

# Amazon Elastic Beanstalk

# What is Elastic Beanstalk?

Elastic Beanstalk is a managed service offered from AWS for deploying web applications/ worker processes simply through an easy AWS console on different servers like IIS/Tomcat/Apache etc.

- It is Easy to begin.
- An easier way for developers to quickly deploy and manage applications in the AWS cloud.
- Upload and launch applications to AWS in minutes
- Retain control over the underlying infrastructure.

## Elastic Beanstalk



Managed AWS Service



Deploy Cloud Apps &  
Services at Scale



Any region  
Any locale

# Supporting Platforms

- Java,
- .NET
- PHP
- Node.js
- Python
- Ruby
- Go
- Docker

# Key Components

- Application
- Application Version
- Environment
- Environment Configuration
- Configuration Template

# Key Features/ Advantages

## Automatically handles

- Details of capacity provisioning
- Load balancing
- Scaling
- Application health monitoring

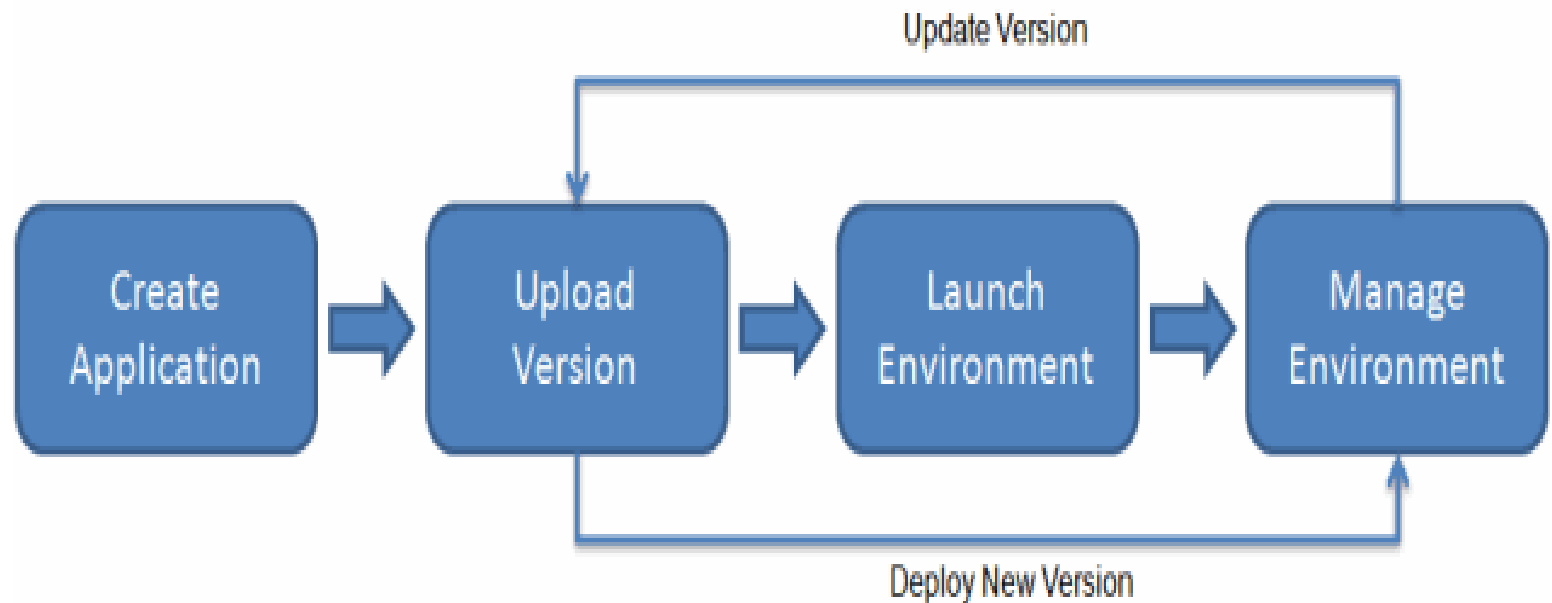
Scalable Architecture

Automated Deployments

On Demand  
Test & Staging Environments

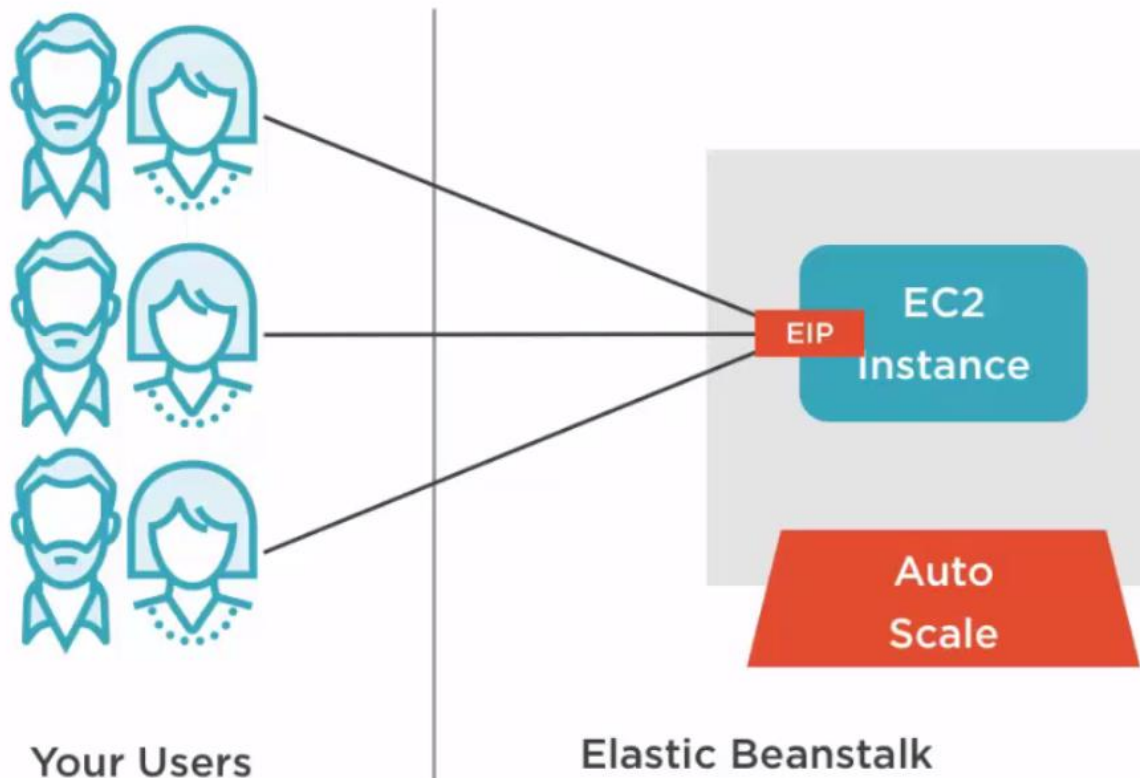
Automated Infrastructure  
Updates

# Process flow



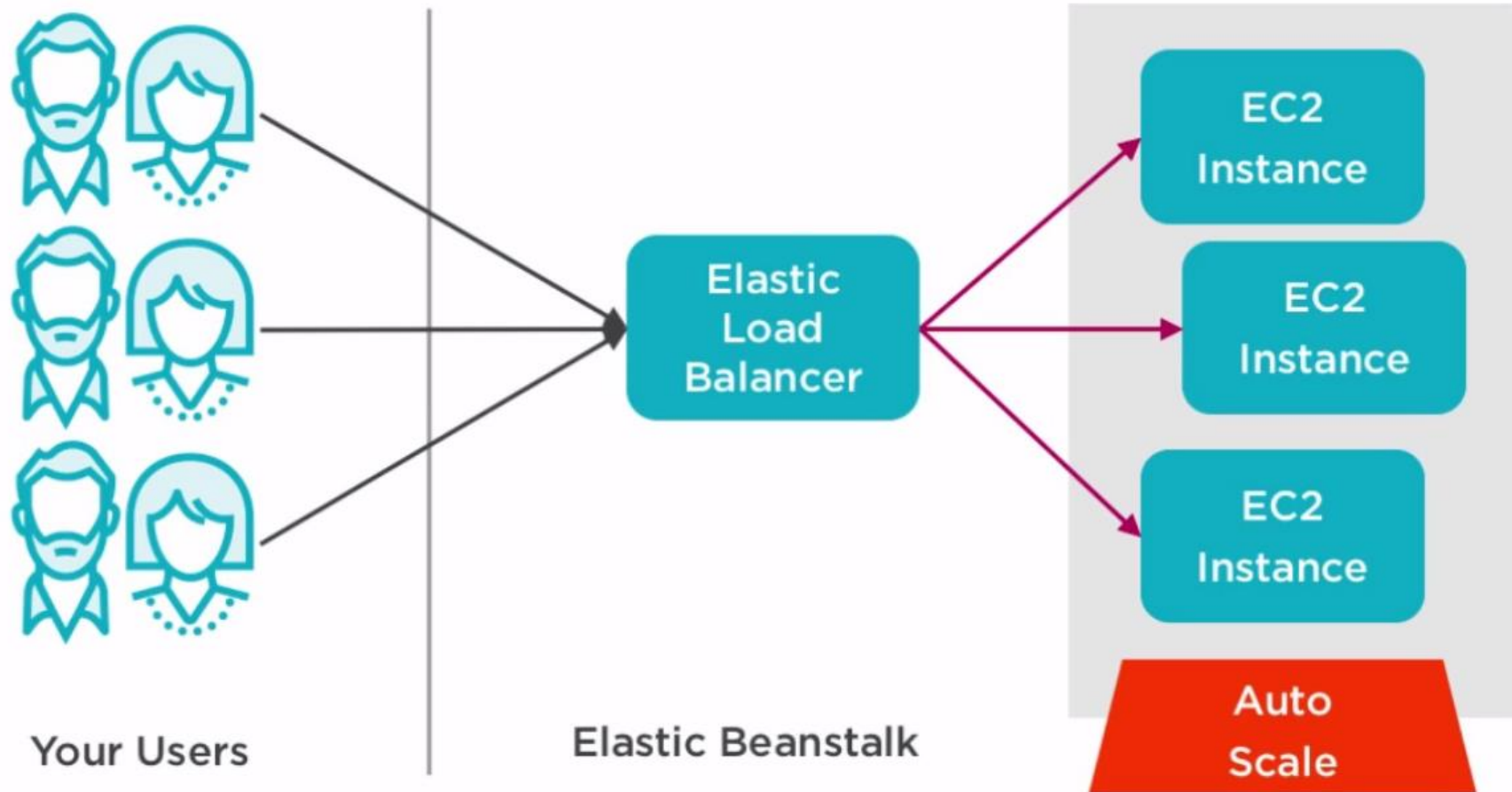
# Typical Elastic Beanstalk Architecture

