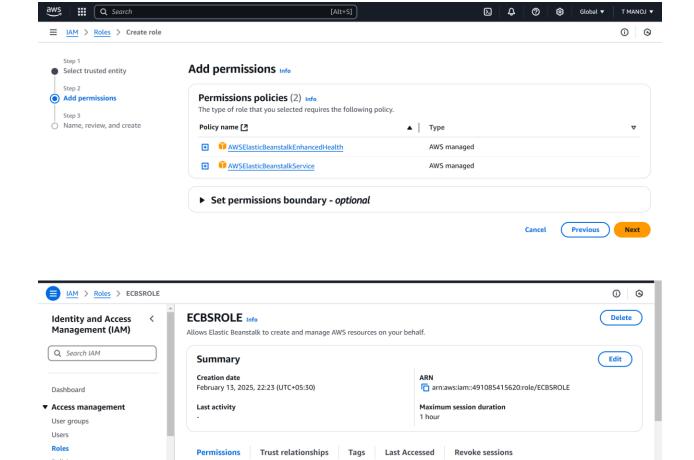
# Deploying a Sample Python App on AWS Elastic Beanstalk

#### **Objective:**

This document provides a step-by-step guide to deploying a sample Python application using AWS Elastic Beanstalk, creating a new IAM user role, setting up an environment, and deploying the application.

#### Create a New IAM User Role

- 1. Sign in to AWS Console and navigate to IAM (Identity and Access Management).
- 2. Click on Roles > Create role.
- 3. Select AWS service and choose Elastic Beanstalk.
- 4. Click Next and attach the policy AWSElasticBeanstalkFullAccess.
- 5. Provide a Role name (e.g., ElasticBeanstalkRole).
- 6. Click Create role.



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#### **Create an Elastic Beanstalk Environment**

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Permissions policies (2) Info

You can attach up to 10 managed policies.

- 1. Go to AWS Elastic Beanstalk in the AWS Console.
- 2. Click Create a new environment.

