

**AWS**

**I-a-a-S**

**Amazon EC2**



Services

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To exit full screen, press [Alt+S] Esc



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## Resource Groups &amp; Tag Editor

New EC2 Experience  
Tell us what you think X

## EC2 Dashboard

EC2 Global ⓘ

Events

## Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

## Images

AMIs

AMI Catalog

## Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

## Resources

EC2 Global view  ⓘ

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)

0

Auto Scaling Groups

0

Dedicated Hosts

0

Elastic IPs

0

Instances

0

Key pairs

1

Load balancers

0

Placement groups

0

Security groups

3

Snapshots

0

Volumes

0

## Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▼Migrate a server  ⓘ

Note: Your instances will launch in the US East (N. Virginia) Region

Scheduled events  ⓘ

## Service health

AWS Health Dashboard  ⓘ

Region

US East (N. Virginia)

## Zones

Zone name	Zone ID
us-east-1a	use1-az2
us-east-1b	use1-az4

## Account attributes

Default VPC  ⓘ

vpc-8f6ea2f4

## Settings

Data protection and security New

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS  X

## 10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity.

Learn more  ⓘ

## Save up to 90% on EC2 with Spot Instances

Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. Learn more  ⓘ

## Get Up to 40% Better Price Performance

T4g instances deliver the best price performance for

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Resource Groups & Tag Editor

EC2 > Instances > Launch an instance

## Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags Info**

Name  Add additional tags

**Application and OS Images (Amazon Machine Image) Info**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

**Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li  ...

**Summary**

Number of instances Info 1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.1.2... read more  
ami-01c647eace872fc02

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

**i Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100

Cancel **Launch instance** Review commands



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Resource Groups &amp; Tag Editor

## Application and OS Images (Amazon Machine Image) Info



An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

### Quick Start



Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

### Amazon Machine Image (AMI)

#### Amazon Linux 2023 AMI

ami-01c647eace872fc02 (64-bit (x86)) / ami-0fdcbfc2802f642d3 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

#### Description

Amazon Linux 2023 AMI 2023.1.20230906.1 x86\_64 HVM kernel-6.1

#### Architecture

64-bit (x86) ▾

#### AMI ID

ami-01c647eace872fc02

Verified provider

## Summary

Number of instances Info

1

#### Software Image (AMI)

Amazon Linux 2023 AMI 2023.1.2... [read more](#)  
ami-01c647eace872fc02

#### Virtual server type (instance type)

t2.micro

#### Firewall (security group)

New security group

#### Storage (volumes)

1 volume(s) - 8 GiB

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Cancel

Launch instance

Launch an instance | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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Resource Groups & Tag Editor

Quick Start

Amazon Linux AWS

macOS Mac

Ubuntu ubuntu®

Windows Microsoft

Red Hat Red Hat

SUSE Li SUSE

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type Free tier eligible

ami-0f409bae3775dc8e5 (64-bit (x86)) / ami-0f0f7b386be96ec2d (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20230822.0 x86\_64 HVM gp2

Architecture 64-bit (x86)

AMI ID ami-0f409bae3775dc8e5 Verified provider

Instance type Info

Cancel Launch instance 720p 360p

Summary

Number of instances 1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more  
ami-0f409bae3775dc8e5

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100



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Resource Groups &amp; Tag Editor

Search for an AMI by entering a search term e.g. "Windows"

## Quickstart AMIs (47)

Commonly used AMIs

## My AMIs (0)

Created by me

## AWS Marketplace AMIs (0)

AWS &amp; trusted third-party AMIs

## Community AMIs (500)

Published by anyone

 [Free tier only](#) [Intro](#)

## ▼ OS category

- All Linux/Unix
- All Windows

## ▼ Architecture

- 64-bit (Arm)
- 32-bit (x86)
- 64-bit (x86)
- 64-bit (Mac)
- 64-bit (Mac-Arm)

AMAZON LINUX

Free tier eligible

Verified provider



Amazon Linux

Free tier eligible

Verified provider

is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Platform: amazon

Root device type: ebs

Virtualization: hvm

ENAv enabled: Yes

 64-bit (x86) 64-bit (Arm)**Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type**

ami-0f409bae3775dc8e5 (64-bit (x86)) / ami-0f0f7b386be96ec2d (64-bit (Arm))