Single Instance



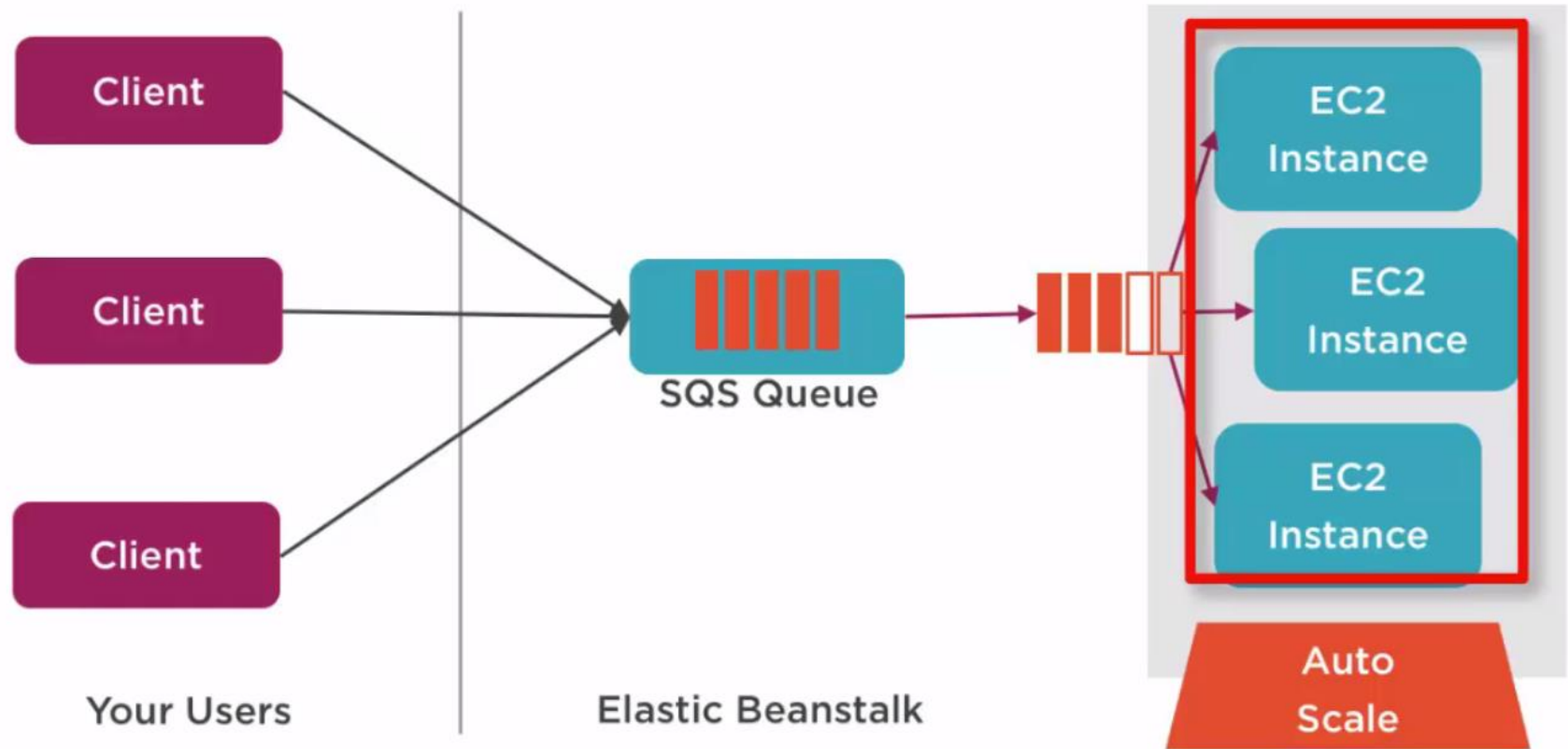


# Typical Elastic Beanstalk Architecture

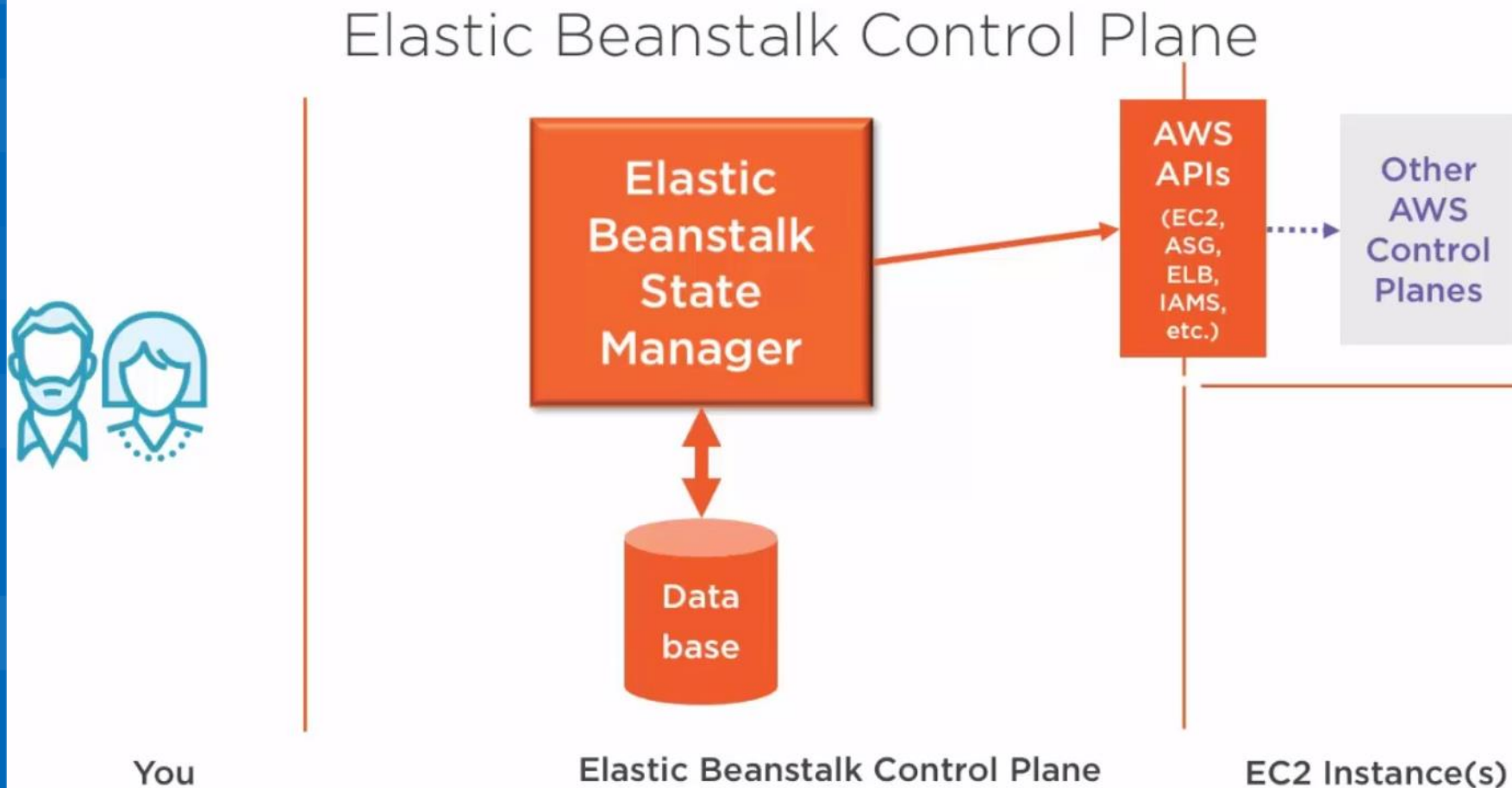


# Typical Elastic Beanstalk Architecture

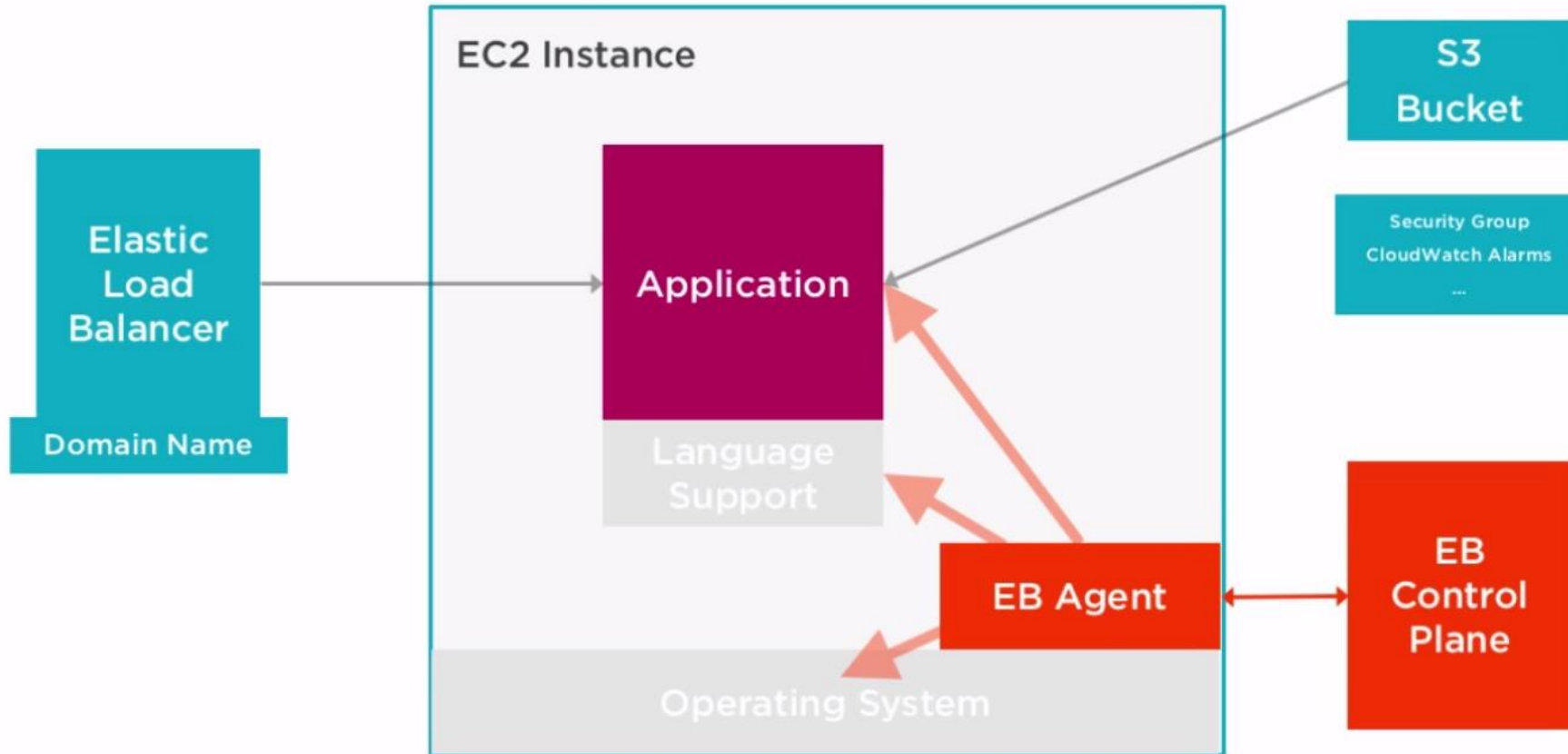
## Worker Environment



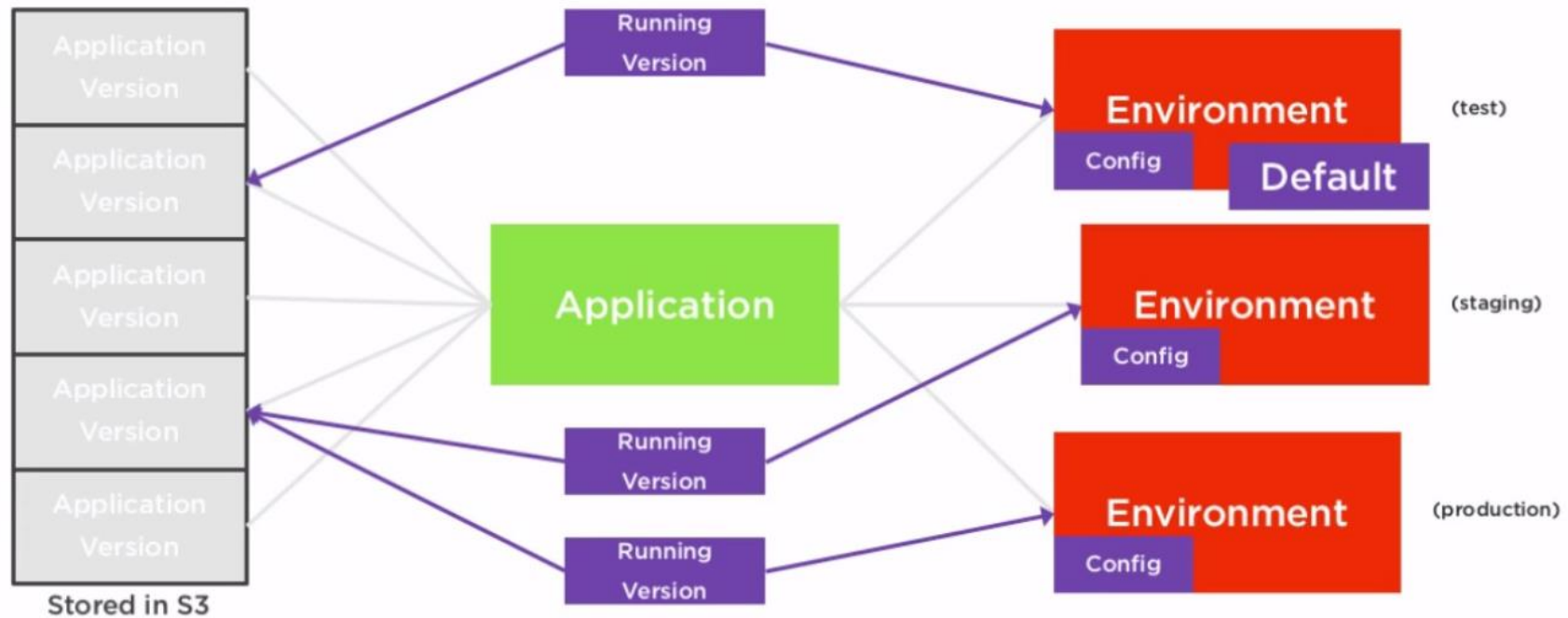
# Typical Elastic Beanstalk Architecture



# Inside Each EC2 instance



# Elastic Beanstalk Terminology



# Creating Environment

The screenshot displays the AWS Elastic Beanstalk console interface. The browser address bar shows the URL: <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/application/overview?applicationName=My%20First%20Elastic%20Beanstalk%20Application>. The top navigation bar includes 'Services', 'Resource Groups', and a user profile 'Gurjeet.Sehra @ sterling-dev' with location 'Ohio' and a 'Support' link. The left sidebar shows the 'Elastic Beanstalk' service selected, with a dropdown menu for 'My First Elastic Beanstalk Application'. The 'Environments' option in this menu is highlighted with a red box. The main content area is titled 'Elastic Beanstalk Application' and features an 'Actions' button. Two environment cards are visible: 'Default-Environment' and 'Default-Environment (Terminated)'. Both cards show details such as 'Environment tier: Web Server', 'Running versions: Sample Application', 'Last modified: 2017-07-06 14:55:06 UTC+0530', and a URL.

Services ▾ Resource Groups ▾

Elastic Beanstalk My First Elastic Beanstalk Application ▾

