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.

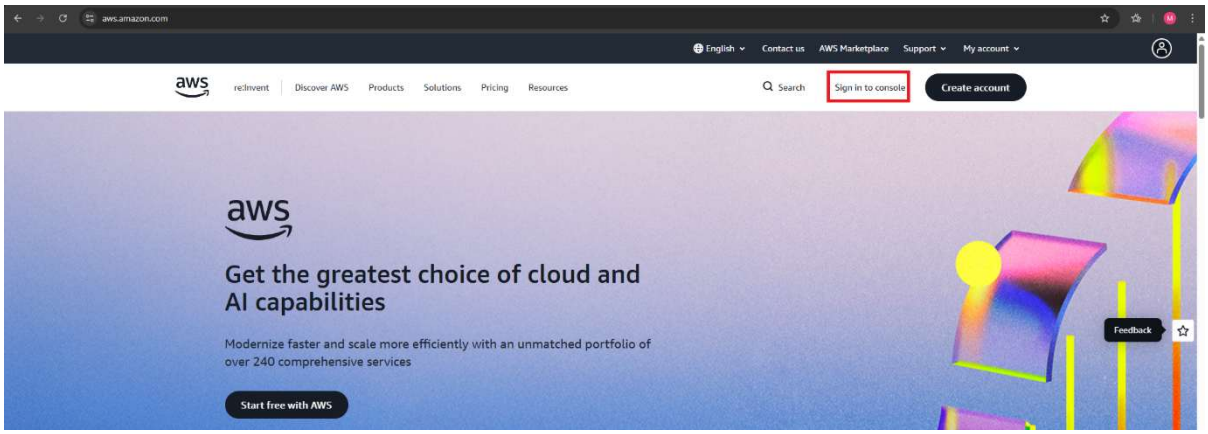
Tasks To Be Performed:

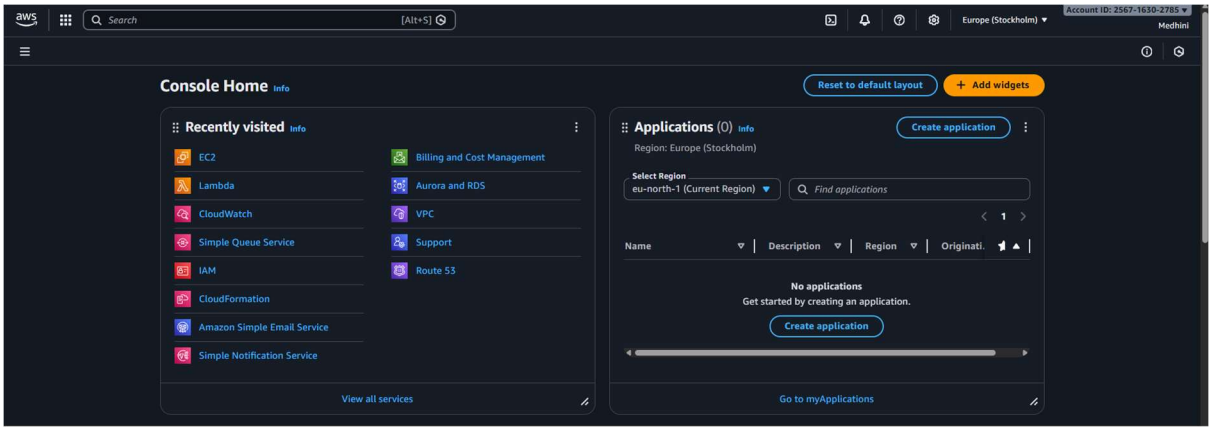
1. Create an Elastic Beanstalk environment with the runtime as PHP.
2. Upload a simple PHP file to the environment once created.

