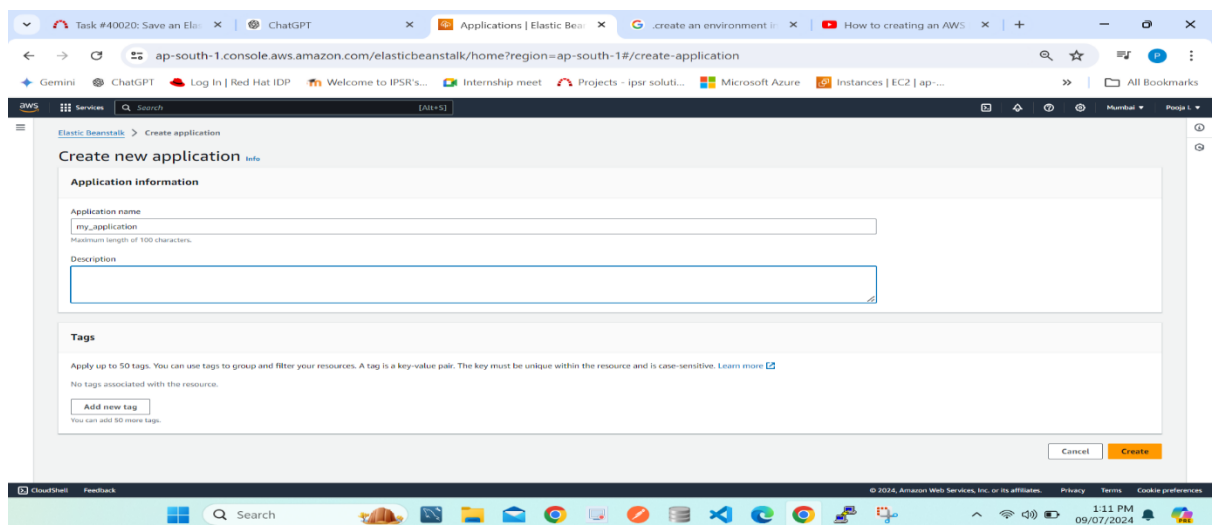


Save an Elastic Beanstalk Environment Configuration and load it after making few changes

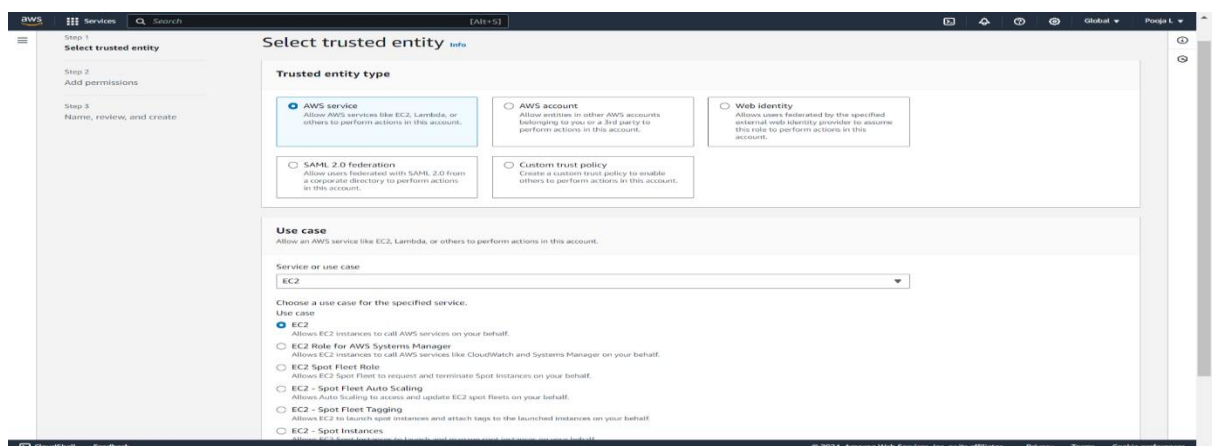
1. Create an environment inside beanstalk console
2. Choose the created environment for further changes and save configuration once the changes are completed

Steps

1. Login to AWS management console
2. In the AWS Management Console, type Elastic Beanstalk in the search bar and select it from the list.
3. Create a New Application:
 - Click on Create a new application.
 - Enter an application name and optionally, a description.