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

**Select** 64-bit (x86) 64-bit (Arm)

macOS

Verified provider

**macOS Ventura**

ami-08ca62760f6daf67c (64-bit (Mac)) / ami-046b1babf84cba1fb (64-bit (Mac-Arm))

The macOS Ventura AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

**Select** 64-bit (Mac) 64-bit (Mac-Arm)

macOS

**macOS Monterey**

ami-0d23daa7acca9ead1 (64-bit (Mac)) / ami-0e50d2020fb1e2953 (64-bit (Mac-Arm))

The macOS Monterey AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line

**Select**



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Resource Groups &amp; Tag Editor

▼ Instance type [Info](#)

## Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true  
On-Demand Windows base pricing: 0.0162 USD per Hour  
On-Demand SUSE base pricing: 0.0116 USD per Hour  
On-Demand RHEL base pricing: 0.0716 USD per Hour  
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

 All generations[Compare instance types](#)

t2.nano

Family: t2 1 vCPU 0.5 GiB Memory Current generation: true  
On-Demand Linux base pricing: 0.0058 USD per Hour  
On-Demand SUSE base pricing: 0.0058 USD per Hour  
On-Demand Windows base pricing: 0.0081 USD per Hour

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true  
On-Demand Windows base pricing: 0.0162 USD per Hour  
On-Demand SUSE base pricing: 0.0116 USD per Hour  
On-Demand RHEL base pricing: 0.0716 USD per Hour  
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

t2.small

Family: t2 1 vCPU 2 GiB Memory Current generation: true  
On-Demand Windows base pricing: 0.032 USD per Hour  
On-Demand Linux base pricing: 0.023 USD per Hour  
On-Demand RHEL base pricing: 0.083 USD per Hour  
On-Demand SUSE base pricing: 0.053 USD per Hour

t2.medium

Family: t2 2 vCPU 4 GiB Memory Current generation: true  
On-Demand Linux base pricing: 0.0464 USD per Hour  
On-Demand RHEL base pricing: 0.1064 USD per Hour

vpc-8f6ea2f4

03:21

## ▼ Summary

Number of instances [Info](#)

1

## Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-0f409bae3775dc8e5

## Virtual server type (instance type)

t2.micro

## Firewall (security group)

New security group

## Storage (volumes)

1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS, 1 GB of snapshots, and 100

Cancel

**Launch instance**[Review commands](#)



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Resource Groups &amp; Tag Editor

## ▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

[Create new key pair](#)

## ▼ Network settings Info

[Edit](#)

Network Info

vpc-8f6ea2f4

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

### Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

 Create security group Select existing security group

We'll create a new security group called '**launch-wizard-1**' with the following rules:

Allow SSH traffic from

Helps you connect to your instance

## ▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-0f409bae3775dc8e5

Virtual server type (instance type)

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New security group

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[Cancel](#)[Launch instance](#)[Review commands](#)



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Resource Groups &amp; Tag Editor

▼ Network settings [Info](#)VPC - required [Info](#)vpc-0acd74a741c34c8ef (AcademyDemoVPC)  
10.0.0.0/16Subnet [Info](#)subnet-0bf4561d5536816be Academy Demo Public Subnet 1  
VPC: vpc-0acd74a741c34c8ef Owner: 263193743095 Availability Zone: us-east-1a  
IP addresses available: 251 CIDR: 10.0.1.0/24Create new subnet [🔗](#)Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)A security group is a set of firewall rules that control the traffic for your instance. Add rule  Allow specific traffic to reach your instance. Create security group Select existing security group

## Security group name - required

launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and .\_-:/()#@[]+=&amp;;!\$\*

Description - required [Info](#)

launch-wizard-1 created 2023-09-11T04:24:31.982Z

## Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

[Remove](#)

## ▼ Summary

Number of instances [Info](#)

1

## Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-0f409bae3775dc8e5

## Virtual server type (instance type)

t2.micro

## Firewall (security group)

New security group

## Storage (volumes)

1 volume(s) - 8 GiB

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[Cancel](#)[Launch instance](#)[Review commands](#)



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## Resource Groups &amp; Tag Editor

 Create security group Select existing security groupCommon security groups [Info](#)

Select security groups

AcademyDemoSG sg-0dd68d4dfa269cc49

VPC: vpc-0acd74a741c34c8ef

Compare security group rules

► Advanced network configuration

▼ Configure storage [Info](#)

