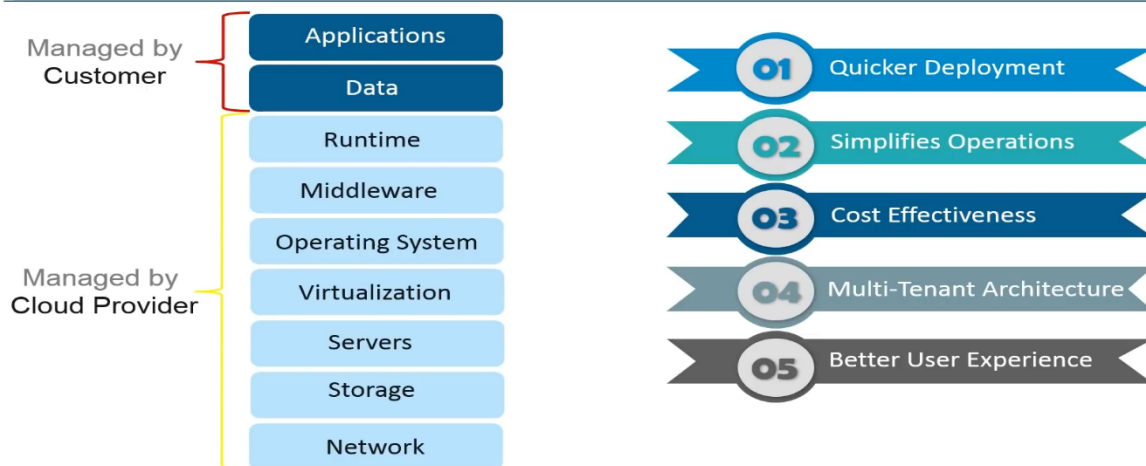
AWS Elastic Beanstalk is an PaaS service used for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js etc on familiar servers such as Apache, Nginx, Tomcat, and IIS.



