

Assignment – 5

Objective:

- Deploying a sample application on Elastic Beanstalk
- Create an Application
- Launch the webpage and verify

aws

Services

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Change history

Compute

Press **F11** to exit full screen

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.

Getting Started

Launch a web application

More resources

Documentation

FAQ

Forum

How it works

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](#)

Benefits and features

Easy to get started

Elastic Beanstalk is the simplest way to deploy and run your web application on Amazon Web Services. Elastic Beanstalk automatically handles the deployment details of capacity provisioning, load balancing, automatic scaling, and web application health monitoring.

Complete resource control

You have the freedom to select the Amazon Web Services resources, such as Amazon EC2 instance types, that are optimal for your web application. Additionally, Elastic Beanstalk lets you manage and retain full control over the Amazon Web Services resources powering your web application.

Feedback

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Application information

Application name

maazapp

Up to 100 Unicode characters, not including forward slash (/).

Application 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](#)

Key

Value

Remove tag

Add tag

50 remaining

Platform

Platform

Python

Platform branch

Python 3.8 running on 64bit Amazon Linux 2

Platform version

3.3.5 (Recommended)

Application code

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Info

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Connect

Instance state

Actions

Launch instances

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	ec2-18-116-13-247.us-...	18.116.13.247
<input checked="" type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	-	3.143.226.143

Instance: i-04ce03fa22611a719 (Maazserver1)

Private IPv4 DNS

ip-24-0-0-135.us-east-2.compute.internal

VPC ID

vpc-06c3daf54132cab34 (maazvpc)

Subnet ID

subnet-08d1b50252edbc423 (subnet1)

Instance details

Info

Platform

Amazon Linux (Inferred)

Platform details

Linux/UNIX

Instance type

t2.micro

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Elastic IP addresses

-

IAM Role

-

AMI ID

ami-00dfe2c7ce89a450b

AMI name

amzn2-ami-hvm-2.0.20210813.1-x86_64-gp2

Monitoring

disabled

Termination protection

Enabled

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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](#)

Key

Value

Remove tag

Add tag

50 remaining

Platform

Platform

Python

Platform branch

Python 3.8 running on 64bit Amazon Linux 2

Platform version

3.3.5 (Recommended)

Application code

☒ Sample application

Get started right away with sample code.

☐ Upload your code

Upload a source bundle from your computer or copy one from Amazon S3.

Cancel

Configure more options

Create application

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Change history

▼ maazapp

Application versions

Saved configurations

▶ Maazapp-env

Elastic Beanstalk > Environments > Maazapp-env

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Creating Maazapp-env

This will take a few minutes.

9:04pm

Using elasticbeanstalk-us-east-2-935423687278 as Amazon S3 storage bucket for environment data.

9:04pm

createEnvironment is starting.

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Instances | EC2 Management Cor x

Your Repositories x

Create environment x

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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:

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Lifecycle Manager New

Instances (2/2) Info

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm sta
<input checked="" type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Running	t2.micro	2/2 checks passed	No alarm
<input checked="" type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Running	t2.micro	2/2 checks passed	No alarm

Instances: i-04ce03fa22611a719 (Maazserver1), i-0173ee5b2a851ad01 (Maazserver)

Monitoring

Refresh

Connect

Instance state

Actions

Launch Instances

Stop instance

Start instance

Reboot instance

Hibernate instance

Terminate instance

Public IPv4 DNS

Public IPv4

Waiting for us-east-2.console.aws.amazon.com... © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

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Instances (2/3)

Info

Filter Instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	ec2-18-116-13-247.us-...	18.116.13.247
<input checked="" type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	-	3.143.226.143
<input type="checkbox"/>	Maazapp-env	i-07171a7ec3d6d6a18	Running	t2.micro	Initializing	No alarms	us-east-2b	ec2-3-128-182-34.us-e...	3.128.182.34

Instances: i-04ce03fa22611a719 (Maazserver1), i-0173ee5b2a851ad01 (Maazserver)

Monitoring

1h 3h 12h 1d 3d 1w Custom

Add to dashboard

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Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
<input checked="" type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	ec2-18-116-13-247.us-...	18.116.13.247
<input checked="" type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	—	3.143.226.143
<input type="checkbox"/>	Maazapp-env	i-07171a7ec3d6d6a18						ec2-3-128-182-34.us-e...	3.128.182.34

Instances: i-04ce03fa22611a719 (Maazserver1),

Monitoring

Connect

Instance state

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Launch instances

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Custom

Add to dashboard

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Terminate instances?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

i-04ce03fa22611a719 (Maazserver1)

i-0173ee5b2a851ad01 (Maazserver)

Clean up associated resources

Associated resources may incur costs after these instances are terminated.