Create Elastic Beanstalk Environment (PHP Runtime)

Step 1: Login to AWS Console

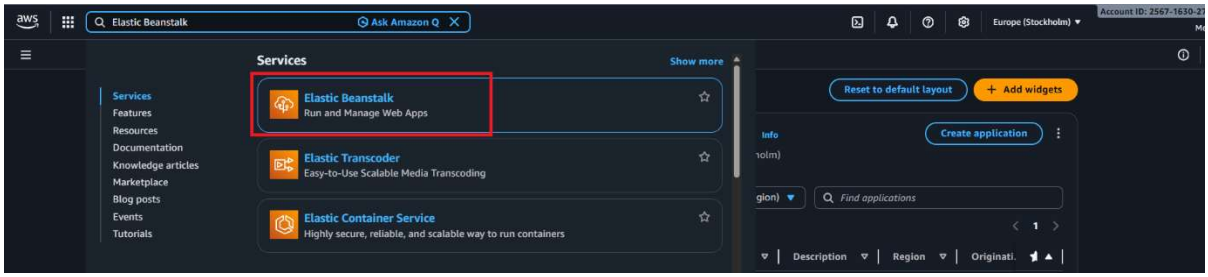
1. Go to - https://aws.amazon.com
2. Click **Sign in to the Console**
3. Login with your credentials





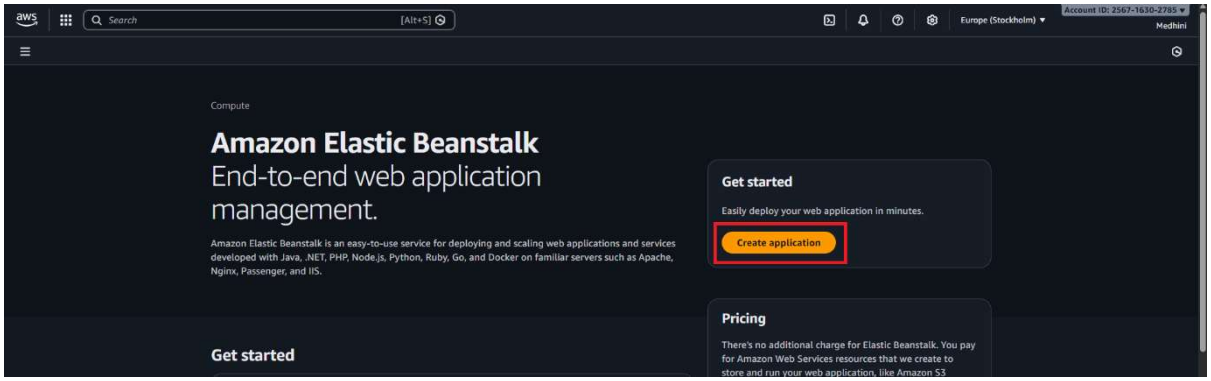
Step 2: Open Elastic Beanstalk

1. In the **Search bar**, type **Elastic Beanstalk**
2. Click **Elastic Beanstalk**



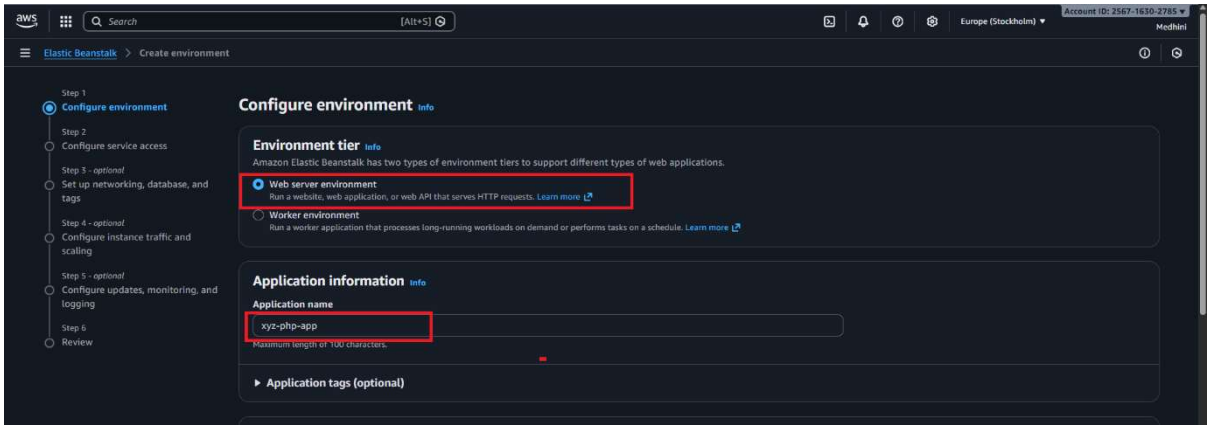
Step 3: Create Application

1. Click **Create application**
2. Fill details:
    - **Application name**: xyz-php-app
    - **Description** (optional): PHP Web Application
3. Click **Next**



