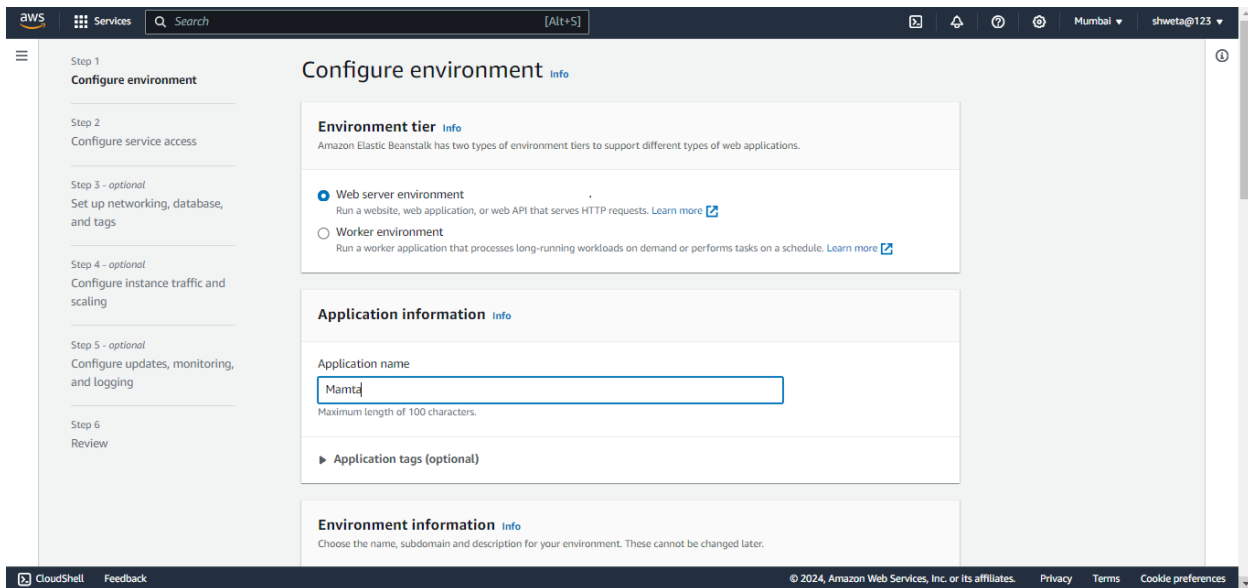


DEPLOY AND HOST A WEBSITE USING ELASTIC BEANSTALK

- Open the elastic beanstalk and in the region list select aws region. In the navigation panel choose environment and then choose the name of the environment.



The screenshot shows the AWS Elastic Beanstalk 'Configure environment' console page. The left sidebar contains a navigation menu with steps: Step 1: Configure environment (selected), 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. The main content area is titled 'Configure environment' and includes sections for 'Environment tier' (with 'Web server environment' selected), 'Application information' (with 'Application name' set to 'Mamta'), and 'Environment information'. The footer shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

- Choose the platform in the platform type and select managed platform and the presets is single instance.

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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

PHP

Platform branch

PHP 8.2 running on 64bit Amazon Linux 2023

Platform version

4.1.1 (Recommended)

Application code info

☒ Sample application
Application versions that you have uploaded.

☐ Existing version

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

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Application code info

☒ Sample application
Application versions that you have uploaded.

☐ Existing version

☐ 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

No VPCs found

To create a load balanced environment you must first have a VPC with Subnets in this region.

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- Launch an ec2 instance

The image displays two screenshots from the AWS Management Console. The top screenshot shows the 'Instances' page with a table of EC2 instances. The bottom screenshot shows the 'Configure service access' step in the Elastic Beanstalk console.

Top Screenshot: AWS Management Console - Instances

The 'Instances' page shows a table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
MamtaRajan	i-0bb62140ae83e61f3	Running	t2.micro	Initializing	View alarms	ap-south-1b	ec2-13-235-6

Bottom Screenshot: Elastic Beanstalk - Configure service access

The 'Configure service access' step shows the following configuration:

- Service role:** Use an existing service role (selected). Existing service roles: aws-elasticbeanstalk-service-role.
- EC2 key pair:** rajan.
- EC2 instance profile:** ec2.

Buttons at the bottom: Cancel, Skip to review, Previous, Next.

- Add a vpc and activate public ip address and select two public subnets.

Set up networking, database, and tags - optional

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-04d2fa0dd35c6b26d | (10.0.0.0/16) | project-vpc

[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 type="checkbox"/>	ap-south-1a	subnet-0169d387e...	10.0.128.0/20	project-subnet-pri...
<input type="checkbox"/>	ap-south-1b	subnet-01e02b9d8...	10.0.144.0/20	project-subnet-pri...
<input checked="" type="checkbox"/>	ap-south-1b	subnet-0888053a1...	10.0.16.0/20	project-subnet-pu...
<input checked="" type="checkbox"/>	ap-south-1a	subnet-0ee02602d...	10.0.0.0/20	project-subnet-pu...

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)

- The root volume, amazon cloud watch monitoring and auto scaling group are selected by default.

Configure instance traffic and scaling - optional

Instances

Configure the Amazon EC2 instances that run your application.

Root volume (boot device)

Root volume type: (Container default)

Size: 8 GB

IOPS: 100

Throughput: 125 MIB/s

Amazon CloudWatch monitoring

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

Monitoring interval: 5 minute

Instance metadata service (IMDS)

Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. [Learn more](#)

IMDSv1: ☒ Deactivated

EC2 security groups

Select security groups to control traffic.

