

Assignment -3

Working with Elastic Beanstalk

Deploying a sample application Elastic Beanstalk

The image shows two screenshots of the AWS Elastic Beanstalk console. The top screenshot is the 'Welcome' page, and the bottom screenshot is the 'Create a web app' page.

Top Screenshot: Welcome Page

- URL:** `ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/welcome`
- Header:** AWS logo, Services dropdown, Search bar, User profile (Saroja), Location (Mumbai), and Support link.
- Left Sidebar:** Elastic Beanstalk (selected), Environments, Applications, Change history.
- Main Content:**
 - Compute:** Amazon Elastic Beanstalk End-to-end web application management.
 - Get started:** Easily deploy your web application in minutes. [Create Application](#)
 - Pricing:** There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets and Amazon EC2 instances.
 - How it works:** You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates. [Learn more](#)

Bottom Screenshot: Create a web app Page

- URL:** `ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/gettingStarted`
- Header:** Same as the top screenshot.
- Left Sidebar:** Same as the top screenshot.
- Breadcrumbs:** Elastic Beanstalk > Getting started
- Main Content:**
 - Create a web app:** Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. [Learn more](#)
 - Application information:**
 - Application name:**
 - Up to 100 Unicode characters, not including forward slash (/).
 - Application tags:**
 - Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. [Learn more](#)
 - Table with columns: Key, Value, and a Remove tag button.

← → ↺ ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/gettingStarted

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Elastic Beanstalk ×

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Platform

Platform
Python

Platform branch
Python 3.8 running on 64bit Amazon Linux 2

Platform version
3.3.4 (Recommended)

Application code

☒ Sample application
Get started right away with sample code.

☐ Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.

Cancel Configure more options Create application

Feedback English (US)

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← → ↺ ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/gettingStarted

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Elastic Beanstalk > Getting started

Configure Myfirstbeanstalk-env

Presets

Start from a preset that matches your use case or choose *Custom configuration* to unset recommended values and use the service's default values.

Configuration presets

☒ Single instance (Free Tier eligible)
☐ Single instance (using Spot instance)
☐ High availability
☐ High availability (using Spot and On-Demand instances)
☐ Custom configuration

Platform

Python 3.8 running on 64bit Amazon Linux 2/3.3.4

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Monitoring

Health reporting system: Enhanced
Health event log streaming: disabled
Edit

Managed Updates

Managed updates: enabled
Weekly update window: Fri:13:00 UTC
Edit

Notifications

Email address: --
Edit

Network

This environment is not part of a VPC.

Edit

Database

Engine: --
Instance class: --
Storage (GB): --
Multi-AZ: --
Edit

Tags

Tags: none
Edit

Cancel Previous Create app

← → ↺

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/launchEnvironment?applicationName=Myfirstbeanstalk&environmentId=e-pkkhefphfg

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Elastic Beanstalk

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Environments

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Change history

▼ Myfirstbeanstalk

Application versions

Saved configurations

▶ Myfirstbeanstalk-env

Elastic Beanstalk > Environments > Myfirstbeanstalk-env

📘 Creating Myfirstbeanstalk-env

This will take a few minutes. .

4:44pm Using elasticbeanstalk-ap-south-1-996856931400 as Amazon S3 storage bucket for environment data.

4:44pm createEnvironment is starting.

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Saved configurations

▼ Myfirstbeanstalk-env

Go to environment 📄

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Elastic Beanstalk > Environments > Myfirstbeanstalk-env

Myfirstbeanstalk-env

Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com 📄 (e-pkkhefphfg)

Application name: Myfirstbeanstalk

🔄 Refresh

Actions ▾

Health

Running version

Platform

🟢

Ok

Causes

Sample Application

Upload and deploy

🐍

Python 3.8 running on 64bit Amazon Linux 2/3.4

Change

Recent events

Show all

< 1 >

Time

Type

Details

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Events:

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Elastic Beanstalk > Environments > Myfirstbeanstalk-env > Events

Events

Severity

TRACE

< 1 >

Time	Type	Details
2021-08-03 16:47:19 UTC+0530	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 35 seconds ago and took 2 minutes.
2021-08-03 16:47:19 UTC+0530	INFO	Added instance [i-08f7e677f465f3a85] to your environment.
2021-08-03 16:46:51 UTC+0530	INFO	Successfully launched environment: Myfirstbeanstalk-env
2021-08-03 16:46:50 UTC+0530	INFO	Application available at Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com.
2021-08-03 16:46:20 UTC+0530	INFO	Instance deployment completed successfully.
2021-08-03 16:46:18 UTC+0530	INFO	Instance deployment successfully generated a 'Procfile'.
2021-08-03 16:46:14 UTC+0530	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
2021-08-03 16:45:20 UTC+0530	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 12 seconds). There are no instances.