Default-Environment  
Default-Environment  
Environments  
Application Versions  
Saved Configurations

Environments

Application versions

Saved configurations

Elastic Beanstalk Application

Actions ▾

Default-Environment

Environment tier: Web Server  
Running versions:  
Last modified: 2017-07-06 14:57:44 UTC+0530  
URL: Default-Environment.behmigcxac.us-east-2.elasticbeanstalk.com

Default-Environment (Terminated)

Environment tier: Web Server  
Running versions: Sample Application  
Last modified: 2017-07-06 14:55:06 UTC+0530  
URL: Default-Environment.umxc8stc9f.us-east-2.elasticbeanstalk.com

Create New Environment

# Creating Environment - Step 1

← → ↻ Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application> ☆

Services ▾ Resource Groups ▾ ✎

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

**i Try the new design** ×

We're testing a new design for the environment creation wizard. [Opt in now](#) to try it and let us know what you think!

**New Environment**

- Environment Type
- Application Version
- Environment Info
- Additional Resources
- Configuration Details
- Environment Tags
- Permissions
- Review Information

## New Environment

AWS Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

**Web Server Environment**

Provides resources for an AWS Elastic Beanstalk web server in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)

**Create web server**

**Worker Environment\***

Provides resources for an AWS Elastic Beanstalk worker application in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)


**Create worker**


[Cancel](#)

# Creating Environment - Step 2

← → ↻ Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application> ☆ us

**Services** ▾ **Resource Groups** ▾ ☆

 Elastic Beanstalk | My First Elastic Beanstalk Application ▾ [Create New Environment](#)

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New Environment

**Environment Type**

Application Version

Environment Info

Additional Resources

Configuration Details

Environment Tags

Permissions

Review Information

## Environment Type

Choose the platform and type of environment to launch.

Predefined configuration: .NET (Windows/IIS) ▾ [Looking for a different platform? Let us know.](#)

AWS Elastic Beanstalk will create an environment running IIS 10.0 on 64bit Windows Server 2016 v1.2.0. [Change platform version.](#)

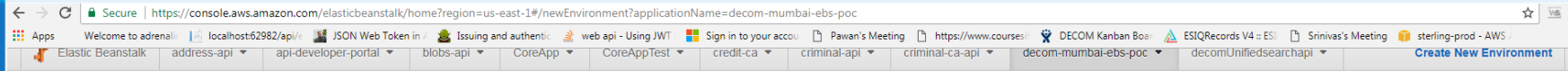
Environment type: Load balancing, auto scaling ▾ [Learn more](#)

Single instance  
Load balancing, auto scaling

Cancel Previous Next



# Creating Environment - Step 3



## Try the new design

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- New Environment
- Environment Type
- Application Version**
- Environment Info
- Additional Resources
- Configuration Details
- Environment Tags
- Permissions
- Review Information

## Application Version

Select a source for your application version.