EC2 security groups (2)

Filter security groups

<input type="checkbox"/>	Group name	Group ID	Name
<input type="checkbox"/>	default	sg-Odd87d8ef0ea2d3fe	
<input type="checkbox"/>	launch-wizard-1	sg-0054519922561e014	

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.

- In health monitoring select basic system.

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

- Review the whole process.

The image displays two screenshots of the AWS Elastic Beanstalk console, showing the 'Review' step of the environment creation process. The top screenshot shows the 'Step 1: Configure environment' section, and the bottom screenshot shows the 'Step 2: Configure service access' and 'Step 3: Set up networking, database, and tags' sections.

Step 1: Configure environment

Environment information

Environment tier Web server environment	Application name Mamta
Environment name Mamta-env	Application code Sample application
Platform arn:aws:elasticbeanstalk:ap-south-1::platform/PHP 8.2 running on 64bit Amazon Linux 2023/4.1.1	

Step 2: Configure service access

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 arn:aws:iam::730335337813:role/service-role/aws-elasticbeanstalk-service-role	EC2 key pair rajan	EC2 instance profile ec2
---	-----------------------	-----------------------------

Step 3: Set up networking, database, and tags

Networking, database, and tags [Info](#)

Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.

Network

VPC vpc-04d2fa0dd35c6b26d	Public IP address true	Instance subnets subnet-0888053a106b02abe,subnet-0ee02602d71d745f8
------------------------------	---------------------------	---

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Step 4: Configure instance traffic and scaling

Edit

Instance traffic and scaling

Customize the capacity and scaling for your environment's instances. Select security groups to control instance traffic. Configure the software that runs on your environment's instances by setting platform-specific options.

Instances

IMDSv1
Deactivated

Capacity

Environment type	Fleet composition	On-demand base
Single instance	On-Demand instance	0
On-demand above base	Capacity rebalancing	Scaling cooldown
0	Deactivated	360
Processor type	Instance types	AMI ID
x86_64	t3.micro,t3.small	ami-09a8a07a7c72990e4
Availability Zones	Metric	Statistic
Any	NetworkOut	Average
Unit	Period	Breach duration

CloudShell

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Step 5: Configure updates, monitoring, and logging

Edit

Updates, monitoring, and logging

Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

Monitoring

System	Cloudwatch custom metrics - instance	Cloudwatch custom metrics - environment
basic	—	—
Log streaming	Retention	Lifecycle
Deactivated	7	false

Updates

Managed updates	Deployment batch size	Deployment batch size type
Deactivated	100	Percentage
Command timeout	Deployment policy	Health threshold
600	AllAtOnce	Ok
Ignore health check	Instance replacement	
false	false	

CloudShell

Feedback

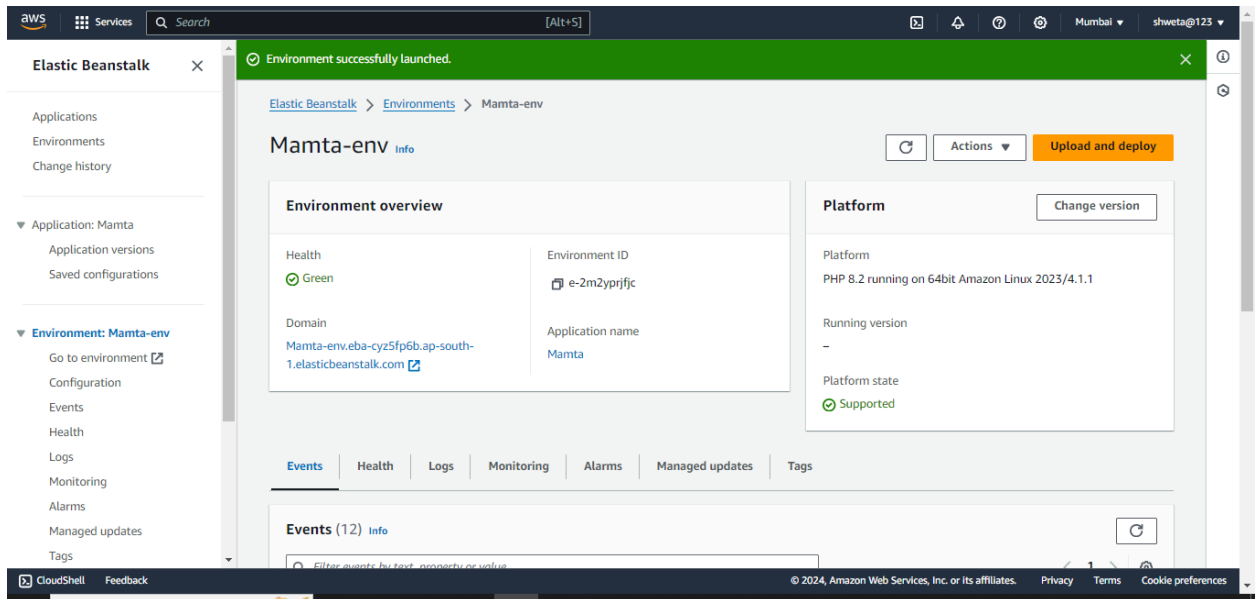
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- In the environment overview the health is green and we can see a domain name.



- Copy the domain name and open in a new tab we can see the web page of a beanstalk using php platform.