4. Create the role



aws

Services

Search

[Alt+S]

Global

Pooja L

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Add permissions info

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

Filter by Type

All types

14 matches

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AdministratorAccess-AWSElasticBeanstalk	AWS managed	Grants account administrative permissions...
<input type="checkbox"/>	AWSElasticBeanstalkCustomPlatformforEC2Role	AWS managed	Provide the instance in your custom platform...
<input type="checkbox"/>	AWSElasticBeanstalkEnhancedHealth	AWS managed	AWS Elastic Beanstalk Service policy for...
<input type="checkbox"/>	AWSElasticBeanstalkManagedUpdatesCustomerRole...	AWS managed	This policy is for the AWS Elastic Beans...
<input checked="" type="checkbox"/>	AWSElasticBeanstalkMulticontainerDocker	AWS managed	Provide the instances in your multicon...
<input type="checkbox"/>	AWSElasticBeanstalkReadOnly	AWS managed	Grants read-only permissions. Explicitl...
<input type="checkbox"/>	AWSElasticBeanstalkRoleCore	AWS managed	AWS Elastic Beanstalk Role Core (Elastic ...
<input type="checkbox"/>	AWSElasticBeanstalkRoleCWL	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	AWSElasticBeanstalkRoleECS	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	AWSElasticBeanstalkRoleRDS	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	AWSElasticBeanstalkRoleSNS	AWS managed	(Elastic Beanstalk operations role) Allo...
<input type="checkbox"/>	AWSElasticBeanstalkRoleWorkerTier	AWS managed	(Elastic Beanstalk operations role) Allo...
<input checked="" type="checkbox"/>	AWSElasticBeanstalkWebTier	AWS managed	Provide the instances in your web serv...
<input checked="" type="checkbox"/>	AWSElasticBeanstalkWorkerTier	AWS managed	Provide the instances in your worker e...

► Set permissions boundary - optional

5. Create an Environment:

- Click on Create environment.
- Select the environment type (Web server environment or Worker environment).
- Click on Select.
- Platform: Select the desired platform (e.g., PHP, Node.js, Python, etc.). Ensure it matches your application's requirements.
- Application code: Choose to upload your code or select a sample application provided by AWS.
- Click on Configure more options if you need to customize the environment configuration. Here you can adjust settings for instances, capacity, rolling updates, monitoring, etc. Click on Create environment.

The screenshot displays the AWS Elastic Beanstalk console interface. The top section, titled 'Platform', shows the 'Managed platform' selected. Under 'Platform type', 'Python' is chosen. The 'Platform branch' is set to 'Python 3.11 running on 64bit Amazon Linux 2023', and the 'Platform version' is '4.1.1 (Recommended)'. The 'Application code' section has 'Sample application' selected. The 'Presets' section shows 'Single instance (free tier eligible)' as the chosen configuration.

The bottom section, titled 'Configure service access', shows the 'Service access' step. The 'Service role' is set to 'Create and use new service role'. The 'Service role name' is 'aws-elasticbeanstalk-service-role'. The 'EC2 key pair' is 'key_rocketmail', and the 'EC2 instance profile' is 'beanstalks-iam-role'. The 'Next' button is highlighted.

Task #40020: Save ChatGPT Set up networking .create an environ Deploying ASP.NET Roles | IAM | Glob...

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment?applicationName=my_application

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

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-0fae9425a9147893b | (172.31.0.0/16)

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 balance 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 checked="" type="checkbox"/>	Availability Zone	Subnet	CIDR	Name
<input checked="" type="checkbox"/>	ap-south-1a	subnet-02ec55f37...	172.31.32.0/20	
<input checked="" type="checkbox"/>	ap-south-1c	subnet-042214fbf...	172.31.16.0/20	
<input checked="" type="checkbox"/>	ap-south-1b	subnet-0f02f1f9fa...	172.31.0.0/20	

Task #40020: Save ChatGPT Configure instance: .create an environ Deploying ASP.NET Roles | IAM | Glob...

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment?applicationName=my_application

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

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 MB/s

Amazon CloudWatch monitoring

The time interval between when metrics are reported from the EC2 instances. Monitoring interval 5 minute

Task #40020: Save ChatGPT Configure instance: .create an environ Deploying ASP.NET Roles | IAM | Glob...

