

## Elastic beanstalk

Automation of your application deployment but here you need to Manage the servers.

Elastic beanstalk

upload the code and AWS will deploy your code in EC2 Machines and you would be able to manage those servers. (EC2 Machine)

Diagram illustrating the workflow:

- app code (circled in pink)
- Elastic Beanstalk
- upload to EB
- EC2 (circled in pink)
- LB (Load Balancing)
- Manage (indicated by a blue arrow pointing to the EC2 and LB components)

The diagram shows a flow from 'app code' to 'Elastic Beanstalk', then 'upload to EB', leading to a group of 'EC2' and 'LB' components. A blue arrow labeled 'Manage' points to this group. The entire diagram is enclosed in a blue oval.

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

- 1) Go to elastic beanstalk
- 2) Create application

ap-southeast-2.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-2#/create-environment

aws Services Search [Alt+S] Sydney SamjayGarer

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

### 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

akshat-eb-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.

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ap-southeast-2.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-2#/create-environment

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► Application tags (optional)

### Environment information [Info](#)

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name

Akshat-eb-app-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

akshat123 .ap-southeast-2.elasticbeanstalk.com

✓ akshat123.ap-southeast-2.elasticbeanstalk.com is available

Environment description

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ap-southeast-2.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-2#/create-environment

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Platform version  
3.5.7 (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)

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ap-southeast-2.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-2#/create-environment

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Platform  
PHP

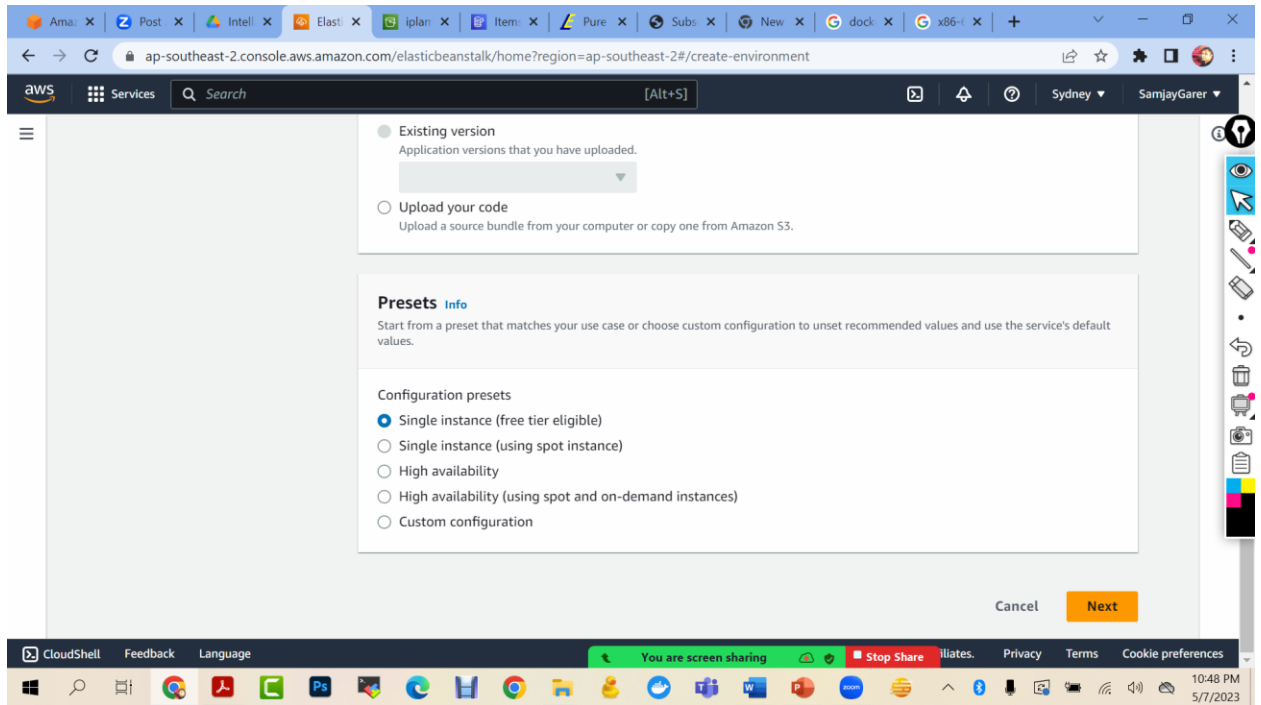
Platform branch  
PHP 8.1 running on 64bit Amazon Linux 2