Advanced

1x

8

GiB

gp2



Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

[Add new volume](#)

0 x File systems

[Edit](#)► Advanced details [Info](#)

## ▼ Summary

Number of instances [Info](#)

1

## Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-0f409bae3775dc8e5

## Virtual server type (instance type)

t2.micro

## Firewall (security group)

AcademyDemoSG

## Storage (volumes)

1 volume(s) - 8 GiB

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[Cancel](#)[Launch instance](#)[Review commands](#)

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Resource Groups & Tag Editor

Purchasing option [Info](#)

Request Spot Instances

Domain join directory [Info](#)

Select [Create new directory](#)

IAM instance profile [Info](#)

Select [Create new IAM profile](#)

Hostname type [Info](#)

IP name

DNS Hostname [Info](#)

Enable IP name IPv4 (A record) DNS requests

Enable resource-based IPv4 (A record) DNS requests

Enable resource-based IPv6 (AAAA record) DNS requests

Instance auto-recovery [Info](#)

Select

Shutdown behavior [Info](#)

Stop

Stop - Hibernate behavior [Info](#)

Select

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI... [read more](#)  
ami-0f409bae3775dc8e5

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Firewall (security group)

AcademyDemoSG

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Cancel Launch instance Review commands

## Resource Groups &amp; Tag Editor

Select

Metadata response hop limit [Info](#)

Select

Allow tags in metadata [Info](#)

Select

User data - *optional* [Info](#)

Upload a file with your user data or enter it in the field.

Choose file

User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)

ami-0f409bae3775dc8e5

Virtual server type (instance type)

t2.micro

Firewall (security group)

AcademyDemoSG

Storage (volumes)

1 volume(s) - 8 GiB

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Cancel

Launch instance

Review commands



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Resource Groups &amp; Tag Editor

EC2 &gt; Instances &gt; Launch an instance



Successfully initiated launch of instance (i-07777ac306f58875b)



▶ Launch log

## Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

[Create billing alerts](#)

Connect to your instance

Once your instance is running, log into it from your local computer.

[Connect to instance](#)

[Learn more](#)

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

[Connect an RDS database](#)

[Create a new RDS database](#)

[Learn more](#)

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

[Create EBS snapshot policy](#)

Manage detailed monitoring

Enable or disable detailed monitoring for

Create Load Balancer

Create a application, network, or managed load balancer

Create AWS budget

AWS Budgets allows you to create budgets

Manage CloudWatch alarms

Create or update Amazon CloudWatch



What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >



### Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

[Create billing alerts](#)

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Once your instance is running, log into it from your local computer.

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[Create a new RDS database](#)

[Learn more](#)

### Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

[Create EBS snapshot policy](#)

### Manage detailed monitoring

Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.

[Manage detailed monitoring](#)

### Create Load Balancer

Create a application, network gateway or classic Elastic Load Balancer

[Create Load Balancer](#)

### Create AWS budget

AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.

[Create AWS budget](#)

### Manage CloudWatch alarms

Create or update Amazon CloudWatch alarms for the instance.

[Manage CloudWatch alarms](#)

[View all instances](#)





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## Resource Groups &amp; Tag Editor

New EC2 Experience  
Tell us what you think 

EC2 Dashboard

EC2 Global View

Events

## ▼ Instances

## Instances

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Dedicated Hosts

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Volumes

Snapshots

Lifecycle Manager

Instances (1) 

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Find instance by attribute or tag (case-sensitive)

< 1 > 

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	
	academy demo	i-07777ac306f58875b	 Running	 	t2.micro	 Initializing	No alarms 	us-east-1a



## Select an instance



**AWS**

**P-a-a-S**

**Amazon Elastic Beanstalk**



Compute

# Amazon Elastic Beanstalk

## End-to-end web application management.

Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

### 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.

### Get started

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](#) [Play \(1\)](#)  
Benefits and features[Getting started](#)



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Elastic Beanstalk



Elastic Beanstalk &gt; Applications

Applications

Environments

Change history

Applications (2) Info

Filter results matching the display value



Actions ▾

Create application

&lt; 1 &gt;

Application name	▲ Environments	Date created	Last modified	▼ AR
<a href="#">eb-tutorial</a>	-	June 3, 2023 09:31:49 (UTC-7)	June 3, 2023 09:31:49 (UTC-7)	
<a href="#">my-stock-api</a>	-	June 3, 2023 07:46:06 (UTC-7)	June 3, 2023 07:46:06 (UTC-7)	

# APPLICATION

## ENVIRONMENTS

- Infrastructure (EC2 instances, load balancers, auto-scaling groups, etc.)
- Runs a single application version at a time
- An application can have many environments (like dev and test)

## APPLICATION VERSIONS

- Application code
- Stored in S3
- An application can have many application versions (supporting rollback, etc.)