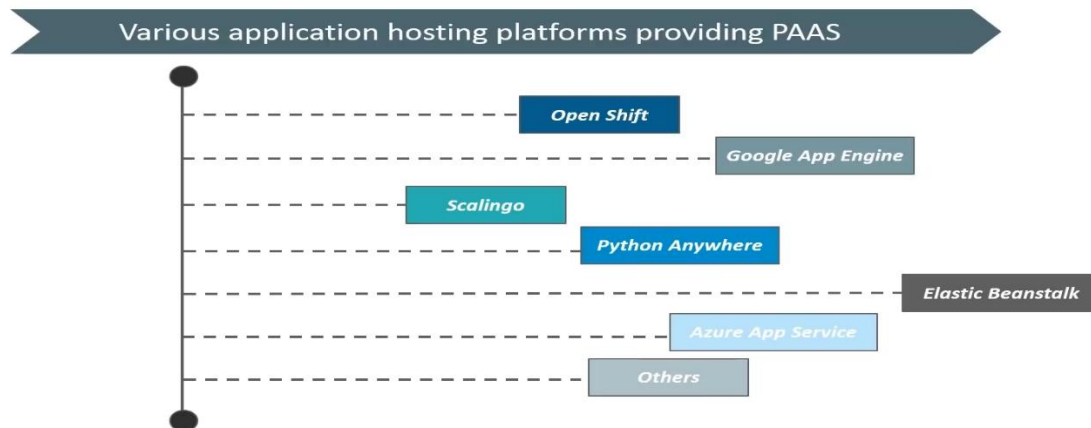
### Scenario: A Computer



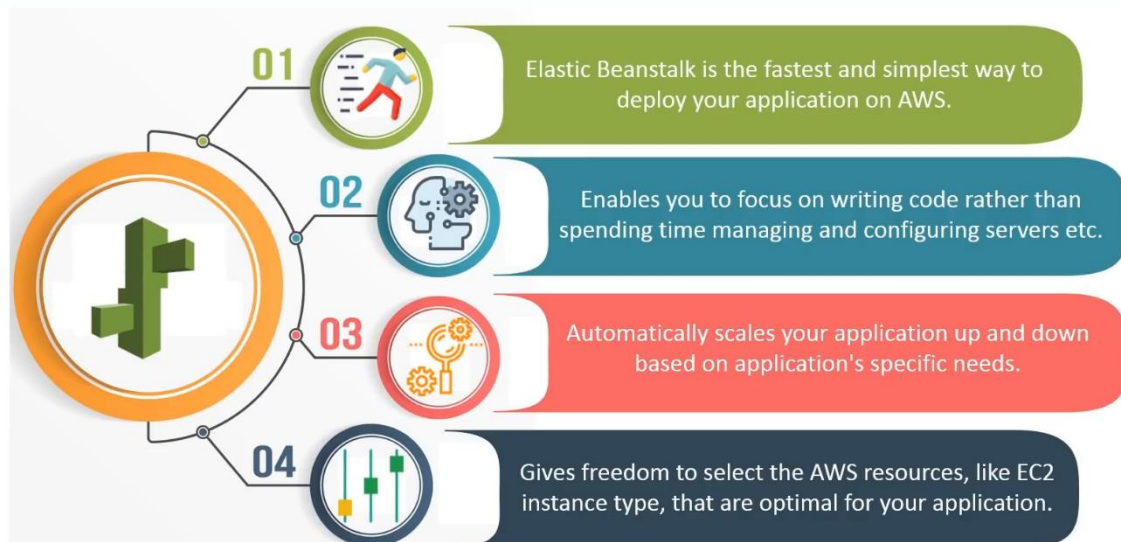
### PAAS(Platform-As-A-Service)



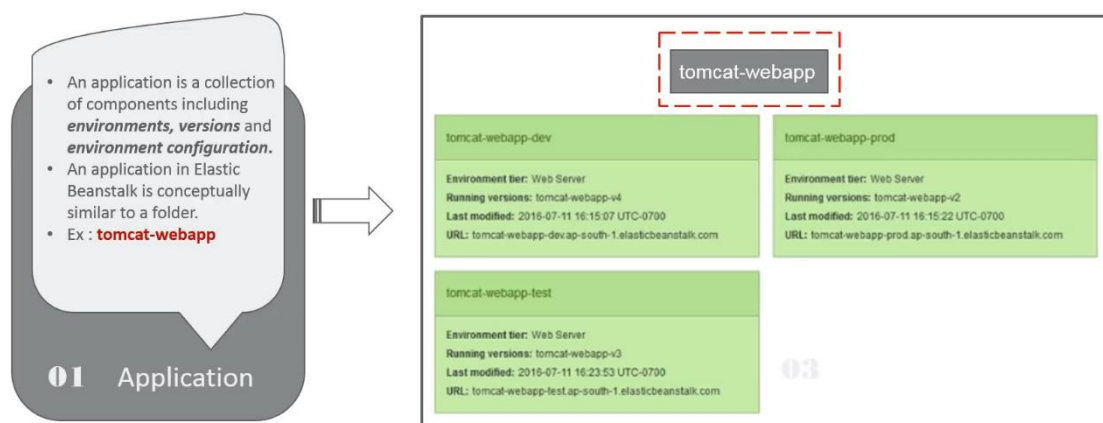
## Web Hosting Platforms



## Features of AWS Elastic Beanstalk



## Components Of Elastic Beanstalk



- An *application version* refers to a specific, labeled iteration of deployable code for a web application.
- An application version points to an Amazon S3 object that contains the deployable code such as a Java WAR file.

## 02 Application Version



- Environments within Elastic Beanstalk Application house different running version of our application.
- Each environment runs only a single application version at a time.
- Ex: **tomcat-webapp-dev**  
**tomcat-webapp-prod**

## 03 Environment

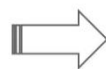


- There are two types of tier:  
**Web Server Tier,**  
**Worker Tier.**
- Web Server Tier serves HTTP requests.
- Worker Tier background-processing background tasks.

## 04 Environment Tier

- Elastic Beanstalk reports the health of a web server environment depending on how the application running in it responds to the health check.
- Uses one of **four colours** to describe status.

## 05 Environment Health



Gr

Environment is being updated

G

Passed recent health check

Y

Failed one or more checks

R

Failed three or more checks

## Web Server Environment

Web Server Environment Tier handles HTTP requests.