Step 4: Environment Settings

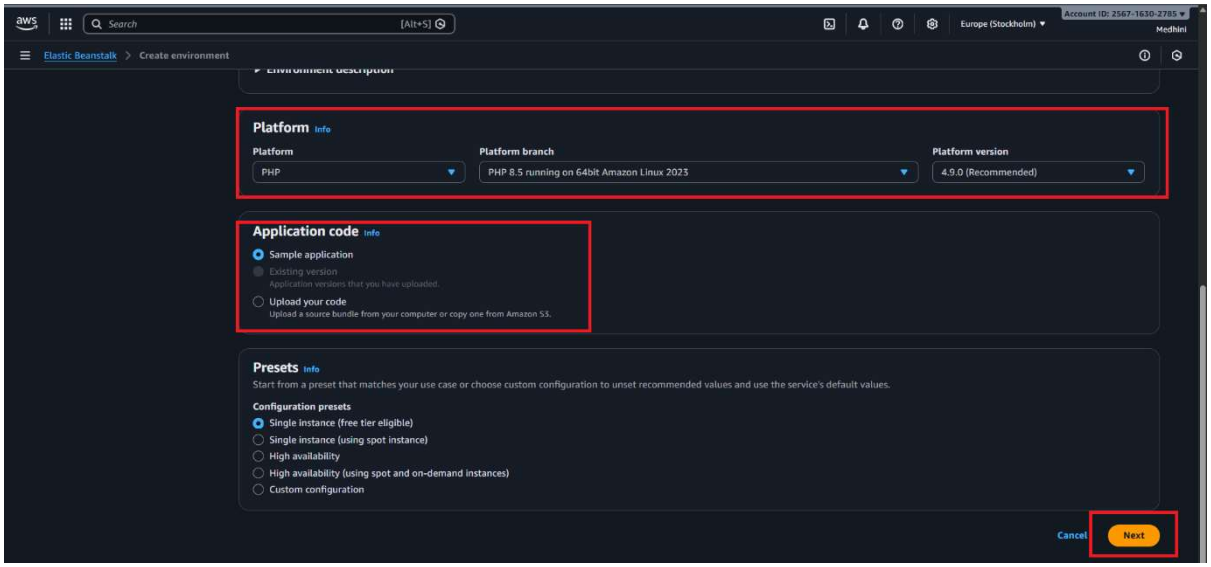
1. **Environment tier** - Select **Web server environment**
2. Click **Next**



Step 5: Platform Configuration

1. **Platform** - Select **PHP**
2. **Platform branch** - PHP 8.x (default)
3. **Platform version** - Keep default
4. **Application code** - Select **Sample application**
    - (We will upload our own PHP file later)

