

Elastic Beanstalk

Elastic Beanstalk will automatically create the EC2 instance with the specified IAM role, enabling your application to interact with other AWS services securely.

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.

Step 1 Create an IAM role

Step 2

Add permissions

Step 3

Name, review, and create

Trusted entity type

☒ AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

☐ AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

EC2

Choose a use case for the specified service.

Use case

☒ EC2

Allows EC2 instances to call AWS services on your behalf.

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IAM > Roles > Create role

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Add permissions Info

Permissions policies (1/928) Info

Choose one or more policies to attach to your new role.

Q admin X

Filter by Type

All types

37 matches

< 1 2 > @

<input type="checkbox"/>	Policy name ?	Type	Description
<input type="checkbox"/>	AdministratorAccess	AWS managed - job function	Provides full access to AWS services an...
<input type="checkbox"/>	AdministratorAccess-Amplify	AWS managed	Grants account administrative permis...
<input checked="" type="checkbox"/>	AdministratorAccess-AWSElasticBean...	AWS managed	Grants account administrative permis...
<input type="checkbox"/>	AmazonAPIGatewayAdministrator	AWS managed	Provides full access to create/edit/dele...

Step 2

[Add permissions](#)

Step 3

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

admin

Maximum 64 characters. Use alphanumeric and '+=, @, _' characters.

Description

Add a short explanation for this role.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tab, new lines, or any of the following characters: _+=, @, _/[(){}#\$\$%^&*';:"<>

Step 1: Select trusted entities

Edit

Trust policy

```

1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "sts:AssumeRole"
8       ],
9       "Principal": {

```

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Role admin created.

View role

Roles (1/6) Info

Refresh

Delete

Create role

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

< 1 > ⚙

Role name	Trusted entities	Last activity
<input checked="" type="checkbox"/> admin	AWS Service: ec2	-

Step 2 create a EBS

- 1step

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

ebs_pri

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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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

Python

Platform branch

Python 3.11 running on 64bit Amazon Linux 2023

Platform version

4.1.0 (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.

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

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- 2step

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](#)

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.

admin

EC2 key pair

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

priyu

EC2 instance profile

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

admin

View permission details

Cancel

Skip to review

Previous

Next

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- 3step

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-07f48dec5a3f9030a | (172.31.0.0/16) | defaultvpc

[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

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- 4step

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 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)

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.

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

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 (1)

<input checked="" type="checkbox"/>	Group name	Group ID	Name
<input checked="" type="checkbox"/>	default	sg-0b8f682f438e5936b	

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▼ 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

On-Demand base

0

%

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 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.micro

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-00d37c7283997683a

Availability Zones

Number of Availability Zones (AZs) to use.

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- 5step

[Alt-F5]

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

Keep logs after terminating environment

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Deployment preferences

Customize health check requirements and deployment timeouts.

Ignore health check

Don't fail deployments due to health check failures.

False

Health threshold

Lower the threshold for an instance in a batch to pass health checks during an update or deployment.

Ok

Command timeout

Change the amount of time in seconds that Amazon Elastic Beanstalk allows an instance to complete deployment commands.

600seconds

▼ Platform software Info

Configure the options available to your specific platform. These include the proxy server and OS environment properties. [Learn more](#)

Container options

Proxy server

Nginx

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Environment successfully launched.

Elastic Beanstalk > Environments > Ebspri-env

Ebspri-env Info

Actions

Upload and deploy

Environment overview

Health

Grey

Environment ID

e-i22smy8ren

Domain

-

Application name

ebs_pri

Platform

Change version

Platform

Python 3.11 running on 64bit Amazon Linux 2023/4.1.0

Running version

-

Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (7) Info

Filter events by text, property or value

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http://ebspri-env.eba-phdk323g.ap-northeast-3.elasticbeanstalk.com/

← → ↻ ⚠ Not secure ebspri-env.eba-phdk323g.ap-northeast-3.elasticbeanstalk.com

Congratulations

Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Python Platform

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
- [Deploy a Django Application to AWS Elastic Beanstalk](#)
- [Deploy a Flask Application to AWS Elastic Beanstalk](#)
- [Customizing and Configuring a Python Container](#)
- [Working with Logs](#)

Security Groups (1/2) [Info](#)

Find resources by attribute or tag

< 1 >

	Name	Security group ID	Security group name	VPC ID
<input type="checkbox"/>	-	sg-00a98ff179aa0911	default	ypc-0191d81e0156fb383
<input checked="" type="checkbox"/>	Ebspri-env	sg-0f7eab06d5c85c6b7	awseb-e-pm4ma4jp2z-stack-AWSEBS...	ypc-0191d81e0156fb383

- After completing tasks, terminate it

[Elastic Beanstalk](#) > Environments

Environments (1) [Info](#)

Filter environments

< 1 >

	Environment name	Health	Applica...	Platform	Domain	Runnin...	Tier na...
<input type="radio"/>	Ebspri-env (terminated)	Unknown	ebs_pri	Python 3...	-	-	WebServer

Instances (1) [Info](#)

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabili...
<input type="checkbox"/>	Ebspri-env	i-07f69ef37fb8be048	Shutting-d...	t2.micro	-	View alarms	ap-northea...