## SAVED CONFIGURATIONS

- Defines how an environment and its resources behave
- Can be used to launch new environments
- An application can have many saved configurations



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Elastic Beanstalk &gt; Create application

## Create new application Info

### Application information

Application name

My First App

Maximum length of 100 characters.

Description

### 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](#)[Create](#)

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## Elastic Beanstalk

Elastic Beanstalk > Applications > My First App

Application My First App environments (0) [Info](#)

Filter environments

Actions Create new environment

Environment ... ▲ | Health ▼ | Date created ▼ | Domain ▼ | Running versi... ▼ | Platform ▼ | Platform st

No environments

No environments currently exist for this application.

Create environment

Applications Environments Change history

Application: My First App

Application versions Saved configurations

This screenshot shows the AWS Elastic Beanstalk console interface. The left sidebar has 'Elastic Beanstalk' selected. The main area shows the 'My First App' application details. At the top, there's a header with 'Elastic Beanstalk > Applications > My First App'. Below it, the title 'Application My First App environments (0)' is followed by a blue 'Info' link. To the right are 'Actions' and a prominent orange 'Create new environment' button. A search bar labeled 'Filter environments' is present. The main content area displays a table with columns: Environment ..., Health, Date created, Domain, Running versi..., Platform, and Platform st. A message 'No environments' is centered, with a sub-message 'No environments currently exist for this application.' below it. At the bottom of this section is a large orange-bordered 'Create environment' button. On the far left, a secondary sidebar under 'Application: My First App' lists 'Application versions' and 'Saved configurations'. The overall theme is the standard AWS dark mode.



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 InfoEnvironment 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 First App



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.

## Environment name



Services

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Step 6  
Review

My First App

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.

## Environment name

MyFirstApp-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

.us-west-2.elasticbeanstalk.com

Check availability

## Environment description

**Platform** Info

## Platform type

 Managed platform



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## Environment description

.NET Core on Linux

.NET on Windows Server

Docker

Go

Java

Node.js

PHP

Python

Ruby

Tomcat

Choose a platform

## Platform branch

Choose a platform branch

## Platform version

Choose a platform version

Application code Info

## Platform branch

Python 3.11 running on 64bit Amazon Linux 2023



## Platform version

4.0.4 (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.

## Version label

Unique name for this version of your application code.

Version label

Source code origin. Maximum size 500 MB

 Local file Public S3 URL

https://s3.us-east-1.amazonaws.com

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.



Services

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## Platform branch

Python 3.11 running on 64bit Amazon Linux 2023

## Platform version

4.0.4 (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



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Step 1

[Configure environment](#)

Step 2

**Configure service access**

Step 3 - optional

[Set up networking, database, and tags](#)

Step 4 - optional

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Step 5 - optional

[Configure updates, monitoring, and logging](#)

Step 6

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## 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

- 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](#)[Cancel](#)[Skip to review](#)[Previous](#)[Next](#)

Step 1

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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-0a98bdf5771a41cd3   (172.31.0.0/16)   DefaultVPC	

### 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
-------------------	--------	------	------



Services

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and tags

Step 4 - optional

[Configure instance traffic and scaling](#)

Step 5 - optional

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vpc-0a98bdf5771a41cd3 | (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

 Filter instance subnets

	Availability Zone	Subnet	CIDR	Name
<input checked="" type="checkbox"/>	us-west-2c	subnet-031336e8d...	172.31.0.0/20	
<input checked="" type="checkbox"/>	us-west-2a	subnet-04a1c2d29...	172.31.32.0/20	
<input type="checkbox"/>	us-west-2d	subnet-0aebd29cd...	172.31.48.0/20	
<input type="checkbox"/>	us-west-2b	subnet-0d018545a...	172.31.16.0/20	