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment?applicationName=my_application

EC2 security groups Select security groups to control traffic.

EC2 security groups (3)

Filter security groups

<input checked="" type="checkbox"/>	Group name	Group ID	Name
<input checked="" type="checkbox"/>	default	sg-0ecc7ac81226ceda5	
<input type="checkbox"/>	launch-wizard-1	sg-0a269f1d5bc76925a	
<input type="checkbox"/>	rocketmailing	sg-09517d26e4a0cb93	

Capacity

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

Task #40020: Save x ChatGPT x Configure updates: x .create an environ: x Deploying ASP x Roles | IAM | Glob: x +

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment?applicationName=my_application

Services Search [Alt+S]

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 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

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

Lifecycle

CloudShell Feedback

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1:32 PM 09/07/2024

Task #40020: Save x ChatGPT x Configure environ: x .create an environ: x Deploying ASP x Roles | IAM | Glob: x +

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment?applicationName=my_application

Services Search [Alt+S]

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

Review info

Step 1: Configure environment Edit

Environment information

Environment tier	Web server environment	Application name	my_application
Environment name	Myapplication-environment	Application code	Sample application
Platform	amazon-elasticbeanstalk-ap-south-1-platform/Python 3.11 running on 64-bit Amazon Linux 2023/4.1.1		

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.

Service role	EC2 key pair	EC2 instance profile
aws-iam:851725625270/role/service-role/aws-elasticbeanstalk-service-role	key_rocketmail	beanstalks-iam-role

CloudShell Feedback

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1:32 PM 09/07/2024

Task #40020: Save x ChatGPT x Environment over: x .create an environ: x Deploying ASP x Roles | IAM | Glob: x +

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environment/dashboard?environmentId=e-pxi5x9wint

Services Search [Alt+S]

Elastic Beanstalk

Applications

Environments

Change history

Application: my_application

Application versions

Saved configurations

Environment: Myapplication-environment

Go to environment E

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Recent environments

Environment: Myapplication-environment

CloudShell Feedback

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

Elastic Beanstalk > Environments > Myapplication-environment

Myapplication-environment info

Actions Upload and deploy

Environment overview

Health	Unknown	Environment ID	e-pxi5x9wint
Domain	-	Application name	my_application

Platform Change version

Platform

Python 3.11 running on 64-bit Amazon Linux 2023/4.1.1

Running version

Platform state

Supported

Events (2) info

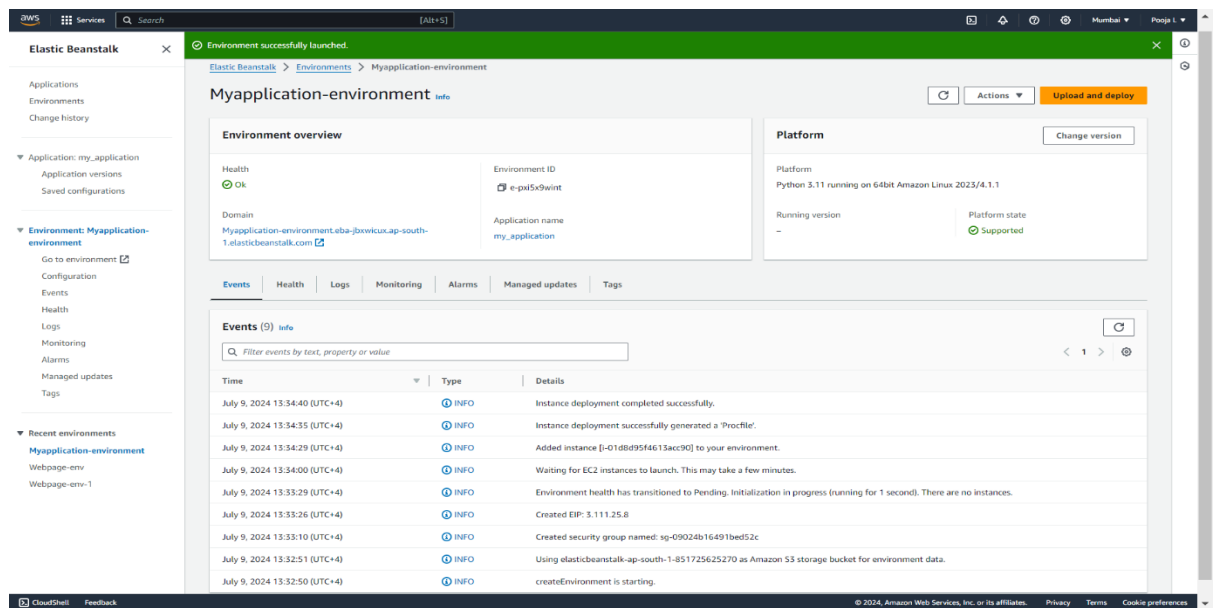
Filter events by text, property or value