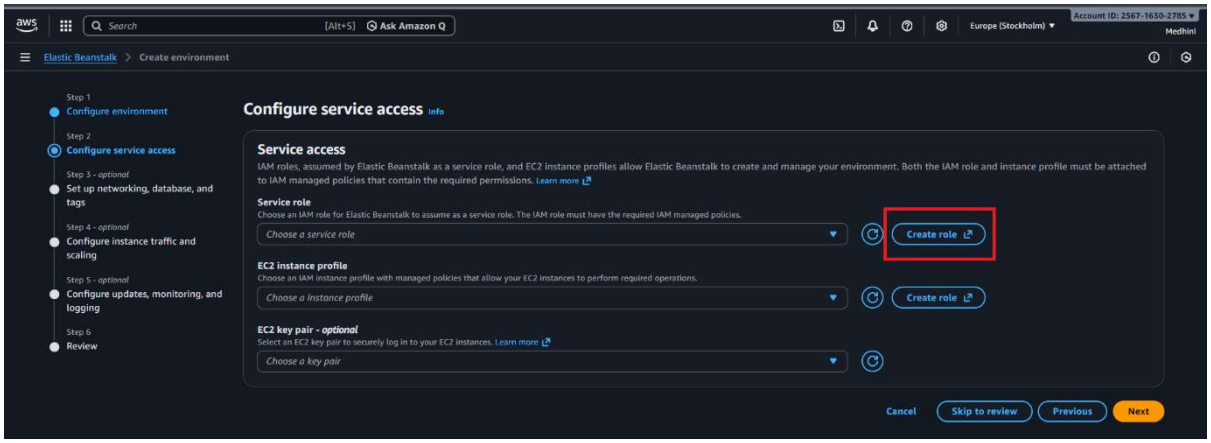
Click **Next**

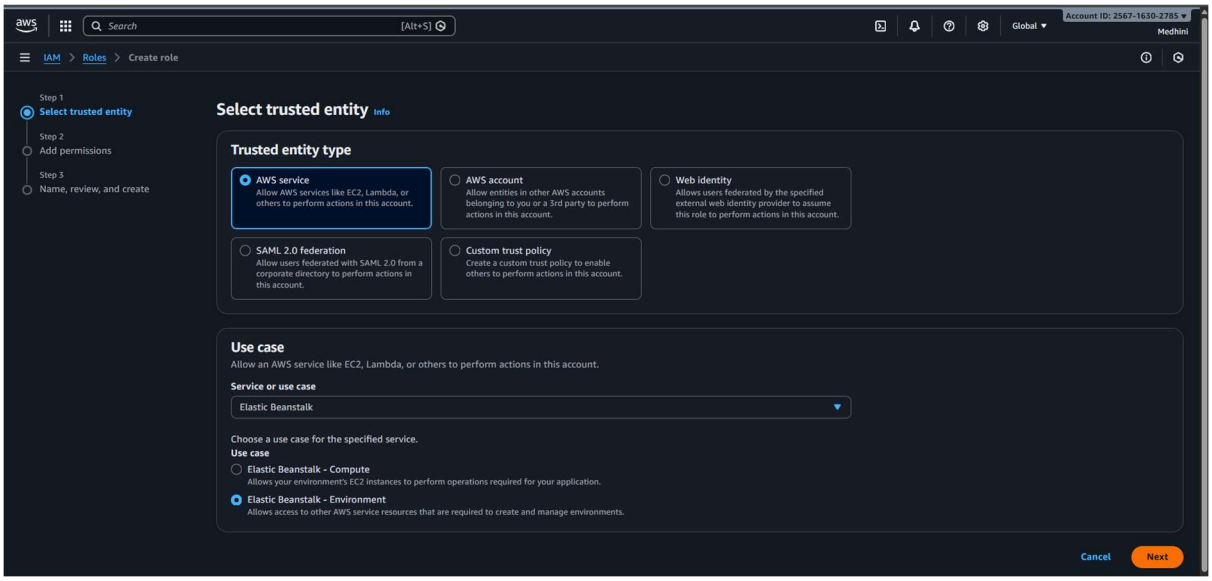


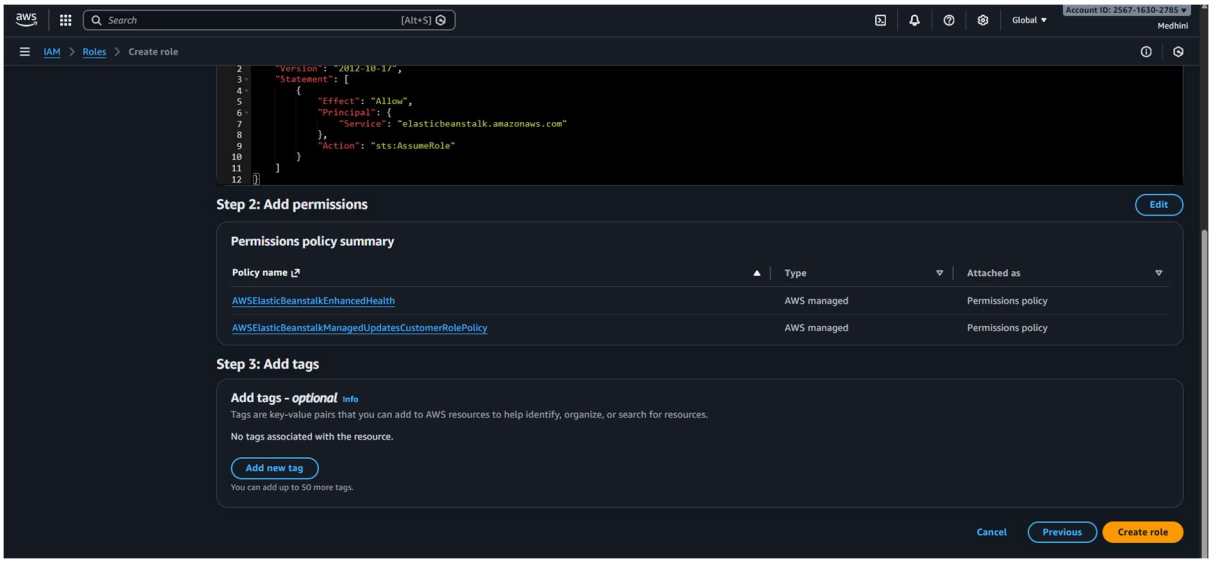
Step 6: Configure Service Access