## Database Info

Integrate an RDS SQL database with your environment. [Learn more](#)

### Database subnets

If your Elastic Beanstalk environment is attached to an Amazon RDS, choose subnets for your database instances. [Learn more](#)

#### Choose database subnets (4)

Filter database subnets

<input type="checkbox"/>	Availability Zone	Subnet	▲	CIDR	Name
<input type="checkbox"/>	us-west-2c	subnet-031336e8d...		172.31.0.0/20	
<input type="checkbox"/>	us-west-2a	subnet-04a1c2d29...		172.31.32.0/20	
<input type="checkbox"/>	us-west-2d	subnet-0aebd29cd...		172.31.48.0/20	
<input type="checkbox"/>	us-west-2b	subnet-0d018545a...		172.31.16.0/20	

Enable database

#### Restore a snapshot - optional

Restore an existing snapshot from a previously used database.

#### Snapshot

None

## Password

## Availability

Low (one AZ)



## Database deletion policy

This policy applies when you decouple a database or terminate the environment coupled to it.

 Create snapshot

Elastic Beanstalk saves a snapshot of the database and then deletes it. You can restore a database from a snapshot when you add a DB to an Elastic Beanstalk environment or when you create a standalone database. You might incur charges for storing database snapshots.

 Retain

The decoupled database will remain available and operational external to Elastic Beanstalk.

 Delete

Elastic Beanstalk terminates the database. The database will no longer be available.

## 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](#)

Step 1

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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

(Container default)



##### 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.

100

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



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With the current setting, the environment enables only IMDSv2.

 Deactivated

## EC2 security groups

Select security groups to control traffic.

### EC2 security groups (8)



Filter security groups

<input type="checkbox"/>	Group name	▲	Group ID	▼	Name	▼
<input type="checkbox"/>	alb-demo-httopen		sg-024cc4c8c9c44044b			
<input type="checkbox"/>	alb-demo-sg		sg-040de85e6f7a7c282			
<input checked="" type="checkbox"/>	default		sg-0dc85f4edf4ec5fa1			
	Deselect security group: sg-0dc85f4edf4ec5fa1					
<input type="checkbox"/>	launch-wizard-1		sg-0878d07fc56f4c777			
<input type="checkbox"/>	security-group-for-inbound...		sg-0384f3b722de25d56			
<input type="checkbox"/>	security-group-for-inbound...		sg-03362032b5a429e9b			
<input type="checkbox"/>	security-group-for-outboun...		sg-0ff78878ca37e877a			
<input type="checkbox"/>	security-group-for-outboun...		sg-014ee2ad8b3004f4c			

▼ Capacity Info

## ▼ 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

The minimum number of On-Demand Instances that your Auto Scaling group provisions before considering Spot Instances as your environment scales out.

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## 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

 Enhanced

#### CloudWatch Custom Metrics - Instance

[Choose metrics](#)

#### CloudWatch Custom Metrics - Environment

[Choose metrics](#)

#### 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



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## Elastic Beanstalk



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



Applications

Environments

Change history

## Application: My First App

Application versions

Saved configurations

## Environment: MyFirstApp-env

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Elastic Beanstalk &gt; Environments &gt; MyFirstApp-env

## MyFirstApp-env



Actions ▾

Upload and deploy

## Environment overview

Health

Unknown

Environment ID

e-mux9sm4cmf

Domain

-

Application name

My First App

## Platform

Change version

Platform

Python 3.11 running on 64bit Amazon Linux 2023/4.0.4

Running version

-

Platform state

Supported

Events

Health

Logs

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Managed updates

Tags

## Events (2)

Filter events by text, property or value

&lt; 1 &gt;

Time

Type

Details

aws | Services Search [Alt+S] X ? Oregon ▾ Amber ▾

Elastic Beanstalk X Environment successfully launched.