Time	Type	Details
July 9, 2024 13:32:51 (UTC+4)	INFO	Using elasticbeanstalk-ap-south-1-851725625270 as Amazon S3 storage bucket for environment data.
July 9, 2024 13:32:50 (UTC+4)	INFO	createEnvironment is starting.

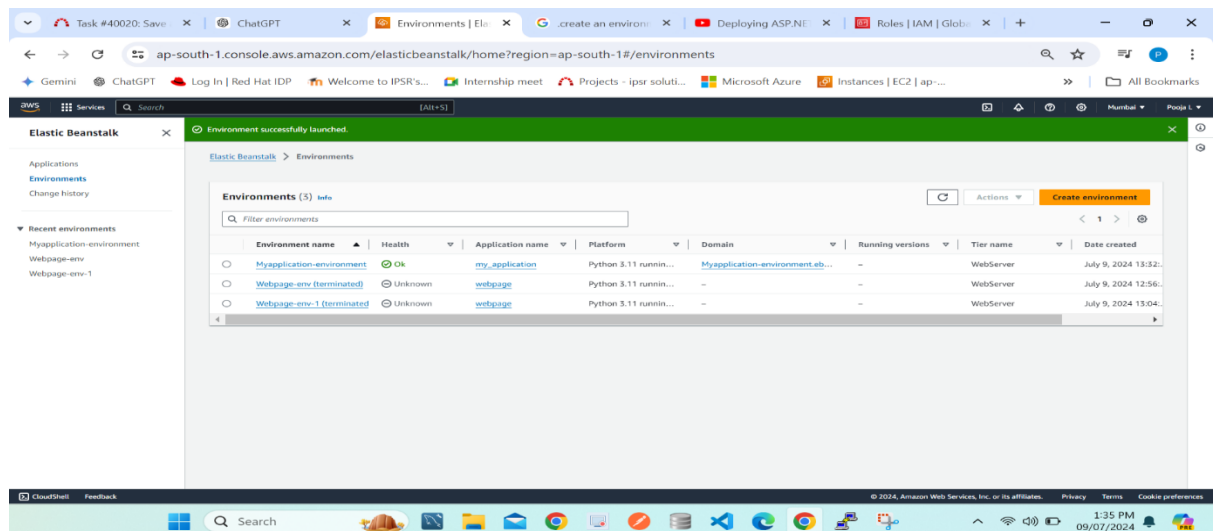
CloudShell Feedback

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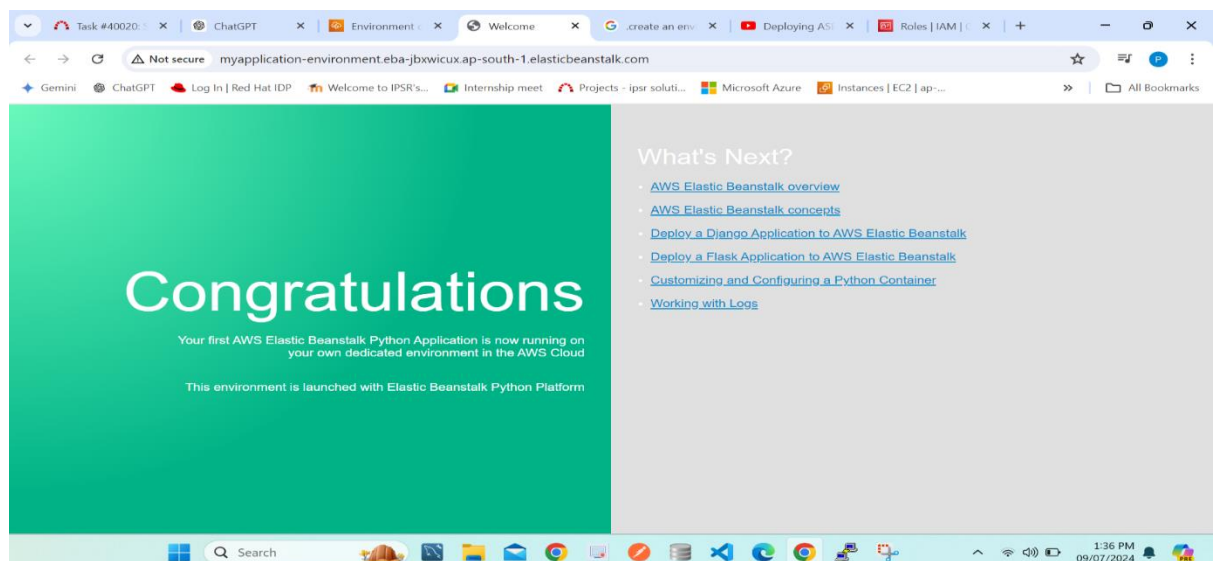
1:32 PM 09/07/2024



Environment Created Successfully



Launch the Domain



6. Choose the created Environment for further changes

- Select the Environment:
 - Once the environment is created, it will appear in the list under your application on the Elastic Beanstalk dashboard.
 - Click on the name of the environment you just created to open its dashboard.
- Modify Environment Configuration:
 - In the environment dashboard, look for the Configuration link on the left side of the page and click it
- Update Configuration:
 - On the configuration page, you will see different sections such as Software, Capacity, Load Balancer, and more.
 - Click on any section to make changes. For example, to change the instance type, click on the Capacity section, make your changes, and click Apply.

Configure instance traffic and scaling

Instances [info](#)
Configure the Amazon EC2 instances that run your application.

Root volume (boot device)

Root volume type:

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

IOPS: IOPS
Input/output operations per second for a provisioned IOPS EBS volume.

Throughput: MB/s
The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance.

Amazon CloudWatch monitoring
The time interval between when metrics are reported from the EC2 instances.

Monitoring interval:

Instance metadata service (IMDS)
Your environment platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. [Learn more](#)

IMDSv1: ☒ **Deactivated**
With the current setting, the environment enables only IMDSv2.

EC2 security groups
Select security groups to control traffic.

EC2 security groups (4)

<input checked="" type="checkbox"/>	Group name	Group ID	Name
<input checked="" type="checkbox"/>	aws-ec2-jpgjkwf-slack-A...	sg-0c4d0b0e52739dc	MyApplication-env
<input type="checkbox"/>	default	sg-0cc7c03122c0d05	
<input type="checkbox"/>	launch-wizard-1	sg-0a26f7d50c7692a	