Platform version  
3.5.7 (Recommended)

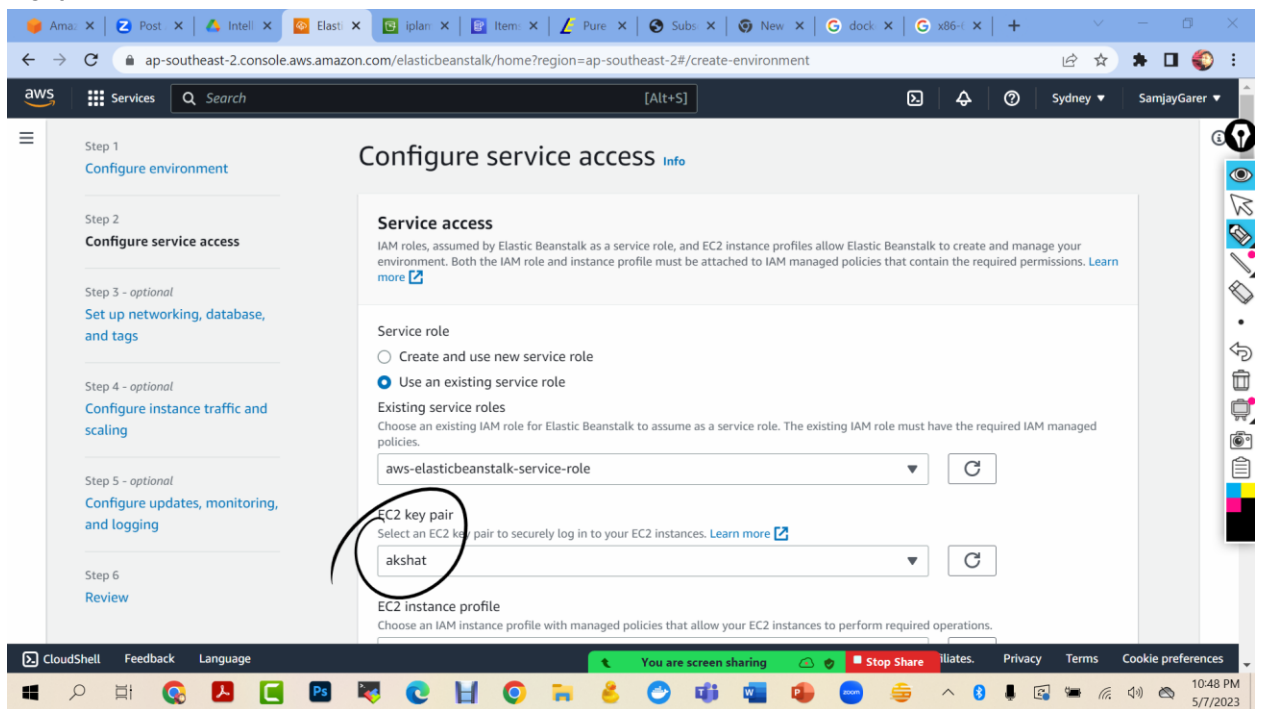
**Application code** [Info](#)

☒ 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.



Next



Next

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

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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-02e7009bab41e7ec6 | (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

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Step 6  
Review

#### Public IP address

Assign a public IP address to the Amazon EC2 instances in your environment.

