

## Problem Statement:

You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

## Tasks To Be Performed:

1. Create an Elastic Beanstalk environment with the runtime as PHP.
2. Upload a simple PHP file to the environment once created.

### 1. Create an Elastic Beanstalk environment with the runtime as PHP.

The screenshot shows the AWS Management Console interface for creating an Elastic Beanstalk environment. The browser address bar shows the URL: <https://251985476962-ztjdpcr-us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment>. The console header shows the AWS logo, a search bar, and the account ID: 2519-8547-6962. The left sidebar shows the 'Elastic Beanstalk' menu with a 'Create environment' link. The main content area is titled 'Create environment' and shows a progress bar with steps: 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), and Step 6 (Review). The 'Environment tier' section has two options: 'Web server environment' (selected) and 'Worker environment'. The 'Application information' section has a text input for 'Application name' with the value 'php-app' and a note 'Maximum length of 100 characters'. Below it is a section for 'Application tags (optional)'. The 'Environment information' section has a text input for 'Environment name' with the value 'Php-app-env' and a note '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.' Below this is a 'Domain' section. The 'Platform' section has three dropdowns: 'Platform' (PHP), 'Platform branch' (PHP 8.4 running on 64bit Amazon Linux 2023), and 'Platform version' (4.7.4 (Recommended)). The 'Application code' section has two options: 'Sample application' (selected) and 'Upload your code'. The 'Presets' section has a note 'Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.' and a section for 'Configuration presets' with four options: 'Single instance (free tier eligible)' (selected), 'Single instance (using spot instance)', 'High availability', and 'Custom configuration'.

Edge | AWS Management Console | Environments | Elastic Beanstalk | Configure service access | Elastic | Create Elastic Beanstalk PHP | +

https://251985476962-ztjdpc.us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment

Search [Alt+S] United States (N. Virginia) Account ID: 2519-8547-6962 root

Elastic Beanstalk > Create environment

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 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**  
Choose an IAM role for Elastic Beanstalk to assume as a service role. The IAM role must have the required IAM managed policies.

aws-elasticbeanstalk-service-role [Create role](#)

**EC2 instance profile**  
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

aws-elasticbeanstalk-ec2-role [Create role](#)

**EC2 key pair - optional**  
Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#)

Choose a key pair [Create](#)

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

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https://251985476962-ztjdpc.us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment

Search [Alt+S] United States (N. Virginia) Account ID: 2519-8547-6962 root

Elastic Beanstalk > Create 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

### 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](#)

**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-02196942317add486 | (172.31.0.0/16) [Create VPC](#)

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

☒ Enable

**Instance subnets**

<input checked="" type="checkbox"/>	Availability Zone	Subnet	CIDR	Name
<input checked="" type="checkbox"/>	us-east-1b	subnet-012d590a3c6d19642	172.31.16.0/20	
<input type="checkbox"/>	us-east-1c	subnet-08d2972ac79bdd96d	172.31.32.0/20	
<input type="checkbox"/>	us-east-1d	subnet-0a9ed3914328bcd7c	172.31.0.0/20	
<input type="checkbox"/>	us-east-1e	subnet-0c3e601c1bdf99c4d	172.31.48.0/20	
<input type="checkbox"/>	us-east-1f	subnet-0dffa280838582fa	172.31.64.0/20	

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https://251985476962-ztjdpc-us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment

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### Elastic Beanstalk > Create 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

#### Step 1: Configure environment

**Environment information**

**Environment tier**  
Web server environment

**Application name**  
php-app

**Environment name**  
Php-app-env

**Application code**  
Sample application

**Platform**  
aws:aws:elasticbeanstalk:us-east-1:platform/PHP 8.4 running on 64bit Amazon Linux 2023/4.7.4

**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::251985476962:role/aws-elasticbeanstalk-service-role

**EC2 instance profile**  
aws-elasticbeanstalk-ec2-role

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https://251985476962-ztjdpc-us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/environment/dashboards?environmentId=e-ctzx2jawuh

Search [Alt+S] United States (N. Virginia) Account ID: 2519-8547-6962 root

### Elastic Beanstalk > Environments > Php-app-env

**Elastic Beanstalk**

Applications

Environments

Change history

▼ Application: php-app

Application versions

Saved configurations

▼ Environment: Php-app-env

Go to environment [🔗](#)

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

**Environment successfully launched.**

**Php-app-env** [info](#)

**Environment overview**

**Health**  
Green

**Environment ID**  
e-ctzx2jawuh

**Domain**  
Php-app-env.eba-grpggz5.us-east-1.elasticbeanstalk.com

**Application name**  
php-app

**Platform**

**Platform**  
PHP 8.4 running on 64bit Amazon Linux 2023/4.7.4

**Running version**  
-

**Platform state**  
Supported

**Events (12)** [info](#)

Time	Type	Details
August 22, 2025 09:48:11 (UTC+5:30)	INFO	Successfully launched environment: Php-app-env
August 22, 2025 09:48:10 (UTC+5:30)	INFO	Application available at Php-app-env.eba-grpggz5.us-east-1.elasticbeanstalk.com.



