

# Task 1

## The Project

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Asia Pacific (Mumbai)

Joel Jaison

Elastic Beanstalk

Create environment

Step 1

Configure environment

Step 2

Configure service access

Step 3 - optional

Set up networking, database, and tags

Step 4 - optional

Configure instance traffic and scaling

Step 5 - optional

Configure updates, monitoring, and logging

Step 6

Review

Configure environment

Info

Environment tier

Info

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.

☒ Web server environment

Run a website, web application, or web API that serves HTTP requests. [Learn more](#)

☐ Worker environment

Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. [Learn more](#)

Application information

Info

Application name

my\_ebwebsite

Maximum length of 100 characters.

Application tags (optional)

Environment information

Info

Choose the name, subdomain and description for your environment. These cannot be changed later.

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aws

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Asia Pacific (Mumbai)

Joel Jaison

Elastic Beanstalk

Create environment

Environment information

Info

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name

Myebwebsite-env

Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.

Domain

Leave blank for autogenerated value

.ap-south-1.elasticbeanstalk.com

Check availability

Environment description

Platform

Info

Platform type

☒ Managed platform

Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ Custom platform

Platforms created and owned by you. This option is unavailable if you have no platforms.

Platform

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Elastic Beanstalk > Create environment

Platform Info

Platform type

☒ Managed platform

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☐ Custom platform

Platforms created and owned by you. This option is unavailable if you have no platforms.

Platform

Node.js

Platform branch

Node.js 22 running on 64bit Amazon Linux 2023

Platform version

6.6.0 (Recommended)

Application code Info

☒ Sample application

☐ Existing version

Application versions that you have uploaded.

☐ Upload your code

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

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Elastic Beanstalk > Create environment

Step 1  
Configure environment

Step 2  
Configure service access

Step 3 - optional  
**Set up networking, database, and tags**

Step 4 - optional  
Configure instance traffic and scaling

Step 5 - optional  
Configure updates, monitoring, and logging

Step 6  
Review

Set up networking, database, and tags - optional Info

Virtual Private Cloud (VPC)

VPC

Launch your environment in a custom VPC instead of the default VPC. You can create a VPC and subnets in the VPC management console. [Learn more](#)

vpc-0bbdbe1779231c43b | (10.0.0.0/24) | VPC1

[Create custom VPC](#)

Instance settings

Choose a subnet in each AZ for the instances that run your application. To avoid exposing your instances to the Internet, run your instances in private subnets and load balancer in public subnets. To run your load balancer and instances in the same public subnets, assign public IP addresses to the instances. [Learn more](#)

Public IP address

Assign a public IP address to the Amazon EC2 instances in your environment.

☒ Activated

Instance subnets

Filter instance subnets

Availability Zone	Subnet	CIDR	Name
-------------------	--------	------	------

Elastic Beanstalk > Create environment

Capacity rebalancing

Specifies whether to enable the capacity rebalancing feature for Spot Instances in your Auto Scaling Group. This option is only relevant when EnableSpot is true in the aws:ec2:instances namespace, and there is at least one Spot Instance in your Auto Scaling group.

☐ Turn on capacity rebalancing

Architecture

The processor architecture determines the instance types that are made available. You can't change this selection after you create the environment. [Learn more](#)

☒ x86\_64

This architecture uses x86 processors and is compatible with most third-party tools and libraries.

☐ arm64 - new

This architecture uses AWS Graviton2 processors. You might have to recompile some third-party tools and libraries.

Instance types

Add instance types for your environment with your preferred launch order. The order preference only applies to On-Demand instances and Spot instances that use the capacity optimized prioritized allocation strategy. We recommend you include at least two instance types. [Learn more](#)

1. t2.micro

Add instance type

AMI ID

Elastic Beanstalk selects a default Amazon Machine Image (AMI) for your environment based on the Region, platform version, and processor architecture that you choose. [Learn more](#)

ami-08353c1962bb9f845

Availability Zones

Number of Availability Zones (AZs) to use.

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Elastic Beanstalk

Applications

Environments

Change history

▼ Application: my\_ebwebsite

Application versions

Saved configurations

▼ Environment: Myebwebsite-env

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Elastic Beanstalk is launching your environment. This will take a few minutes.

Myebwebsite-env

Environment overview

Health

Unknown

Domain

-

Environment ID

e-mie32rj832

Application name

my\_ebwebsite

Platform

Node.js 22 running on 64bit Amazon Linux 2023/6.6.0

Running version

-

Platform state

Supported

Events (2)

Filter events by text, property or value

Time

July 3, 2025 19:33:45 (UTC+5:30)

Type

INFO

Details

Using elasticbeanstalk-ap-south-1-762593866529 as Amazon S3 storage bucket for environment data.

https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

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Elastic Beanstalk

Create environment

Ignore health check

false

Instance replacement

false

Platform software

Lifecycle

false

Log streaming

Deactivated

Proxy server

nginx

Logs retention

7

Rotate logs

Deactivated

Update level

minor

X-Ray enabled

Deactivated

Environment properties

Source

Key

Value

No environment properties

There are no environment properties defined

Cancel

Previous

Create

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Elastic Beanstalk

Environment successfully launched.

