

## Screenshots for setting up and deploying Elastic Beanstalk application :-

**Configure environment**

**Environment tier**

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**

Application name: WebServer

Maximum length of 100 characters.

▶ Application tags (optional)

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**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**

Node.js

**Platform branch**

Node.js 20 running on 64bit Amazon Linux 2023

**Platform version**

6.2.0 (Recommended)

**Application code**

**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.

**Presets** Info

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

**Cancel****Next****Service access**

IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. [Learn more](#) 

**Service role**

- Create and use new service role
- Use an existing service role

**Existing service roles**

Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.

▼
C

**EC2 key pair**

Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#) 

▼
C

**EC2 instance profile**

Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

▼
C

**View permission details****Cancel****Skip to review****Previous****Next**

## 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-0b4df95bddc923aea | (172.31.0.0/16)

-

vpc-0b4df95bddc923aea | (172.31.0.0/16)

### 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

### 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
<input checked="" type="checkbox"/>	us-east-1e	subnet-0098f3bf4...	172.31.48.0/20	
<input type="checkbox"/>	us-east-1f	subnet-03b751cf5...	172.31.64.0/20	
<input checked="" type="checkbox"/>	us-east-1a	subnet-05ff6de98...	172.31.16.0/20	
<input type="checkbox"/>	us-east-1c	subnet-089dbc2d1...	172.31.0.0/20	
<input type="checkbox"/>	us-east-1b	subnet-0d4591b4f...	172.31.32.0/20	
<input type="checkbox"/>	us-east-1d	subnet-0f341fff62...	172.31.80.0/20	

	Subnet ID	IP Range
<input type="checkbox"/>	us-east-1f	subnet-03b751cf5... 172.31.64.0/20
<input type="checkbox"/>	us-east-1a	subnet-05ff6de98... 172.31.16.0/20
<input type="checkbox"/>	us-east-1c	subnet-089dbc2d1... 172.31.0.0/20
<input type="checkbox"/>	us-east-1b	subnet-0d4591b4f... 172.31.32.0/20
<input type="checkbox"/>	us-east-1d	subnet-0f341fff62... 172.31.80.0/20

Enable database

### Restore a snapshot - *optional*

Restore an existing snapshot from a previously used database.

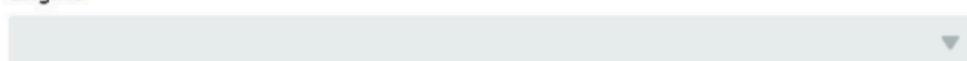
#### Snapshot

None

### Database settings

Choose an engine and instance type for your environment's database.

#### Engine



#### Engine version

### 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](#) 

No tags associated with the resource.

[Add new tag](#)

You can add 50 more tags.

[Cancel](#)

[Skip to review](#)

[Previous](#)

[Next](#)

## Configure instance traffic and scaling - optional Info

### ▼ Instances Info

Configure the Amazon EC2 instances that run your application.

#### Root volume (boot device)

##### Root volume type

General Purpose (SSD) 

(Container default)

Magnetic

hed to each instance.

General Purpose (SSD)  GB

General Purpose 3(SSD)

General Purpose (SSD)

Provisioned IOPS (SSD)

ded IOPS (SSD) volume.

 IOPS

##### Throughput

The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance

125

MiB/s

#### Root volume type

General Purpose (SSD) 

#### Size

The number of gigabytes of the root volume attached to each instance.

8

GB

#### IOPS

Input/output operations per second for a provisioned IOPS (SSD) volume.

IOPS

#### Throughput

The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance

125

MiB/s

#### Amazon CloudWatch monitoring

The time interval between when metrics are reported from the EC2 instances

#### Monitoring interval

5 minute



## Instance metadata service (IMDS)

Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. [Learn more](#)

### IMDSv1

With the current setting, the environment enables only IMDSv2.

Deactivated

## EC2 security groups

Select security groups to control traffic.