Source: ☒ Existing application version

Sample Application

☐ Upload your own ([Learn more](#))

[Choose File](#) No file chosen

☐ S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

## Deployment Preferences

Elastic Beanstalk will update your application in batches so as to avoid downtime when deploying.

Deployment policy:  [Learn more](#)

Ignore health check:

Batch size: ☒ Percentage

% of the fleet at a time

☐ Fixed

# Creating Environment - Step 3

## Deployment Options

All At Once

Rolling Deployments

Rolling Deployments  
w/additional Batch

Immutable

# Creating Environment - Step 4

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application>

Services ▾ Resource Groups ▾

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

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New Environment

Environment Type

Application Version

**Environment Info**

Additional Resources

Configuration Details

Environment Tags

Permissions

Review Information

## Environment Information

Enter your environment information.

Environment name:

Environment URL:

Description:  Optional: 200 character maximum

[Cancel](#) [Previous](#) [Next](#)

# Creating Environment - Step 5

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application>

Services ▾ Resource Groups ▾ ★

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

**Try the new design**

We're testing a new design for the environment creation wizard. [Opt in now](#) to try it and let us know what you think!

New Environment

Environment Type

Application Version

Environment Info

**Additional Resources**

Configuration Details

Environment Tags

Permissions

Review Information

## Additional Resources

Select additional resources for this environment.

☐ Create an RDS DB Instance with this environment [Learn more](#)

☐ Create this environment inside a VPC [Learn more](#)

[Cancel](#) [Previous](#) [Next](#)

# Creating Environment - Step 5

## Create RDS with Elastic Beanstalk

### Advantages

RDS db created when Elastic Beanstalk Environment is created

Credentials automatically created

Database is destroyed when environment is destroyed

Useful for development and staging environments.

### Disadvantages

Database can only be used by single environment

Deleting environment deletes data

Not recommended for production environments.

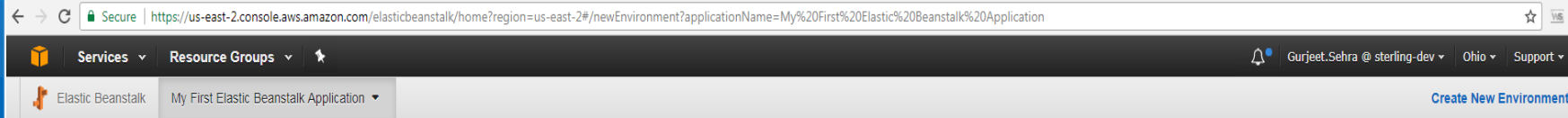
# Creating Environment - Step 5

Setting up  
Production  
Database



1. Create database manually
2. Setup necessary credentials
3. Launch Elastic Beanstalk environment
4. Add environment variables for configuration
5. Use environment variables in application

# Creating Environment - Step 6



## Try the new design

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New Environment

Environment Type

Application Version

Environment Info

Additional Resources

**Configuration Details**

Environment Tags

Permissions

Review Information

## Configuration Details

Modify the following settings or click Next to accept the default configuration. [Learn more.](#)

Instance type:

Determines the processing power of the servers in your environment.

EC2 key pair:  [Refresh](#)

Optional: Enables remote login to your instances.

Email address:  Optional: Get notified about any major changes to your environment.

## Root Volume (Boot Device)

Root volume type:

Determines the type of storage volume to attach to instances.

Root volume size: ☐ Enables you to specify the size of the root volume.

GiB

Number of gibibytes of the root volume attached to each instance. Must be between 10 and 16384 for Provisioned IOPS (SSD) and General Purpose (SSD) root volumes and between 8 and 1024 for other root volumes.

# Creating Environment - Step 7

Secure

https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application

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Services

Resource Groups

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Ohio

Support

Elastic Beanstalk

My First Elastic Beanstalk Application

Create New Environment

Try the new design

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New Environment

Environment Type

Application Version

Environment Info

Additional Resources

Configuration Details

**Environment Tags**

Permissions

Review Information

Environment Tags

You can specify tags (key-value pairs) for your Environment. You can add up to 47 unique key-value pairs for each Environment.

|    | Key (128 characters maximum)             | Value (256 characters maximum)       |   |
|----|--|--------------------------------------|---|
| 1. | <input type="text" value="Application"/> | <input type="text" value="Decomm"/>  | ✕ |
| 2. | <input type="text" value="Environment"/> | <input type="text" value="Staging"/> | ✕ |
| 3. | <input type="text" value="Owner"/>       | <input type="text" value="Decom"/>   | ✕ |
| 4. | <input type="text"/>                     | <input type="text"/>                 |   |

44 remaining

Cancel

Previous

Next



# Creating Environment - Step 8

Secure | https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newEnvironment?applicationName=My%20First%20Elastic%20Beanstalk%20Application

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Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

Try the new design

✕

We're testing a new design for the environment creation wizard. [Opt in now](#) to try it and let us know what you think!

New Environment

Environment Type

Application Version

Environment Info

Additional Resources

Configuration Details

Environment Tags

**Permissions**

Review Information

## Permissions

Select an instance profile and service role for your AWS Elastic Beanstalk environment.

An instance profile is an IAM role configured for use with EC2 instances. The instances in your Elastic Beanstalk use the credentials provided by the instance profile to communicate with AWS.

A service role allows the Elastic Beanstalk service to monitor environment resources on your behalf. See [Roles and Instance Profiles](#) in the Elastic Beanstalk developer guide for details.

Instance profile:

aws-elasticbeanstalk-ec2-role ▾

Service role:

aws-elasticbeanstalk-service-ro ▾

Cancel

Previous

Next

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# Creating Environment - Step 9

New Environment

Environment Type

Application Version

Environment Info

Additional Resources

Configuration Details

Environment Tags

Permissions

Review Information

Review

Review the following information. Then click "Launch."

New Environment

Tier Web Server

Environment Type

Container type 64bit Windows Server 2016 v1.2.0 running IIS 10.0

Environment type Single instance

Application Version

Application source Sample Application

Environment Info

Environment name decom-mumbai-eks-poc

Environment URL http://decom-mumbai-eks-poc.us-east-2.elasticbeanstalk.com

Description EBS Training POC

Configuration Details

Instance type t2.micro

Key pair decom-dev

Email address (default)

Root volume type (default)

Root volume size (default)

Root volume IOPS

Application health

# Creating Environment - Step 10

Secure | https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard?applicationName=My%20First%20Elastic%20Beanstalk%20Application&environmentId=e-ampa3tehir

Services ▾ Resource Groups ▾ ★

Elastic Beanstalk My First Elastic Beanstalk Application ▾

Create New Environment

Info

Elastic Beanstalk is now creating your environment. When it has finished it will be running Sample Application.

All Applications > My First Elastic Beanstalk Application > decom-mumbai-eb-s-poc (Environment ID: e-ampa3tehir, URL: decom-mumbai-eb-s-poc.us-east-2.elasticbeanstalk.com) Actions ▾

Dashboard

Configuration

Logs

Monitoring

Alarms

Events

Tags

↻ Elastic Beanstalk is launching your environment.