<input checked="" type="checkbox"/>	rocketmailsg	sg-0951712864a0b0e59	

Capacity [info](#)

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Task #40020: Save an Elastic Beanstalk Environment Configuration | Create & configure AWS environment | Configure networking and database | Roles | IAM | Global

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/environment/configuration/security-networking-database/environment...

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-0fae9425a9147893b | (172.31.0.0/16)

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"/> ap-south-1a	subnet-02ee55f37...	172.31.32.0/20	
<input checked="" type="checkbox"/> ap-south-1c	subnet-042214bf...	172.31.16.0/20	
<input type="checkbox"/> ap-south-1b	subnet-0f02f1f9fa...	172.31.0.0/20	

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11:33 PM 09/07/2024

Elastic Beanstalk > Environment > Application-env > Configuration

Configure updates, monitoring, and logging

Monitoring

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

System
☐ Basic
☒ 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

Lifecycle
Keep logs after terminating environment

Managed platform updates

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

Managed updates
☒ Activated

Managed actions role
arn:awsiam::d51f2562d270:role/service-role/elasticbeanstalk-service-role

Weekly update window
Wednesday at 11:32 UTC

Update level
Minor and patch

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

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Platform software

Specify the platform software to use for your application. These include the proxy server and OS environment properties. [Learn more](#)

Container options

Proxy server
Amazon

WSGIPath
The file that contains the WSGI application.
application

NumProcesses
The number of daemon processes that should be started for the process group.
1

NumThreads
The number of threads to create to handle requests in each daemon process.
15

Amazon X-Ray

Amazon X-Ray is a service that collects data about the requests and responses that your application sends and receives. You can use the tool that X-Ray offers to view and filter the data that is provided to identify potential issues and performance opportunities.