### EC2 security groups (3)

C

Filter security groups

<input type="checkbox"/>	Group name	▲	Group ID	▼	Name	▼
<input checked="" type="checkbox"/>	default		sg-0b6f2684b3eea9987			
<input type="checkbox"/>	launch-wizard-1		sg-0234926154e2078d6			
<input type="checkbox"/>	launch-wizard-2		sg-0f76834772eb69439			

### ▼ Capacity [Info](#)

Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.

## Auto scaling group

### Environment type

Select a single-instance or load-balanced environment. You can develop and test an application in a single-instance environment to save costs and then upgrade to a load-balanced environment when the application is ready for production. [Learn more](#)

Single instance

### Instances

1 ▾ Min

1 ▾ Max

### Fleet composition

Spot instances are launched at the lowest available price. [Learn more](#)

On-Demand instance

Spot instance

### Maximum spot price

The maximum price per instance-hour, in USD, that you're willing to pay for a Spot Instance. Setting a custom price limits your chances to fulfill your target capacity using Spot instances.

Default

Set your maximum price

**Instance types**

Add instance types for your fleet. Change the order that the instances are in to set the preferred launch order. This only affects On-Demand instances. We recommend you include at least two instance types. [Learn more](#)

Choose x86 instance types ▾

t2.small X

**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-0b4a9cc2fba693a25

**Availability Zones**

Number of Availability Zones (AZs) to use.

Any ▾

**Placement**

Specify Availability Zones (AZs) to use.

Choose Availability Zones (AZs) ▾

**Scaling cooldown**

360 ▾ seconds

Cancel

Skip to review

Previous

Next

**Root volume (boot device)****Root volume type**

General Purpose (SSD) ▾

**Size**

The number of gigabytes of the root volume attached to each instance.

8 ▾ GB

✖ Size must be between 10 and 16384.

**Root volume type**

General Purpose (SSD) ▾

**Size**

The number of gigabytes of the root volume attached to each instance.

16 ▾ GB

## Configure updates, monitoring, and logging - optional Info

### ▼ Monitoring Info

#### Health reporting

Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The **EnvironmentHealth** custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see [Amazon CloudWatch Pricing](#)

##### System

Basic

Enhanced

#### Health event streaming to CloudWatch Logs

Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment.

##### Log streaming

Activated (standard CloudWatch charges apply.)

##### Retention

7

##### Lifecycle

### ▼ Managed platform updates Info

Activate managed platform updates to apply platform updates automatically during a weekly maintenance window that you choose. Your application stays available during the update process.

#### Managed updates

Activated

#### Weekly update window

Tuesday at 01 : 14 UTC

#### Update level

Minor and patch

#### Instance replacement

If enabled, an instance replacement will be scheduled if no other updates are available.

Activated

Activated

### Instance log streaming to CloudWatch logs

Configure the instances in your environment to stream logs to CloudWatch logs. You can set the retention to up to 10 years and configure Elastic Beanstalk to delete the logs when you terminate your environment. [Learn more](#)

#### Log streaming

(standard CloudWatch charges apply.)

Activated

#### Retention

7



#### Lifecycle

Keep logs after terminating envir...



### Environment properties

The following properties are passed in the application as environment properties. [Learn more](#)

No environment properties have been configured.

[Add environment property](#)

[Cancel](#)

[Previous](#)

[Next](#)

Elastic Beanstalk application created, review screen before finalization :-

**Review** [Info](#)

**Step 1: Configure environment** [Edit](#)

**Environment information**

Environment tier	Application name
Web server environment	D15A-Jai-61
Environment name	Application code
D15A-Jai-61-env	Sample application
Platform	
arn:aws:elasticbeanstalk:us-east-1::platform/Node.js 20	
running on 64bit Amazon Linux 2023/6.2.0	

**Step 2: Configure service access** [Edit](#)

**Service access** [Info](#)

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

**Step 2: Configure service access** [Edit](#)

**Service access** [Info](#)

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

No options configured

**Step 3: Set up networking, database, and tags** [Edit](#)

**Networking, database, and tags** [Info](#)

Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.