Applications Environments Change history

Application: My First App Application versions Saved configurations

Environment: MyFirstApp-env Go to environment Configuration Events Health Logs Monitoring Alarms Managed updates Tags

Elastic Beanstalk > Environments > MyFirstApp-env

## MyFirstApp-env Info

C Actions ▾ Upload and deploy

**Environment overview**

Health	Environment ID
Green	e-mux9sm4cmf
Domain	Application name
MyFirstApp-env.eba-ezc2xnks.us-west-2.elasticbeanstalk.com <small>Info</small>	My First App

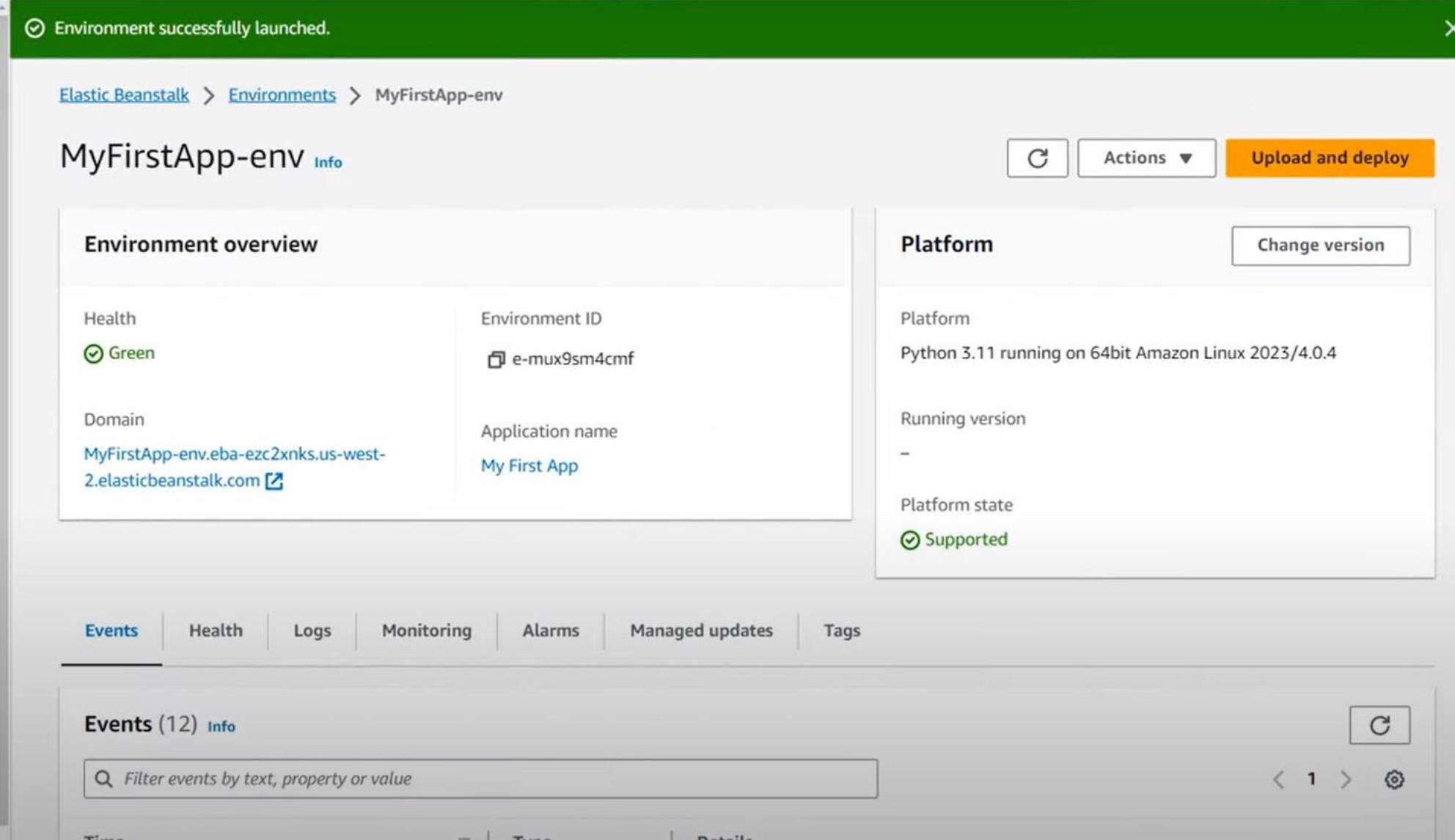
**Platform** Change version

Platform	Python 3.11 running on 64bit Amazon Linux 2023/4.0.4
Running version	-
Platform state	Supported

Events (12) Info

Filter events by text, property or value

< 1 > Info



# 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](#)

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New EC2 Experience Tell us what you think X