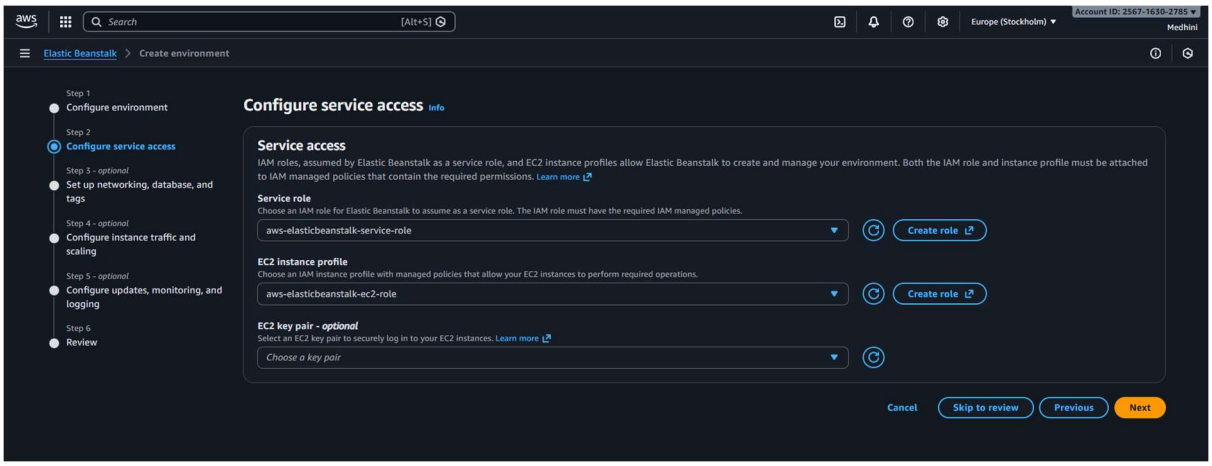
1. **Service role** - Select **Create and use new service role**
2. **EC2 key pair** - Optional (can skip if not required)
3. Click **Next**