**Network**

VPC	Public IP address	Instance subnets
vpc-0b4df95bddc923aea	true	subnet-0098f3bf430c41040,subnet-05ff6de9850aa5577

**Tags**

**Step 4: Configure instance traffic and scaling****Edit****Instance traffic and scaling** [Info](#)

Customize the capacity and scaling for your environment's instances. Select security groups to control instance traffic. Configure the software that runs on your environment's instances by setting platform-specific options.

**Instances**

Root volume type	Instance size	IMDSv1
gp2	16	Deactivated

## EC2 Security Groups

sg-0b6f2684b3eea9987

**Capacity**

Environment type	Fleet composition	On-demand base
Single instance	On-Demand instance	0
On-demand above base	Capacity rebalancing	Scaling cooldown
0	Deactivated	360
Processor type	Instance types	AMI ID
x86_64	t2.small	ami-0b4a9cc2fba693a25

**Step 5: Configure updates, monitoring, and logging****Edit****Updates, monitoring, and logging** [Info](#)

Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

**Monitoring**

System	Cloudwatch custom metrics - instance	Cloudwatch custom metrics - environment
basic	—	—
Log streaming	Retention	Lifecycle
Deactivated	7	false

**Updates**

Managed updates	Deployment batch size	Deployment batch size type
Deactivated	100	Percentage
Command timeout	Deployment policy	Health threshold
600	AllAtOnce	Ok
Ignore health check	Instance replacement	

Ignore health check	Instance replacement							
false	false							
<b>Platform software</b>								
Lifecycle	Log streaming	Proxy server						
false	Deactivated	nginx						
Logs retention	Rotate logs	Update level						
7	Deactivated	minor						
X-Ray enabled								
Deactivated								
<b>Environment properties</b>								
<table border="1"> <thead> <tr> <th>Key</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">No environment properties</td> </tr> <tr> <td colspan="2" style="text-align: center;">There are no environment properties defined</td> </tr> </tbody> </table>			Key	Value	No environment properties		There are no environment properties defined	
Key	Value							
No environment properties								
There are no environment properties defined								
<input type="button" value="Cancel"/> <input type="button" value="Previous"/> <input type="button" value="Submit"/>								

**WebServerPipe**

Pipeline type: V2 Execution mode: QUEUED

**Source** Succeeded  
Pipeline execution ID: [Be2460af-df87-463f-925d-7d5d2ee71640](#)

Source  
[GitHub/Version\\_21](#)   
Succeeded - 1 minute ago   
Blfsdssd

[#EditsData](#)  Source: Update README.md

**Deploy** Succeeded  
Pipeline execution ID: [Be2460af-df87-463f-925d-7d5d2ee71640](#)

Deploy  
[AWS Elastic Beanstalk](#)   
Succeeded - Just now

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Elastic Beanstalk

Applications Environments Change history

**Application: WebServer**

- Application versions
- Saved configurations

Recent environments

- WebServer-env
- WebApp02-env
- SupraApp-env-1
- MyFirstApp-env

Application WebServer environments (1) [Info](#)

Actions [Create new environment](#)

Filter environments

Environment name	Health	Date created	Domain	Running vers
WebServer-env	Green	August 17, 2024 22:...	WebServer-env.eba-227p9xyx...	code-pipeline

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

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Environment successfully launched.