X-Ray daemon
Install (charges may apply)
☐ Activated

S3 log storage

Configure the instances in your environment to upload rotated logs to Amazon S3. [Learn more](#)

Rotate logs
Standard S3 (charges apply)
☐ Activated

Instance log streaming to CloudWatch Logs

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

Log streaming
☐ Activated (standard CloudWatch charges apply)

Retention
7

Lifecycle
Keep logs after terminating environment

Environment properties

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

Name
PYTHONPATH /var/app/python/staging/L2PT1GSL/Git Remove

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Environment update successfully completed.

Events (50) Info

Filter events by text, property or value

Time	Type	Details
July 9, 2024 23:36:25 (UTC+4)	INFO	Environment update completed successfully.
July 9, 2024 23:36:25 (UTC+4)	INFO	Successfully deployed new configuration to environment.
July 9, 2024 23:36:23 (UTC+4)	INFO	Environment health has transitioned from Ok to Info. Configuration update in progress. 1 out of 1 instance completed (running for 44 seconds).
July 9, 2024 23:36:03 (UTC+4)	INFO	Instance deployment completed successfully.
July 9, 2024 23:35:55 (UTC+4)	INFO	Instance deployment successfully generated a 'Profile'.
July 9, 2024 23:35:34 (UTC+4)	INFO	Updating environment Myapplication-env's configuration settings.
July 9, 2024 23:35:28 (UTC+4)	INFO	Environment update is starting.
July 9, 2024 23:34:25 (UTC+4)	INFO	Environment update completed successfully.
July 9, 2024 23:34:25 (UTC+4)	INFO	Successfully deployed new configuration to environment.
July 9, 2024 23:34:23 (UTC+4)	INFO	Removed instance [i-04b5b26df681593ad] from your environment.
July 9, 2024 23:33:47 (UTC+4)	INFO	Updating environment Myapplication-env's configuration settings.
July 9, 2024 23:33:42 (UTC+4)	INFO	Environment update is starting.
July 9, 2024 23:33:23 (UTC+4)	INFO	Added instance [i-05d7b3cb744dd7f19] to your environment.
July 9, 2024 23:33:05 (UTC+4)	INFO	Environment update completed successfully.
July 9, 2024 23:33:05 (UTC+4)	INFO	Successfully deployed new configuration to environment.
July 9, 2024 23:32:44 (UTC+4)	INFO	Created Auto Scaling launch configuration named: aws-eb-jvj3qvwf-stack-AWSEBAutoScalingLaunchConfiguration-myDw6ME15TT
July 9, 2024 23:32:28 (UTC+4)	INFO	Updating environment Myapplication-env's configuration settings.
July 9, 2024 23:32:23 (UTC+4)	INFO	Environment update is starting.
July 9, 2024 23:27:27 (UTC+4)	INFO	Successfully launched environment: Myapplication-env
July 9, 2024 23:27:25 (UTC+4)	INFO	Application available at Myapplication-env-eba-t3fmmrk-m.ap-south-1.elasticbeanstalk.com.

Elastic Beanstalk is terminating your environment.

Change history (3) Info

Filter results by a string or value

Date	IAM user	Event source	Environment	Configuration changes
July 9, 2024 23:35:29 (UTC+4)	root	elasticbeanstalk.amazonaws.com	Myapplication-env	Changes made
July 9, 2024 23:35:43 (UTC+4)	root	elasticbeanstalk.amazonaws.com	Myapplication-env	Changes made
July 9, 2024 23:32:24 (UTC+4)	root	elasticbeanstalk.amazonaws.com	Myapplication-env	Changes made

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](#)

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.

Output after Change the configuration details

myapplication-env-eba-t3fmmrk-m.ap-south-1.elasticbeanstalk.com

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)
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