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots

Instances (1) Info Find instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	MyFirstApp-env	i-032c2f8a70b74719d	Running	t3.micro	2/2 checks passed	No alarms	us-west-2c	ec2-44-227-246-

Select an instance

AWS Services Search [Alt+S] EC2 Auto Scaling groups

Reserved Instances Dedicated Hosts Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces

Load Balancing Load Balancers Target Groups

Auto Scaling Auto Scaling Groups

Auto Scaling groups (1) Info Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups < 1 >

Name	Launch template/configuration	Instances	Status	Desired capacity	Min
awseb-e-mux9sm4cmf-stack-AWSEBAutoScalingGroup-rKlgJHFWJXgz	awseb-e-mux9sm4cmf-stack-AWS...	1	-	1	1

The screenshot shows the AWS Management Console interface for the Auto Scaling service. The left sidebar is collapsed, showing the main navigation categories. The main content area displays the 'Auto Scaling groups' page. It shows one Auto Scaling group named 'awseb-e-mux9sm4cmf-stack-AWSEBAutoScalingGroup-rKlgJHFWJXgz'. The group is associated with a launch configuration named 'awseb-e-mux9sm4cmf-stack-AWS...', has 1 instance, and is currently in a ' - ' status. The desired capacity is set to 1, and the minimum required instances is also 1. The 'Create Auto Scaling group' button is visible at the top right of the table header.



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## Elastic Beanstalk



✔ Environment successfully launched.



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Tags

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

## Service metrics

1h

3h

12h

1d

3d

1w



UTC timezone ▾

 Add to dashboard

## Environment health

--

## CPU utilization

0.41 %

## Network in

23.3 kB

EnvironmentHealth

CPUUtilization

NetworkIn

## Network out

18.7 kB

aws | Services Search [Alt+S] X ? Oregon ▾ Amber ▾

## Elastic Beanstalk

Environment successfully launched.

MyFirstApp-env.eba-ezc2xnks.us-west-2.elasticbeanstalk.com ↗ My First App

Platform state  
Supported

Events Health Logs Monitoring Alarms Managed updates Tags

### Overall health Info

Requests / second	2XX responses	3XX responses	4XX responses	5xx responses
-	-	-	-	-
P99 latency(ms)	P90 latency(ms)	P75 latency(ms)	P50 latency(ms)	P10 latency(ms)
-	-	-	-	-

### Enhanced instance health Info

Instance ID	Status	Running time	Deployment ID	Requests/sec	2xx Responses
Enhanced health is disabled.					

Enhanced health reporting is not enabled for this environment. To enable it, view [Enabling Elastic Beanstalk enhanced health reporting](#) to learn more.