[View Events](#)

Overview Refresh

↻

Health

Grey

Causes

Running Version

Upload and Deploy

⚙️

Configuration

64bit Windows Server 2016 v1.2.0  
running IIS 10.0

Change

Recent Events Show All

| Time                         | Type | Details   |
|------------------------------|------|---|
| 2017-07-06 16:06:02 UTC+0530 | INFO | Using elasticbeanstalk-us-east-2-882038671278 as Amazon S3 storage bucket for environment data. |
| 2017-07-06 16:06:02 UTC+0530 | INFO | createEnvironment is starting.  |

# Creating Environment - Final step

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard?applicationName=My%20First%20Elastic%20Beanstalk%20Application&environmentId=e-ampa3tehir>

Services ▾ Resource Groups ▾ ★

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

**Info**

Elastic Beanstalk is now creating your environment. When it has finished it will be running Sample Application.

[All Applications](#) > [My First Elastic Beanstalk Application](#) > [decom-mumbai-ebs-poc](#) (Environment ID: e-ampa3tehir, URL: [decom-mumbai-ebs-poc.us-east-2.elasticbeanstalk.com](http://decom-mumbai-ebs-poc.us-east-2.elasticbeanstalk.com)) [Actions ▾](#)

Dashboard

Configuration

Logs


Monitoring

Alarms

Events

Tags

Overview [Refresh](#)



**Health**


Green

[Causes](#)

**Running Version**

Sample Application

[Upload and Deploy](#)



**Configuration**

64bit Windows Server 2016 v1.2.0  
running IIS 10.0

[Change](#)

Recent Events [Show All](#)

| Time                         | Type | Details  |
|------------------------------|------|--|
| 2017-07-06 16:10:25 UTC+0530 | INFO | Successfully launched environment: decom-mumbai-ebs-poc    |
| 2017-07-06 16:09:32 UTC+0530 | INFO | Environment health has been set to GREEN                   |
| 2017-07-06 16:09:12 UTC+0530 | INFO | UpdateAppVersion Completed                                 |
| 2017-07-06 16:09:11 UTC+0530 | INFO | Started Application Update                                 |
| 2017-07-06 16:08:12 UTC+0530 | INFO | Adding instance 'i-0d4cc9cb2cc46b23f' to your environment. |

# Creating Application

Secure | https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/applications

Services ▾

Resource Groups ▾

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Create New Application

Learn More

[Get Started using Elastic Beanstalk](#)  
[What Is AWS Elastic Beanstalk?](#)  
[How Does AWS Elastic Beanstalk Work?](#)

Featured

[Create your own custom platform](#)

Command Line Interface (v3)

[Installing the AWS EB CLI](#)  
[EB CLI Command Reference](#)

If you want to use a command line to create, manage, and scale your Elastic Beanstalk applications, please use the Elastic Beanstalk Command Line Interface (EB CLI).

Get Started

```
$ mkdir HelloWorld
$ cd HelloWorld
$ eb init -p PHP
$ echo "Hello World" > index.html
$ eb create dev-env
$ eb open
```

To deploy updates to your applications, use 'eb deploy'.

All Applications

My First Elastic Beanstalk Application

Filter by Application Name:

Actions ▾

decom-mumbai-eb-poc

Environment tier: Web Server  
Running versions: Sample Application  
Last modified: 2017-07-06 16:10:25 UTC+0530  
URL: decom-mumbai-eb-poc.us-east-2.elasticbeanstalk.com

# Creating Application

← → ↻ Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/newApplication> ☆

Services ▾ Resource Groups ▾ ★

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Application](#)

**Try the new design**

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**Application Info**  
New Environment

## Application Information

To create a new application, enter the details of your application.

Application name:  Must be less than 100 characters and cannot contain a /

Description:  Optional.

[Cancel](#) [Next](#)

# Upload/Deploy Application

There are 2 ways to Deploy application (.Net Application)

- Build Package file from VS CMD and Upload AWS Console
- Using AWS SDK installed on Visual Studio

# Upload/Deploy Application

(Build Package file from VS CMD )

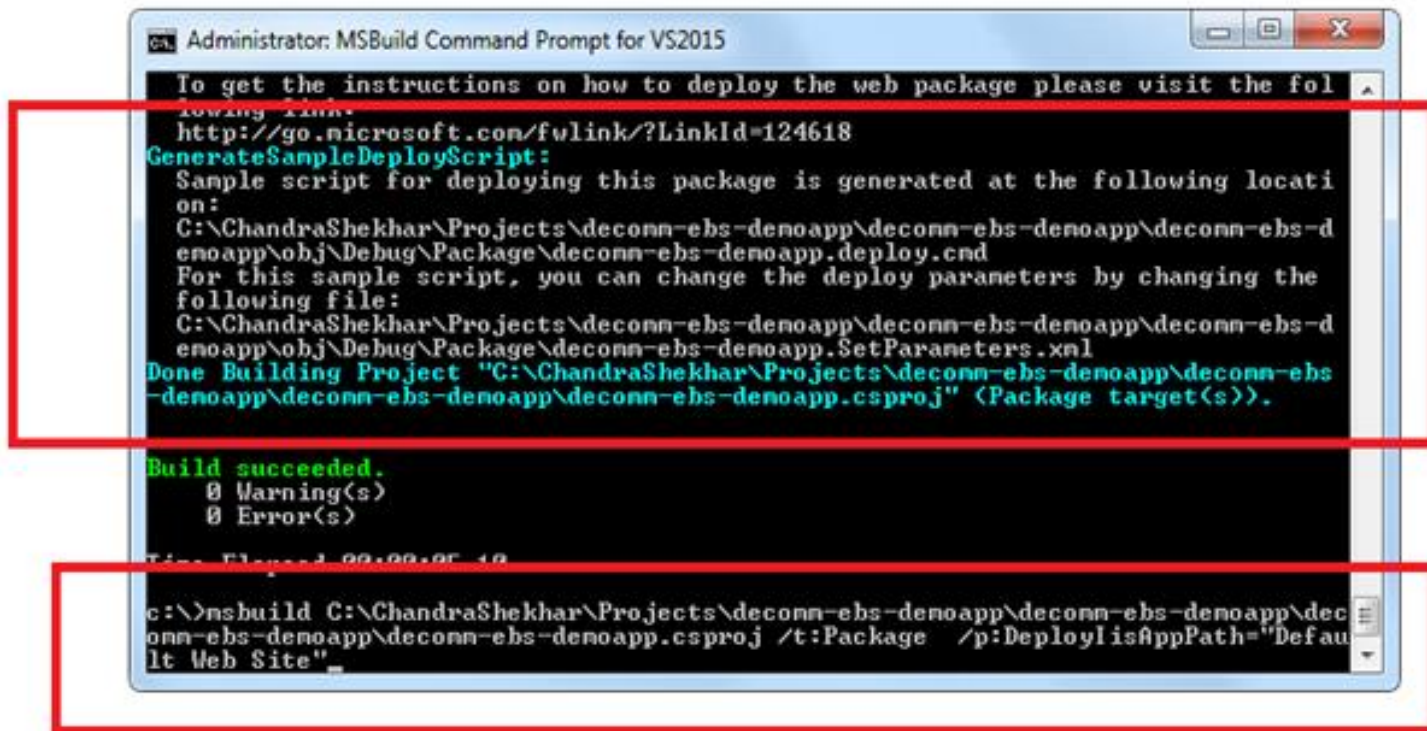
Process:

- Create Web Application in VS and build solution.
- After successful building of application create a package file from the below command using **MSBuild VS Command Prompt/VS Command Prompt**
- **Command** : *C:/> msbuild <path of project file .csproj> /t:Package /p:DeployIisAppPath="Default Web Site"*
- This will create a package file with **.zip** in the project's \obj\Debug\Package folder.
- This .zip file need to be upload to AWS console.