Events Health Logs Monitoring Alarms Managed updates Tags

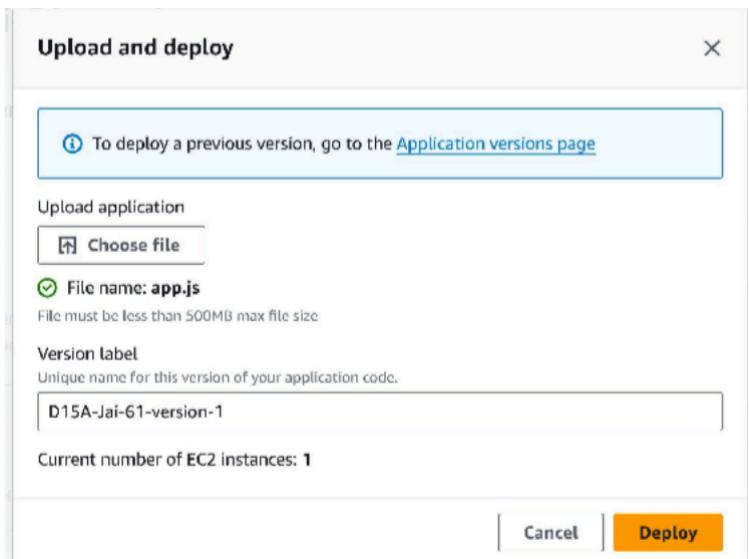
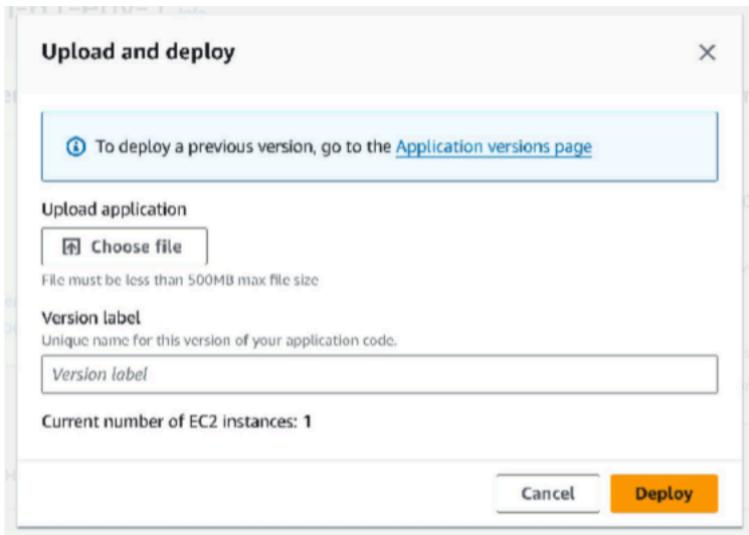
Events (7) [Info](#)

Filter events by text, property or value

Time	Type	Details
August 20, 2024 20:01:18 (UTC+5:30)	INFO	Successfully launched environment: D15A-Jai-61-env-1
August 20, 2024 20:00:14 (UTC+5:30)	INFO	Instance deployment completed successfully.
August 20, 2024 19:59:01 (UTC+5:30)	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
August 20, 2024 19:57:58 (UTC+5:30)	INFO	Created EIP: 23.21.64.185
August 20, 2024 19:57:43 (UTC+5:30)	INFO	Created security group named: sg-003edb017065a12ed
August 20, 2024 19:57:22 (UTC+5:30)	INFO	Using elasticbeanstalk-us-east-1-567270636093 as Amazon S3 storage bucket for environment data.
August 20, 2024 19:57:21 (UTC+5:30)	INFO	createEnvironment is starting.

https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/events?environment=WebServer-env&region=ap-south-1#

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The screenshot shows the deployment confirmation page. The top navigation bar includes icons for back, forward, refresh, and search, along with the URL 'd15ajai-61-version-1.elastic-beanstalk.com'. The main content area has a green header with the text 'Congratulations' in large white letters. Below it, a message states: 'Your first AWS Elastic Beanstalk Node.js application is now running on your own dedicated environment in the AWS Cloud'. A smaller note at the bottom says: 'This environment is launched with Elastic Beanstalk Node.js Platform'. To the right, a dark sidebar titled 'What's Next?' lists several links:

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk controls](#)
- [Deploying an Express Application to AWS Elastic Beanstalk](#)
- [Deploying an Express application with clustering to Elastic Beanstalk](#)
- [Customizing and Configuring a Node.js Container](#)
- [Working with Logs](#)