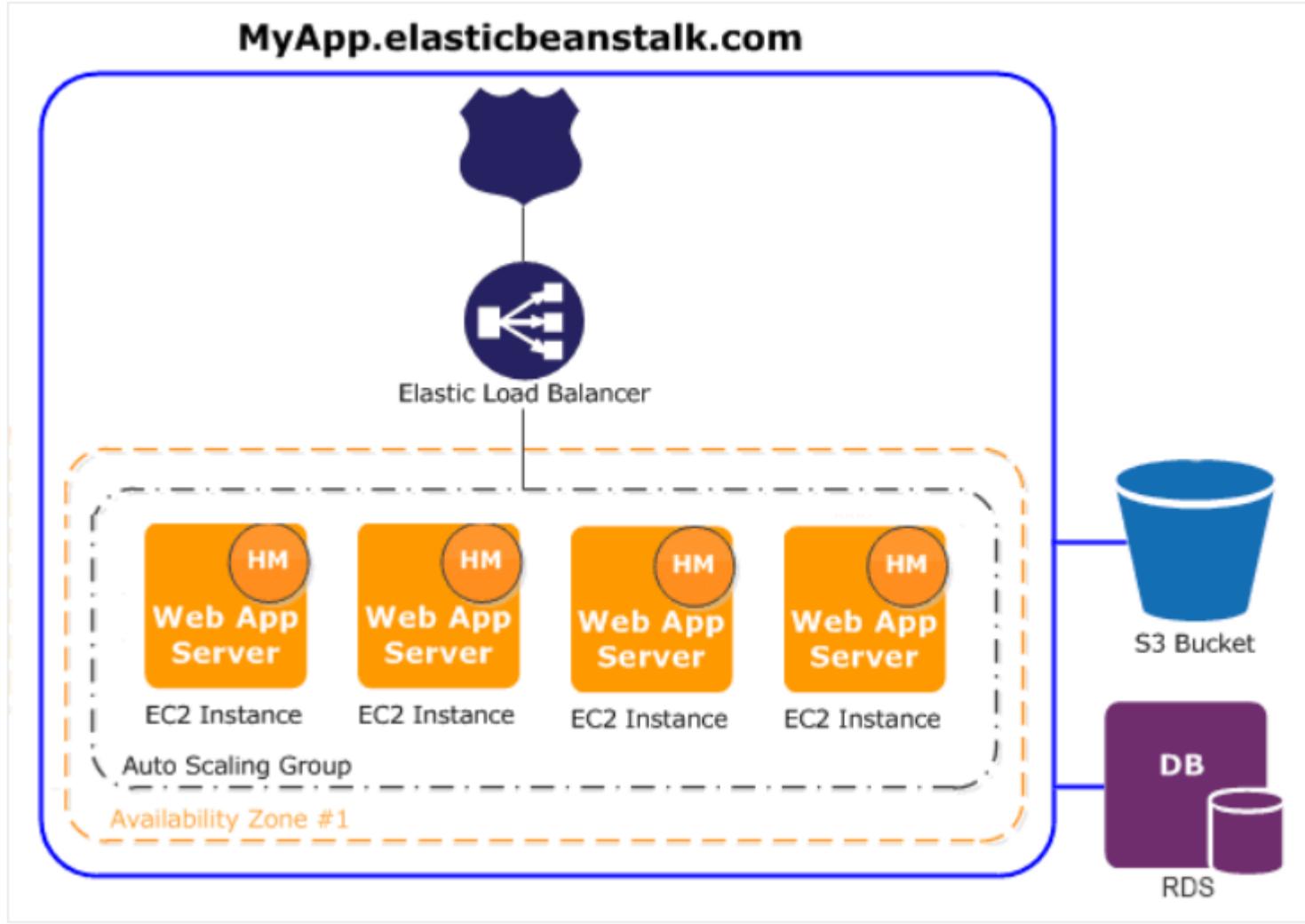
Application: My First App

Environment: MyFirstApp-env

- Go to environment ↗
- Configuration
- Events
- Health**
- Logs
- Monitoring
- Alarms
- Managed updates
- Tags

Recent environments

MyFirstApp-env



There's no additional charge for AWS Elastic Beanstalk. You only pay for the resources that your application consumes.



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Tutorial - Django

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Managing applications

Managing environments

Configuring environments

Configuring environments  
(advanced)

July 10, 2024

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On this page



Did this page help you?

Yes

No

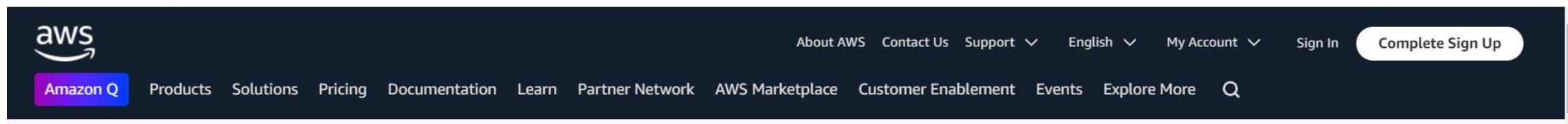
Provide feedback

Next topic: Development environment

Previous topic: Adding a database

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- Connect with an AWS IQ expert ↗



The screenshot shows the AWS Certified Cloud Practitioner landing page. At the top, there's a navigation bar with links for About AWS, Contact Us, Support, English, My Account, Sign In, and Complete Sign Up. Below that is a secondary navigation bar with links for Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a search bar. A purple button labeled "Amazon Q" is also present. The main content area features a large title "AWS Certified Cloud Practitioner" and a subtext "Showcase foundational knowledge of AWS cloud services and cloud computing". It includes two buttons: "Schedule an exam" and "Prepare for the exam". A blue banner at the bottom of the main content area announces the "AWS Certified AI Practitioner is Coming".

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