Health

Green

Environment ID

e-mrqkred2mi

Platform

Node.js 20 running on 64bit Amazon Linux 2023/6.1.1

Domain

My-eb-website-env.eba-gsdzmb7e.us-east-1.elasticbeanstalk.com

Application name

my-eb-website

Running version

-

Platform state

Supported

Events (11)

Filter events by text, property or value

Time

March 4, 2024 13:43:05 (UTC-5)

Type

INFO

Details

Successfully launched environment: My-eb-website-env

March 4, 2024 13:43:04 (UTC-5)

INFO

Application available at My-eb-website-env.eba-gsdzmb7e.us-east-1.elasticbeanstalk.com.

March 4, 2024 13:42:56 (UTC-5)

INFO

Environment health has been set to GREEN

March 4, 2024 13:42:50 (UTC-5)

INFO

Instance deployment completed successfully.

March 4, 2024 13:42:36 (UTC-5)

INFO

Added EC2 Instance 'i-01be4545c8ce44bc5' to Auto Scaling Group 'aws-eb-e-mrqkred2mi-stack-AWSEBAutoScalingGroup-k0e6ULqD79Jja'.

March 4, 2024 13:42:36 (UTC-5)

INFO

Adding instance 'i-01be4545c8ce44bc5' to your environment.

March 4, 2024 13:41:42 (UTC-5)

INFO

Waiting for EC2 instances to launch. This may take a few minutes.

March 4, 2024 13:40:55 (UTC-5)

INFO

Created EIP: 44.216.92.115

March 4, 2024 13:40:39 (UTC-5)

INFO

Created security group named: sg-0a5183e458fd6314

March 4, 2024 13:40:14 (UTC-5)

INFO

Using elasticbeanstalk-us-east-1-975050181034 as Amazon S3 storage bucket for environment data.

March 4, 2024 13:40:13 (UTC-5)

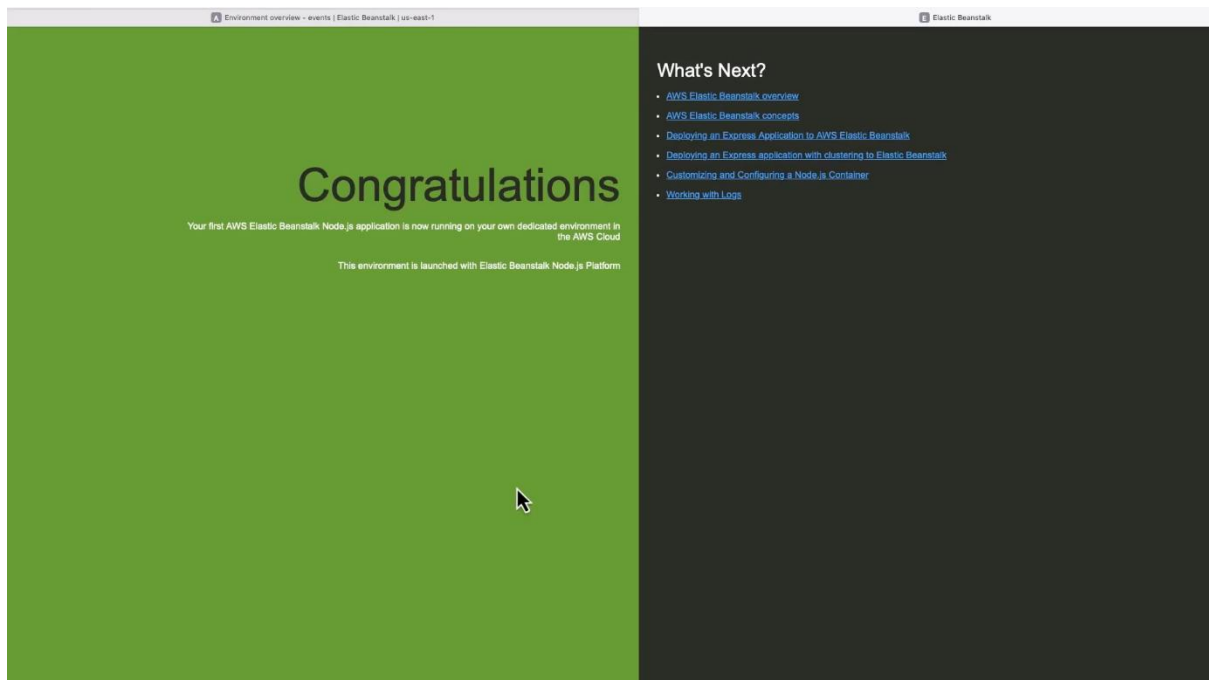
INFO

createEnvironment is starting.

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## Uses and Application of the Task

### 1. Testing Deployment Pipelines

Before deploying a real application, using the sample application allows developers to test the entire pipeline without any code. This is helpful to ensure that all configurations, permissions, and environment settings are correctly in place. It acts as a sandbox environment where one can practice deploying, scaling, and terminating environments with zero risk to actual applications.

### 2. Preparing for Real Application Hosting

Once familiar with Elastic Beanstalk through the default application, users can move on to deploying their own code. The same environment setup and deployment steps can be reused for Flask, Node.js, Java, or .NET applications. This transition is smooth because the user already understands how deployment works on a structural level.