Delete EBS volumes

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel

Terminate

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Disabled termination protection for i-0173ee5b2a851ad01

Successfully terminated i-0173ee5b2a851ad01

Instances (1/3)

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
<input checked="" type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-2a	ec2-18-116-13-247.us-...	18.116.13.2
<input type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	-	3.143.226.1
<input type="checkbox"/>	Maazapp-env	i-07171a7ec3d6d6a18	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	ec2-3-128-182-34.us-e...	3.128.182.3

Instance: i-0173ee5b2a851ad01 (Maazserver)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Instance ID

i-0173ee5b2a851ad01 (Maazserver)

IPv6 address

-

Private IPv4 DNS

ip-172-31-10-56.us-east-2.compute.internal

VPC ID

Public IPv4 address

18.116.13.247 | open address

Instance state

Shutting-down

Instance type

t2.micro

AWS Compute Optimizer finding

Private IPv4 addresses

172.31.10.56

Public IPv4 DNS

ec2-18-116-13-247.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

-

IAM Role

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Disabled termination protection for i-04ce03fa22611a719

Successfully terminated i-04ce03fa22611a719

Instances (1/3)

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Pub
<input type="checkbox"/>	Maazserver	i-0173ee5b2a851ad01	Terminated	t2.micro	–	No alarms	us-east-2a	–	–
<input checked="" type="checkbox"/>	Maazserver1	i-04ce03fa22611a719	Terminated	t2.micro	–	No alarms	us-east-2b	–	–
<input type="checkbox"/>	Maazapp-env	i-07171a7ec3d6d6a18	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	ec2-3-128-182-34.us-e...	3.12

Instance: i-04ce03fa22611a719 (Maazserver1)

Details

Security

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Storage

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Tags

Instance summary

Instance ID

i-04ce03fa22611a719 (Maazserver1)

IPv6 address

–

Instance type

t2.micro

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Public IPv4 address

–

Instance state

Terminated

Elastic IP addresses

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IAM Role

–

Private IPv4 addresses

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Public IPv4 DNS

–

VPC ID

–

Subnet ID

–

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All environments

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Create a new environment

Filter results matching the display values

< 1 >

	Environment name	Health	Application name	Date created	Last modified	URL	Running versions	Platform	Platform state	Tier name
	Maazapp-env	Ok	maazapp	2021-09-13 21:04:15 UTC+0530	2021-09-13 21:07:52 UTC+0530	Maazapp-env.eba-qimbyn5m.us-east-2.elasticbeanstalk.com	Sample Application	Python 3.8 running on 64bit Amazon Linux 2	Supported	WebServer

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▼ Maazapp-env

Go to environment

Configuration

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Health

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Elastic Beanstalk > Environments > Maazapp-env

Maazapp-env

Maazapp-env.eba-qimbyn5m.us-east-2.elasticbeanstalk.com (e-m2yzfiypys)

Application name: maazapp

Refresh

Actions

Health

Ok

Causes

Running version

Sample Application

Upload and deploy

Platform

Python 3.8 running on 64bit Amazon Linux 2/3.3.5

Change

Recent events

Show all

< 1 >

Time	Type	Details
2021-09-13 21:07:56 UTC+0530	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 8 seconds ago and took 3 minutes.
2021-09-13 21:07:56 UTC+0530	INFO	Added instance [i-07171a7ec3d6d6a18] to your environment.
2021-09-13 21:07:52 UTC+0530	INFO	Successfully launched environment: Maazapp-env
2021-09-13 21:07:51 UTC+0530	INFO	Application available at Maazapp-env.eba-qimbyn5m.us-east-2.elasticbeanstalk.com.
2021-09-13 21:07:38 UTC+0530	INFO	Instance deployment completed successfully.

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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](#)