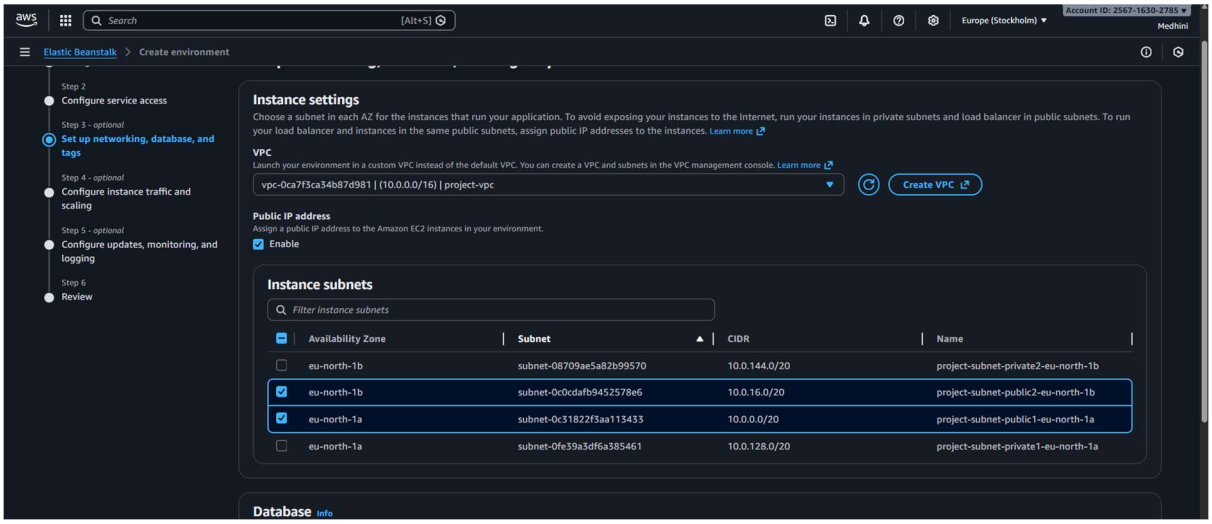
Assignment – Elastic Beanstalk

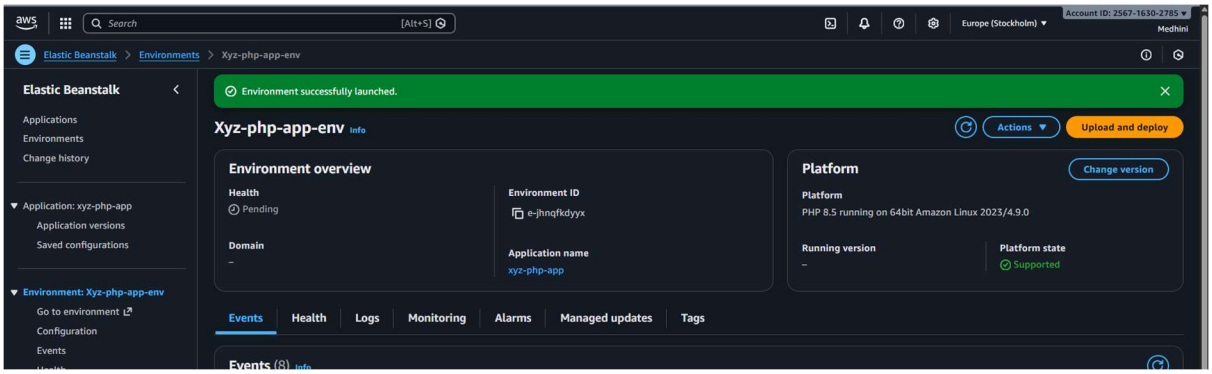












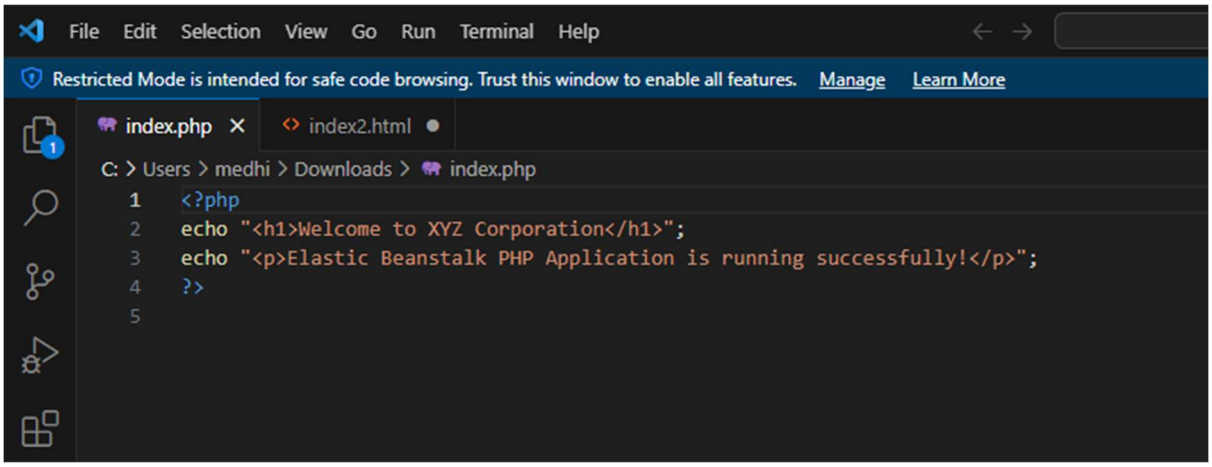
TASK 2: Upload a Simple PHP File

Step 9: Create PHP File on Your Laptop

1. Open Notepad
2. Paste this code:

```
<?php
echo "<h1>Welcome to XYZ Corporation</h1>";