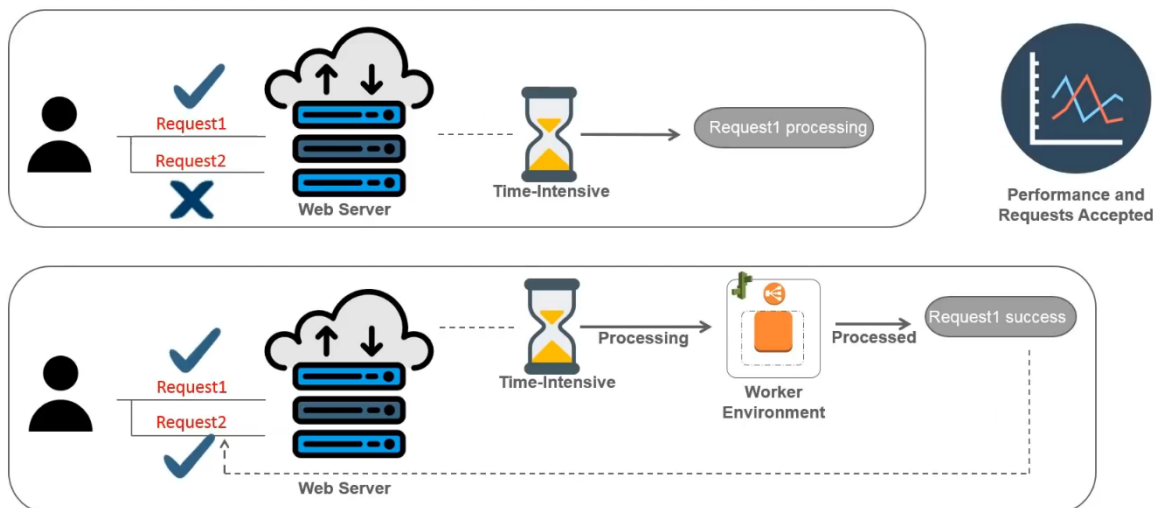
## Worker Environment



A **worker** is a process that handles background tasks during resource-intensive or time-intensive operations.

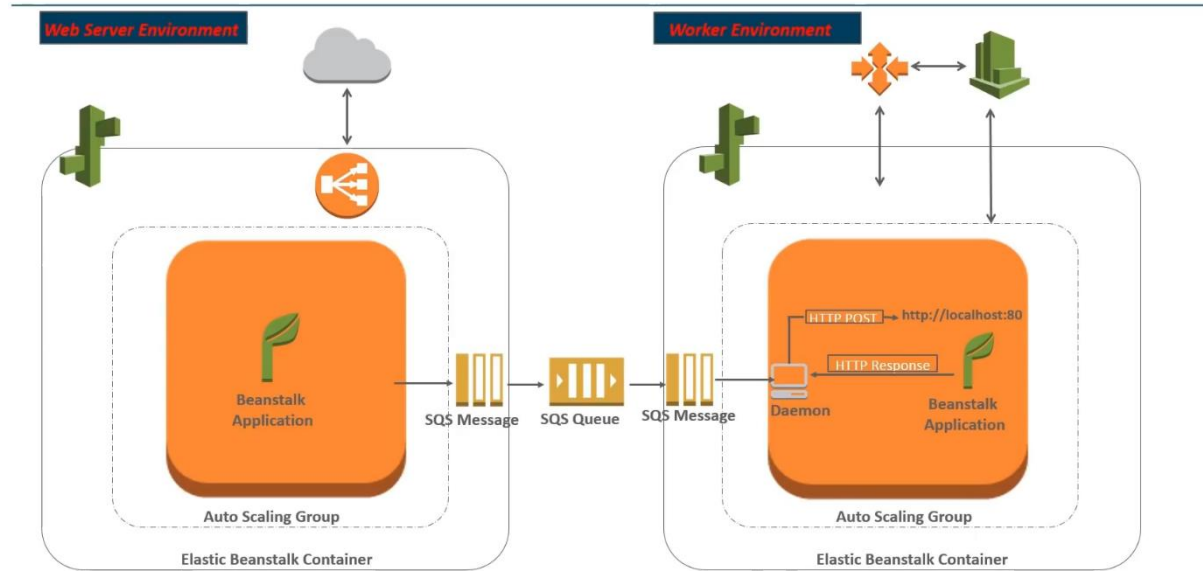
Emails Notifications  
Generates Reports  
Clean-up Databases

## Why Do We Need Worker?





## How Do These Two Environments Communicate?



## How Do These Two Environments Communicate?