☒ Activated

### Instance subnets

<input checked="" type="checkbox"/>	Availability Zone	Subnet	CIDR	Name
<input checked="" type="checkbox"/>	ap-southeast-2b	subnet-038621ca9...	172.31.32.0/20	
<input checked="" type="checkbox"/>	ap-southeast-2a	subnet-0671662dc...	172.31.0.0/20	
<input checked="" type="checkbox"/>	ap-southeast-2c	subnet-08ec4f3a7...	172.31.16.0/20	

### Database [Info](#)

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

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Amazon Elastic Beanstalk console - ap-southeast-2 region

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

### Instances

Configure the Amazon EC2 instances that run your application.

#### Root volume (boot device)

Root volume type: General Purpose (SSD)

Size: 8 GB

IOPS: 125 MIB/s

Throughput: 125 MIB/s

Instance metadata service: You are screen sharing

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Participants: 38

Chat: Q&A

New Share: Pause Share

Annotate: Remote Control

Apps: More

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Next

Amazon Elastic Beanstalk console - ap-southeast-2 region

IMDSv1: Deactivated

### EC2 security groups

Select security groups to control traffic.

#### EC2 Security groups (21)

Filter security groups

Group name	Group ID	Name
<input type="checkbox"/> anuradha-efs-sg	sg-0eec05b4c90f0d346	
<input checked="" type="checkbox"/> default	sg-0d6c33d2e71b18273	
<input type="checkbox"/> efs-sg-sri	sg-0f5ffca7ef92400f1	
<input type="checkbox"/> harini-efs-sg	sg-0b01127176b365516	
<input type="checkbox"/> incedo-shivani-DB-sg		

CloudShell: Feedback Language

Participants: 37

Chat: Q&A

New Share: Pause Share

Annotate: Remote Control

Apps: More

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Click on next



Step 2  
Configure service access

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### 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**

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Stop Share

### Email notifications Info

Enter an email address to receive email notifications for important events from your environment. [Learn more](#)

**Email**

akshu20791@gmail.com

### Rolling updates and deployments Info

#### Application deployments

Choose how Amazon Elastic Beanstalk propagates source code changes and software configuration updates. [Learn more](#)

**Deployment policy**

All at once

**Batch Size**

☒ Percentage

☐ Fixed

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Next  
Deselect the network security

Submit

It will create the environment and you can access the sample app via the link

The screenshot shows the AWS Elastic Beanstalk console. The top navigation bar includes the AWS logo, 'Services', and a search bar with 'ec2'. The left sidebar shows the 'Elastic Beanstalk' menu with options like 'Applications', 'Environments', and 'Change history'. The main content area displays the 'Akshat-eb-app-env' environment. A blue banner at the top states 'Elastic Beanstalk is launching your environment. This will take a few minutes.' Below this, the 'Environment overview' section shows the environment's health as 'Grey', its ID as 'e-nnhdzumxfn', and its application name as 'akshat-eb-app'. The 'Platform' section shows 'Change version'. A 'You are screen sharing' notification is visible at the bottom of the console window.

The screenshot shows the sample application running on the Elastic Beanstalk environment. The browser address bar displays the URL 'akshat-eb-app-env.eba-kr7cytp.ap-southeast-2.elasticbeanstalk.com'. The main content area features a large 'Congratulations!' message, stating 'Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud' and 'You are running PHP version 8.1.18'. Below this, it says 'This environment is launched with Elastic Beanstalk PHP Platform'. On the right, the 'What's Next?' section provides links to 'AWS Elastic Beanstalk overview', 'Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git', 'Using Amazon RDS with PHP', 'Customizing the Software on EC2 Instances', and 'Customizing Environment Resources'. The 'AWS SDK for PHP' section provides links to 'AWS SDK for PHP home', 'PHP developer center', and 'AWS SDK for PHP on GitHub'. A 'You are screen sharing' notification is visible at the bottom of the browser window.