# Upload/Deploy Application

(Build Package file from VS CMD )



The screenshot shows a Windows Command Prompt window titled "Administrator: MSBuild Command Prompt for VS2015". The window contains the following text:

```
To get the instructions on how to deploy the web package please visit the fol
lowing link:
http://go.microsoft.com/fwlink/?LinkId=124618
GenerateSampleDeployScript:
Sample script for deploying this package is generated at the following locati
on:
C:\ChandraShekhar\Projects\deconn-ebs-demoapp\deconn-ebs-demoapp\deconn-ebs-d
emoapp\obj\Debug\Package\deconn-ebs-demoapp.deploy.cmd
For this sample script, you can change the deploy parameters by changing the
following file:
C:\ChandraShekhar\Projects\deconn-ebs-demoapp\deconn-ebs-demoapp\deconn-ebs-d
emoapp\obj\Debug\Package\deconn-ebs-demoapp.SetParameters.xml
Done Building Project "C:\ChandraShekhar\Projects\deconn-ebs-demoapp\deconn-ebs
-demoapp\deconn-ebs-demoapp\deconn-ebs-demoapp.csproj" (Package target(s)).

Build succeeded.
    0 Warning(s)
    0 Error(s)

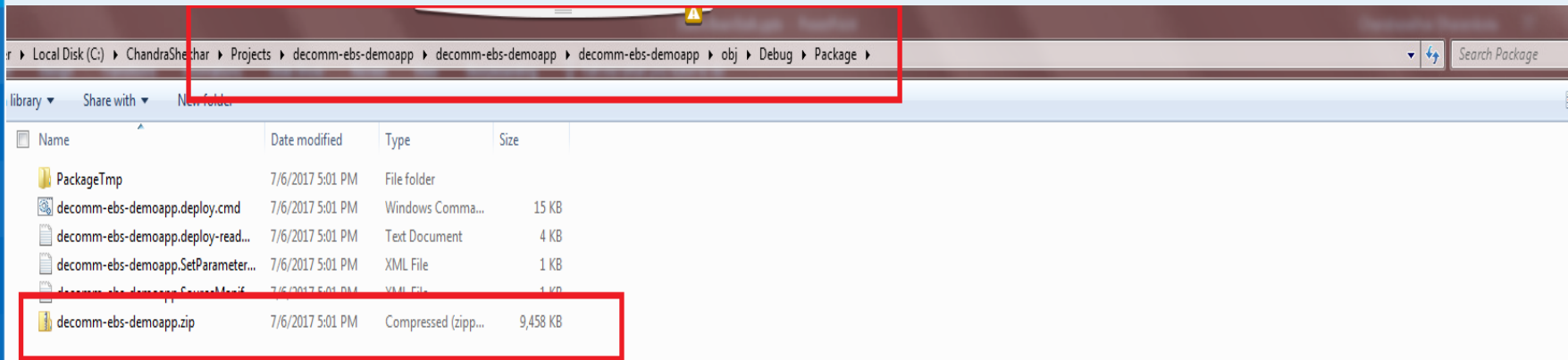
Time Elapsed 00:00:05.10

c:\>nsbuild C:\ChandraShekhar\Projects\deconn-ebs-demoapp\deconn-ebs-demoapp\dec
onn-ebs-demoapp\deconn-ebs-demoapp.csproj /t:Package /p:DeployIsAppPath="Defau
lt Web Site"
```

Two red rectangular boxes are drawn over the screenshot. The first box highlights the section from "GenerateSampleDeployScript:" down to "Done Building Project". The second box highlights the command prompt input at the bottom: "c:\>nsbuild C:\ChandraShekhar\Projects\deconn-ebs-demoapp\deconn-ebs-demoapp\deconn-ebs-demoapp.csproj /t:Package /p:DeployIsAppPath='Default Web Site'".

# Upload/Deploy Application

(Build Package file from VS CMD )



# Upload/Deploy Application

(Build Package file from VS CMD )

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard?applicationName=My%20First%20Elastic%20Beanstalk%20Application&environmentId=e-ampa3tehir>


Services ▾ Resource Groups ▾

Elastic Beanstalk ▾ My First Elastic Beanstalk Application ▾ [Create New Environment](#)

## All Applications > My First Elastic Beanstalk Application

[Dashboard](#)  
[Configuration](#)  
[Logs](#)  
[Monitoring](#)  
[Alarms](#)  
[Events](#)  
[Tags](#)

### Overview




Upload and Deploy

To deploy a previous version, go to the [Application Versions](#) page.

Upload application:  decomm-ebc-demoapp.zip

Version label:

Actions ▾



### Configuration

64bit Windows Server 2016 v1.2.0  
running IIS 10.0

### Recent Events

| Time                         | Type | Details  |
|------------------------------|------|--|
| 2017-07-06 16:10:25 UTC+0530 | INFO | Successfully launched environment: decomm-mumbai-ebc-poc   |
| 2017-07-06 16:09:32 UTC+0530 | INFO | Environment health has been set to GREEN                   |
| 2017-07-06 16:09:12 UTC+0530 | INFO | UpdateAppVersion Completed                                 |
| 2017-07-06 16:09:11 UTC+0530 | INFO | Started Application Update                                 |
| 2017-07-06 16:08:12 UTC+0530 | INFO | Adding instance 'i-0d4cc9cb2cc46b23f' to your environment. |

# Upload/Deploy Application

## (Build Package file from VS CMD) - Deployment Successful.

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard?applicationName=My%20First%20Elastic%20Beanstalk%20Application&environmentId=e-ampa3tehir>


Services ▾ Resource Groups ▾ ★

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

[All Applications](#) > [My First Elastic Beanstalk Application](#) > [decom-mumbai-eb-s-poc](#) (Environment ID: e-ampa3tehir, URL: [decom-mumbai-eb-s-poc.us-east-2.elasticbeanstalk.com](http://decom-mumbai-eb-s-poc.us-east-2.elasticbeanstalk.com)) [Actions ▾](#)


[Dashboard](#)  
[Configuration](#)  
[Logs](#)  
[Monitoring](#)  
[Alarms](#)  
[Events](#)  
[Tags](#)

### Overview



**Health**  
**Green**  
[Causes](#)

**Running Version**  
Decom EBS Demo V1  
[Upload and Deploy](#)



**Configuration**  
64bit Windows Server 2016 v1.2.0  
running IIS 10.0  
[Change](#)

### Recent Events

[Show All](#)

| Time                         | Type | Details  |
|------------------------------|------|--|
| 2017-07-06 17:57:48 UTC+0530 | INFO | Environment update completed successfully.                     |
| 2017-07-06 17:57:48 UTC+0530 | INFO | New application version was deployed to running EC2 instances. |
| 2017-07-06 17:57:34 UTC+0530 | INFO | UpdateAppVersion Completed                                     |
| 2017-07-06 17:57:33 UTC+0530 | INFO | Started Application Update                                     |
| 2017-07-06 17:57:01 UTC+0530 | INFO | Deploying new version to instance(s).                          |

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# Upload/Deploy Application

(Build Package file from VS CMD)

## View Deployed application

- After successful deployment, browse the below URL to preview the deployed application.
- The below URL is created by AWS with environment as subdomain name.
- URL Format: <http://{environmentname}.us-east-2.elasticbeanstalk.com/>
- In Our Demo : <http://decom-mumbai-ebs-poc.us-east-2.elasticbeanstalk.com/>