```

```
echo "<p>Elastic Beanstalk PHP Application is running successfully!</p>";
?>
```



Step 10: Create ZIP File

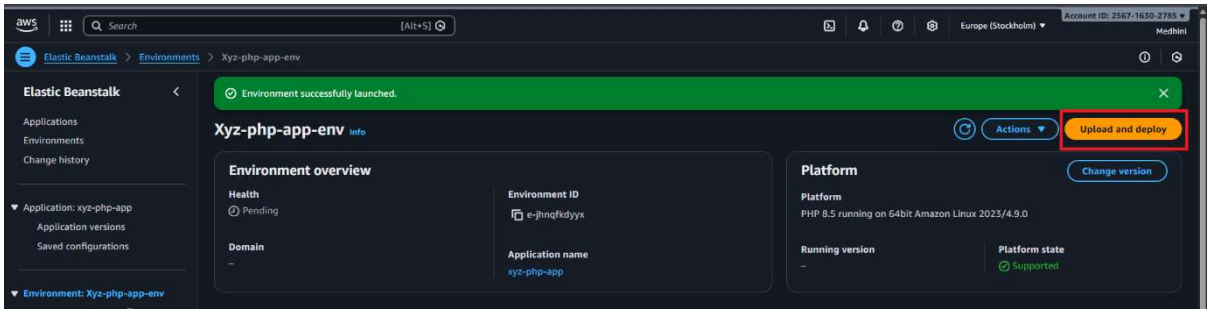
1. Right-click index.php
2. Select **Send to - Compressed (zipped) folder**
3. Name it:

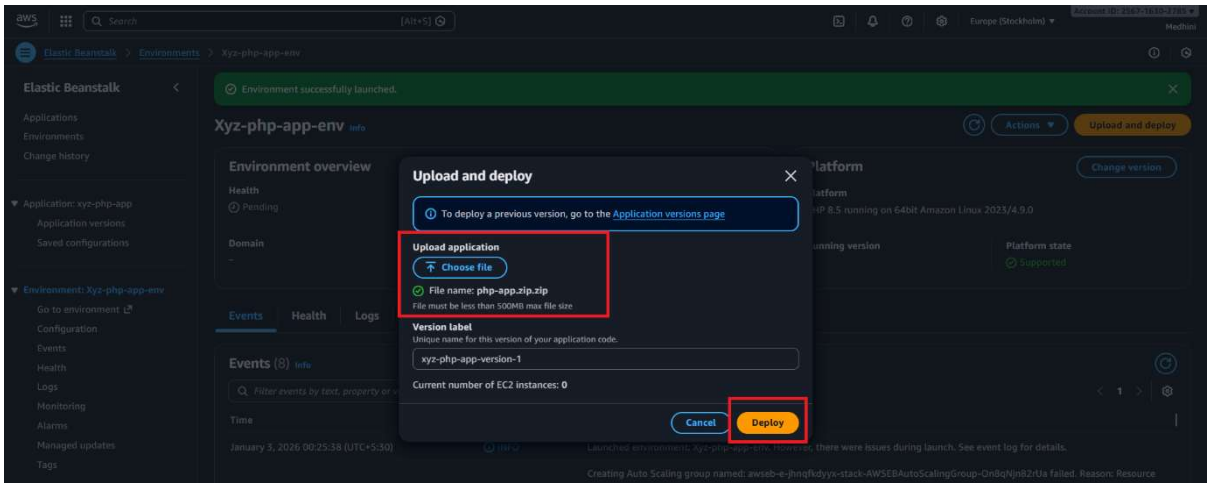
Important:

