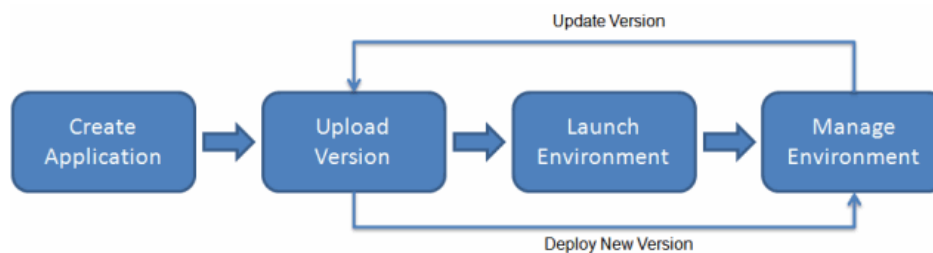




AWS Elastic Beanstalk

## ❖ AWS ELASTIC BEANSTALK:

- Elastic beanstalk is used to quickly deploy and manage applications in the AWS Cloud without having to learn about the infrastructure that runs those applications.
- It reduces management complexity without restricting choice or control.
- You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring.
- Elastic Beanstalk supports applications developed in Go, Java, .NET, Node.js, PHP, Python, and Ruby.
- Beanstalk makes it even easier for developers to quickly deploy and manage applications.
- Three architecture Models:
  - **Single Instance deployment:** Good for dev
  - **LB + ASG:** Great for production or pre-production web applications
  - **ASG only:** Great for non-web apps in production (workers, etc.)
- The following diagram illustrates the workflow of Elastic Beanstalk.



## FEATURES:

- Wide selection of application platforms
- Variety of application deployment options
- Monitoring
- Updates and management
- Scaling
- Customization

## USECASES:

- Quickly launch web applications
- Create mobile API backends for your applications
- Replatform critical business applications

➤ **BEANSTALK SUPPORTED PLATFORMS:**

- Go
- Java with Tomcat
- Node.js
- Python
- Packer Builder
- Multicontainer Docker
- Java SE
- .NET on Windows Server with IIS
- PHP
- Ruby
- Single Container Docker
- Preconfigured Docker

**NOTE:** If not supported, you can write your custom platform (advanced).

➤ **ENVIRONMENT INFORMATION:**

**EVENTS:** Shows information or error messages from the Elastic Beanstalk service and from other services whose resources this environment uses.

**HEALTH:** Shows the status of and detailed health information about the Amazon EC2 instances running your application.

**LOGS:** Retrieve and download logs from the EC2 in your environment. The retrieved logs are available for 15 minutes.

**MONITORING:** Statistics for the environment, such as average latency and CPU utilization.

**ALARMS:** Shows the alarms that you configured for environment metrics. You can add, modify or delete alarms on this page.

**MANAGED UPDATES:** Shows information about upcoming and completed managed platform updates and instance replacement.

**TAGS:** Tags are key-value pairs that are applied to your environment.

➤ **PRICING:**

- There is no additional charge for AWS Elastic Beanstalk. You pay for AWS resources (instances or buckets) you create to store and run your application.
- You only pay for what you use, as you use it; there are no minimum fees and no upfront commitments.