# Upload/Deploy Application

## (Build Package file from VS CMD) - Deployment Successful.

Secure | <https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard?applicationName=My%20First%20Elastic%20Beanstalk%20Application&environmentId=e-ampa3tehir>


Services ▾ Resource Groups ▾

Elastic Beanstalk My First Elastic Beanstalk Application ▾ [Create New Environment](#)

All Applications > My First Elastic Beanstalk Application > decom-mumbai-eb-s-poc ( Environment ID: e-ampa3tehir, URL: [decom-mumbai-eb-s-poc.us-east-2.elasticbeanstalk.com](https://decom-mumbai-eb-s-poc.us-east-2.elasticbeanstalk.com) ) [Actions](#)


Dashboard  
Configuration  
Logs  
Monitoring  
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Overview [Refresh](#)



**Health**  
**Green**  
[Causes](#)

**Running Version**  
Decom EBS Demo V1  
[Upload and Deploy](#)



**Configuration**  
64bit Windows Server 2016 v1.2.0  
running IIS 10.0  
[Change](#)

Recent Events [Show All](#)

| Time                         | Type | Details  |
|------------------------------|------|--|
| 2017-07-06 17:57:48 UTC+0530 | INFO | Environment update completed successfully.                     |
| 2017-07-06 17:57:48 UTC+0530 | INFO | New application version was deployed to running EC2 instances. |
| 2017-07-06 17:57:34 UTC+0530 | INFO | UpdateAppVersion Completed                                     |
| 2017-07-06 17:57:33 UTC+0530 | INFO | Started Application Update                                     |
| 2017-07-06 17:57:01 UTC+0530 | INFO | Deploying new version to instance(s).                          |

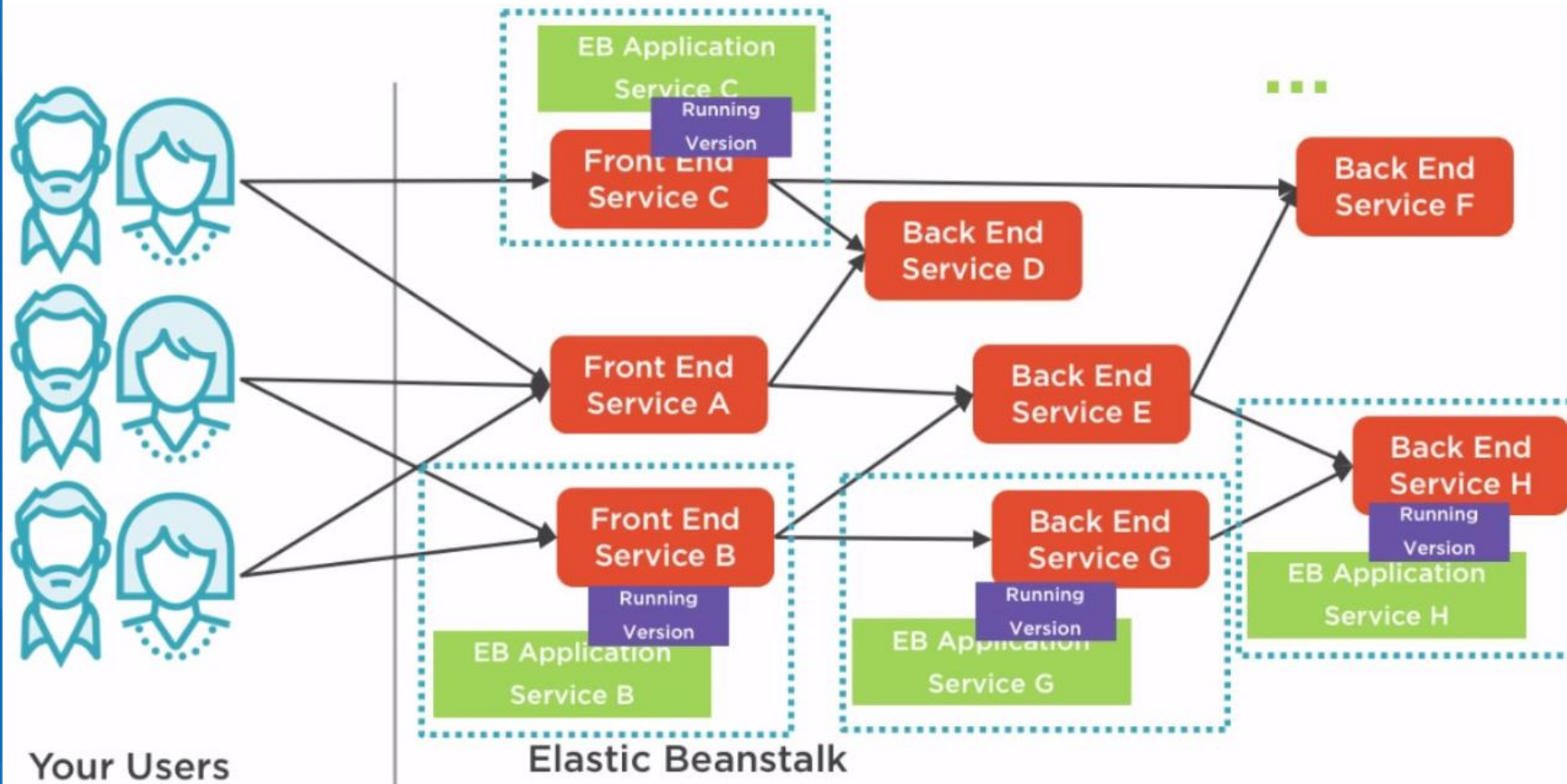
# Customize Application Domain URL

- Using AWS Route 53 we can map our own domain name to Elastic Beanstalk.
- Documentation available here : [AWS Route 53](#)

The screenshot displays the AWS Route 53 console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile 'Gurjeet.Sehra @ sterling-dev'. The main content area is divided into four panels: 'DNS management' (showing 23 Hosted zones), 'Traffic management' (with a 'Create policy' button), 'Availability monitoring' (showing 1 Health check), and 'Domain registration' (with a 'Register domain' button). Below these panels, the 'Register domain' section is active, showing a form to 'Find and register an available domain, or transfer your existing domains to Route 53.' The form includes a text input for 'Type a domain name', a dropdown for '.com - \$12.00', and a 'Check' button. Below the form is an 'Alerts' section with a table header: 'Resource', 'Status', and 'Last update'. The table currently shows 'No alerts to display'. On the right side, there is a 'More info' section with links to 'Developer Guide', 'FAQs', 'Pricing', and 'Forum - DNS and health checks'. At the bottom right, a 'Service health' section shows 'Amazon Route 53' as 'Service is operating normally.' with a link to the 'AWS service health dashboard'.

# Multiple Environment Application

- We can deploy the same application in Multiple environments with same version or different version.





# Pricing

- There is no additional charge for AWS Elastic Beanstalk.
- Pay for AWS resources (e.g. EC2 instances or S3 buckets) that 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.

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# Summary

- Elastic Beanstalk helps us to easily deploy updates to our .Net application while also leveraging Amazon's powerful infrastructure.
- Enhancing the deployment process with containers — like Docker — will add even more versatility.
- If we're looking to reduce system operations and just focus on what you're developing, Elastic Beanstalk is a solid choice.

# References

- <http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/Welcome.html>
- <https://aws.amazon.com/documentation/elastic-beanstalk/>
- <http://jayendrapatil.com/aws-elastic-beanstalk/>

# Thank you