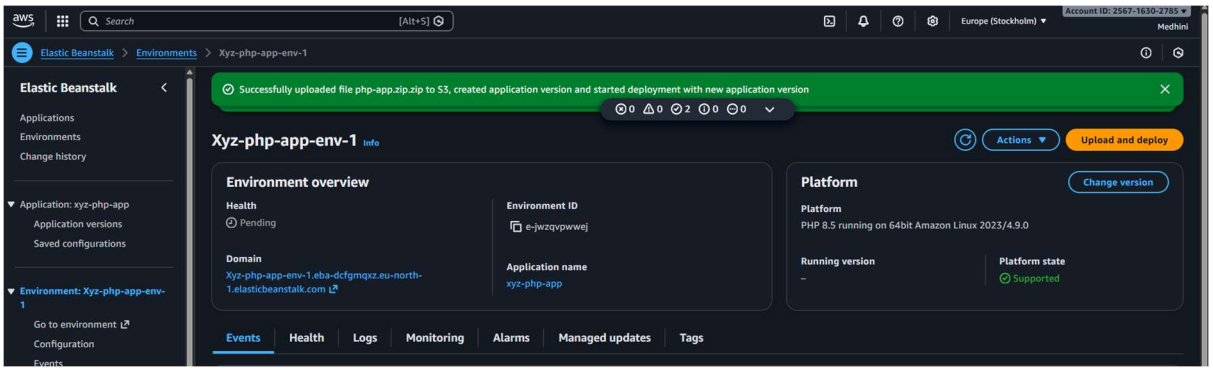
- ZIP should contain **only index.php**
- NOT a folder inside ZIP

Step 11: Upload PHP File to Elastic Beanstalk

1. Go back to **Elastic Beanstalk - Your Environment**
2. Click **Upload and deploy**
3. Click **Choose file**
4. Select php-app.zip
5. **Version label**: v1
6. Click **Deploy**







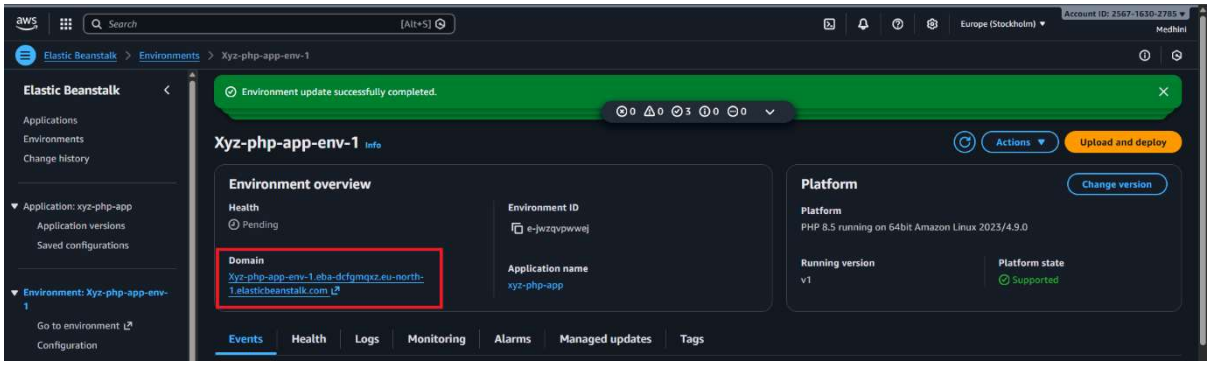
Step 12: Verify Output

1. Wait 1–2 minutes for deployment
2. Open **Environment URL** again
3. You should see:

Welcome to XYZ Corporation

Elastic Beanstalk PHP Application is running successfully!

Assignment – Elastic Beanstalk



Elastic Beanstalk is used to deploy a PHP web application without managing servers. AWS automatically provisions EC2, load balancer, and scaling. A simple PHP file was uploaded to verify successful deployment.