

Screenshots for setting up and deploying Elastic Beanstalk application :-

**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**  
 Maximum length of 100 characters.

**► Application tags (optional)**

**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**  
 ▾

**Platform branch**  
 ▾

**Platform version**  
 ▾

**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.

## 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](#)

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## 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.



### EC2 key pair

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



### EC2 instance profile

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



[View permission details](#)

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## 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

<input type="checkbox"/>	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	

	Region	Subnet	CIDR Block
<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

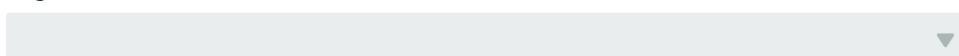
None



### 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.

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## 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)	anned 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)



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

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## 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](#)

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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

**Platform software**

Lifecycle	Log streaming	Proxy server
false	Deactivated	nginx
Logs retention	Rotate logs	Update level
7	Deactivated	minor

X-Ray enabled  
Deactivated

**Environment properties**

Key	Value
<b>No environment properties</b>	
There are no environment properties defined	

Cancel Previous Submit

Elastic Beanstalk is launching your environment. This will take a few minutes. (i) X

Elastic Beanstalk > Environments > D15A-Jai-61-env

### D15A-Jai-61-env Info

C
Actions ▾
Upload and deploy

**Environment overview**

Health	Environment ID
⊖ Unknown	<span>Copy</span> e-ixwgm2txnf
Domain	Application name
-	D15A-Jai-61

**Platform**

Platform	<span>Change version</span>
Node.js 20 running on 64bit Amazon Linux 2023/6.2.0	
Running version	-
Platform state	<span>Supported</span>

Events Health Logs Monitoring Alarms Managed updates Tags

Events (2) Info C

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Events (5) <a href="#">Info</a>		
Time	Type	Details
August 20, 2024 19:30:50 (UTC+5:30)	<span>INFO</span>	Deleting SNS topic for environment D15A-Jai-61-env.
August 20, 2024 19:30:49 (UTC+5:30)	<span>ERROR</span>	Failed to launch environment.
August 20, 2024 19:30:49 (UTC+5:30)	<span>ERROR</span>	Environment must have instance profile associated with it.
August 20, 2024 19:30:43 (UTC+5:30)	<span>INFO</span>	Using elasticbeanstalk-us-east-1-567270636093 as Amazon S3 storage bucket for environment data.
August 20, 2024 19:30:41 (UTC+5:30)	<span>INFO</span>	createEnvironment is starting.

Beanstalk > Environments > D15A-Jai-61-env

5A-Jai-61-env [Info](#)

Environment overview

**Restore environment**

Are you sure you want to restore the environment D15A-Jai-61-env?

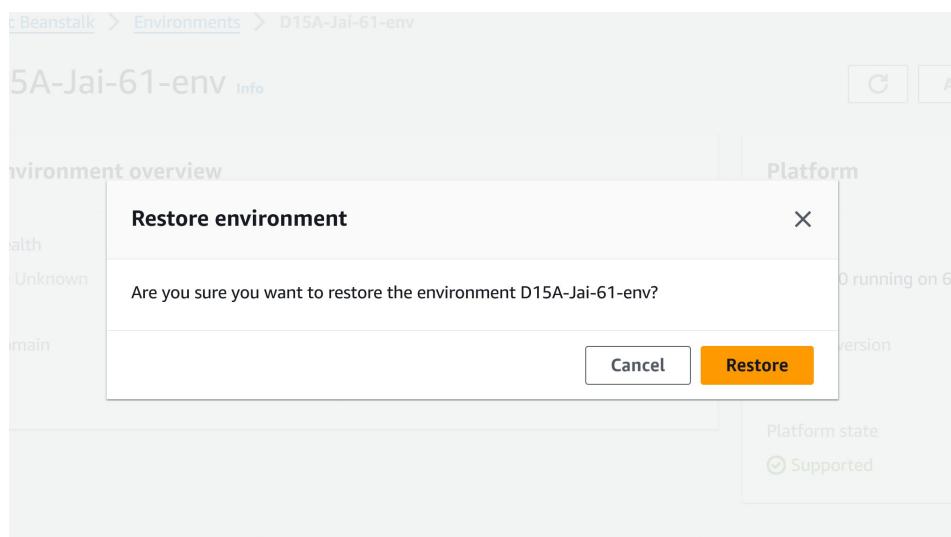
[Cancel](#) [Restore](#)

Platform

0 running on 6 versions

Platform state

Supported



No Environment found for EnvironmentName = 'D15A-Jai-61-env'. (2)

## Configure service access Info

### 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

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.

AWSServiceRoleForElasticBeanstalk



#### EC2 key pair

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

Choose a key pair



#### EC2 instance profile

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

EMR\_EC2\_DefaultRole



Cancel

Continue

Apply

Environment successfully launched.



Elastic Beanstalk > Environments > D15A-Jai-61-env-1

## D15A-Jai-61-env-1 Info



Actions ▾

Upload and deploy

### Environment overview

#### Health

Grey

#### Domain

D15A-Jai-61-env-1.eba-fwpthi36.us-east-1.elasticbeanstalk.com

#### Environment ID

e-qdg9ah3a5v

#### Application name

D15A-Jai-61

### Platform

Change version

#### Platform

Node.js 20 running on 64bit Amazon Linux 2023/6.2.0

#### Running version

-

#### Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (7) Info



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.

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### Upload and deploy

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

Upload application

File must be less than 500MB max file size

Version label

Unique name for this version of your application code.

Current number of EC2 instances: 1

### Upload and deploy

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

Upload application

File must be less than 500MB max file size

Version label

Unique name for this version of your application code.

File name: app.js

D15A-Jai-61-version-1

Current number of EC2 instances: 1

The screenshot shows the AWS Elastic Beanstalk console interface. At the top, there are two green status bars indicating successful deployment steps:

- Successfully uploaded file app.js to S3, created application version and started deployment with new application version
- Environment update successfully completed.

Below the status bars, the navigation path is shown: Elastic Beanstalk > Environments > D15A-Jai-61-env-1. The main title is "D15A-Jai-61-env-1" with an "Info" link. To the right are "Actions" and "Upload and deploy" buttons. The browser address bar shows the URL d15a-jai-61-env-1.eba-fwpthi36.us-east-1.elasticbeanstalk.com.

The main content area has a green header with the text "Congratulations" and a message: "Your first AWS Elastic Beanstalk Node.js application is now running on your own dedicated environment in the AWS Cloud". Below this, it says "This environment is launched with Elastic Beanstalk Node.js Platform". On the right side, under "What's Next?", there is a list of links:

- AWS Elastic Beanstalk overview
- AWS Elastic Beanstalk concepts
- 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