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Elastic Beanstalk > Environments > Myfirstbeanstalk-env > Events

Events

Severity

TRACE

< 1 >

2021-08-03 16:47:19 UTC+0530	INFO	Added instance [i-08f7e677f465f3a85] to your environment.
2021-08-03 16:46:51 UTC+0530	INFO	Successfully launched environment: Myfirstbeanstalk-env
2021-08-03 16:46:50 UTC+0530	INFO	Application available at Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com.
2021-08-03 16:46:20 UTC+0530	INFO	Instance deployment completed successfully.
2021-08-03 16:46:18 UTC+0530	INFO	Instance deployment successfully generated a 'Procfile'.
2021-08-03 16:46:14 UTC+0530	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
2021-08-03 16:45:20 UTC+0530	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 12 seconds). There are no instances.
2021-08-03 16:45:09 UTC+0530	INFO	Created EIP: 3.109.115.124
2021-08-03 16:44:54 UTC+0530	INFO	Created security group named: awseb-e-pkkhefphfg-stack-AWSEBSecurityGroup-Z9UDBV4PERZY
2021-08-03 16:44:29 UTC+0530	INFO	Using elasticbeanstalk-ap-south-1-996856931400 as Amazon S3 storage bucket for environment data.
2021-08-03 16:44:28 UTC+0530	INFO	createEnvironment is starting.

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➤ Environments:

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Change history

Recent environments

Myfirstbeanstalk-env

All environments

Filter results matching the display values

Environment name	Health	Application name	Date created	Last modified	URL	Running versions
Myfirstbeanstalk-env	Ok	Myfirstbeanstalk	2021-08-03 16:44:29 UTC+0530	2021-08-03 16:46:51 UTC+0530	Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com	Sample Application

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ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environments

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All environments

Filter results matching the display values

Application name	Date created	Last modified	URL	Running versions	Platform	Platform state	Tier name
Myfirstbeanstalk	2021-08-03 16:44:29 UTC+0530	2021-08-03 16:46:51 UTC+0530	Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com	Sample Application	Python 3.8 running on 64bit Amazon Linux 2	Supported	WebServer

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environments

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Recent environments

- Myfirstbeanstalk-env

All environments

Filter results matching the display values

Environment name	Health	Application name	Date created	La m
Myfirstbeanstalk-env	Ok	Myfirstbeanstalk	2021-08-03 16:44:29 UTC+0530	20 03 16 UT

Actions

- Load configuration
- Save configuration
- Swap environment URLs
- Clone environment
- Abort current operation
- Restart app server(s)
- Rebuild environment
- Terminate environment

Create a new environment

Running versions

Sample Application

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environments

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Recent environments

- Myfirstbeanstalk-env

Confirm Environment Termination

Permanently terminate **Myfirstbeanstalk-env**? This action can't be undone.

- Tier: Web Server
- Platform: Python 3.8 running on 64bit Amazon Linux 2/3.3.4
- Version: Sample Application
- Last modified: 2021-08-03 16:46:51 UTC+0530

If you proceed with this action, the following will happen:

- Myfirstbeanstalk-env.eba-fgh2axus.ap-south-1.elasticbeanstalk.com** will be released.
- Any additional resources associated with your Elastic Beanstalk environment **will be destroyed**.

Enter the name of the environment to confirm:

Myfirstbeanstalk-env

Cancel Terminate

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Elastic Beanstalk > Applications

All applications

Filter results matching the display values

Application name	Environments	Date created	Last modified	
Myfirstbeanstalk	Myfirstbeanstalk-env	2021-08-03 17:20:52 UTC+0530	2021-08-03 17:20:52 UTC+0530	<div>Actions</div> <div>Create environment</div> <div>Delete application</div> <div>View application versions</div> <div>View saved configurations</div> <div>Restore terminated environment</div> <div>arn:aws:elasticbeanstalk:ap-south-1:996856931400:application/Myfirstbeanstalk</div>

Create a new application

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/applications

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Elastic Beanstalk > Applications

All applications

Filter results matching the display values

Application name	Environments	Date created	Last modified	
Myfirstbeanstalk	Myfirstbeanstalk-env	2021-08-03 17:20:52 UTC+0530	2021-08-03 17:20:52 UTC+0530	<div>Actions</div> <div>Create environment</div> <div>Delete application</div> <div>View application versions</div> <div>View saved configurations</div> <div>Restore terminated environment</div> <div>arn:aws:elasticbeanstalk:ap-south-1:996856931400:application/Myfirstbeanstalk</div>

Create a new application

Confirm Application Deletion

Permanently delete Myfirstbeanstalk? This action can't be undone.

If you proceed with this action, the following environments will be terminated:

- Myfirstbeanstalk-env

Enter the name of the application to confirm:

Myfirstbeanstalk

Cancel Delete