Identity providers

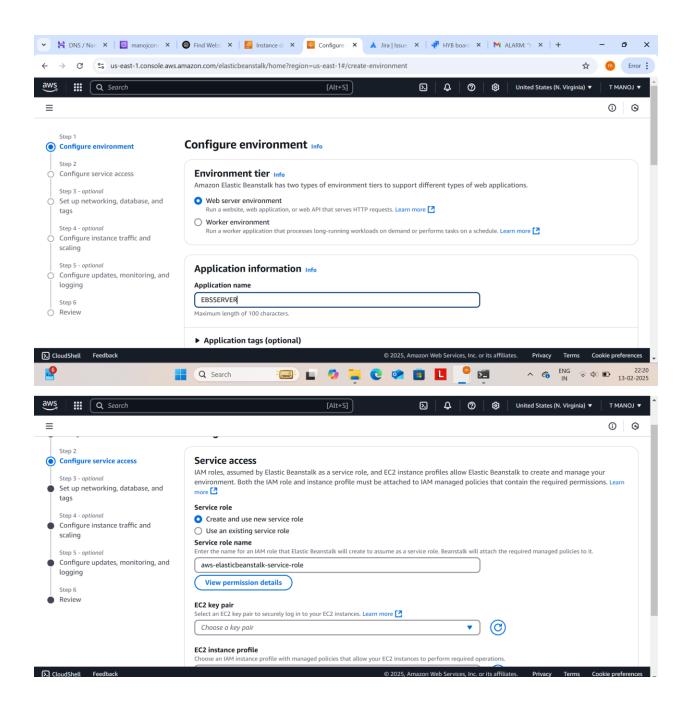
Account settings

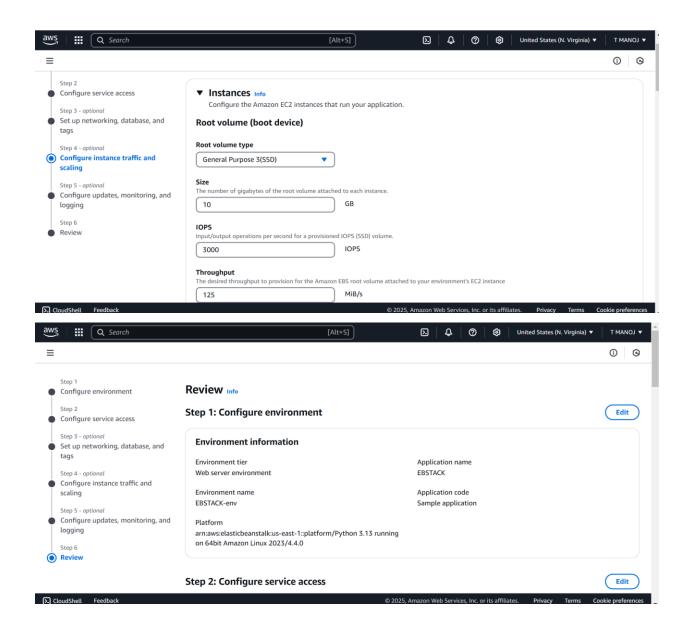
▼ Access reports

CloudShell Feedbac

Root access management New

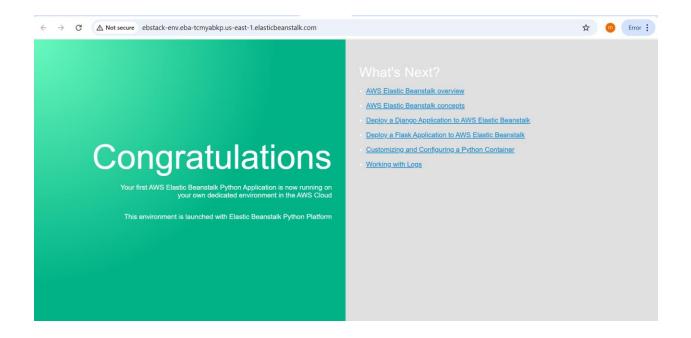
- 3. Choose Web server environment.
- 4. Set the Application name (e.g., SamplePythonApp).
- 5. Select Platform as Python and choose the latest version.
- 6. Click Create environment and wait for it to launch.





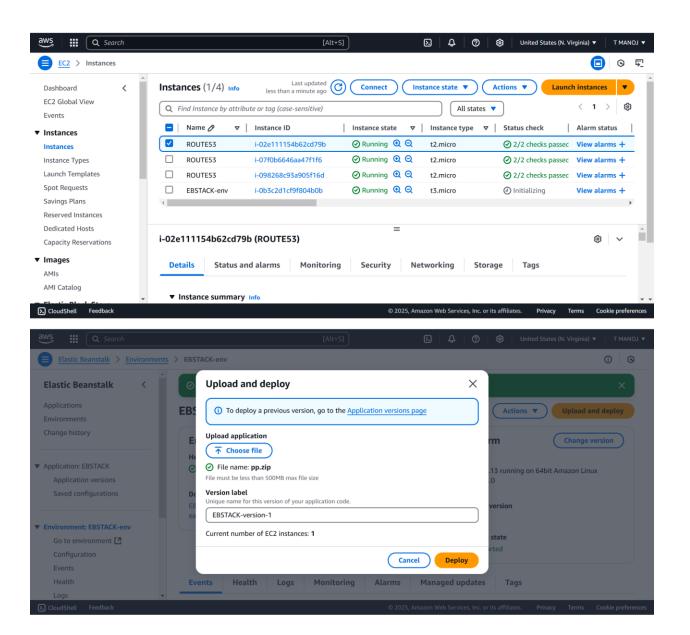
# **Verify the Default Application**

- 1. Once the environment is running, click on the URL generated by Elastic Beanstalk.
- 2. Verify that the default Elastic Beanstalk page is displayed.



## **Upload and Deploy a Python Application**

- 1. Prepare a sample Python application (e.g., app.py).
- 2. Navigate to the Elastic Beanstalk Dashboard.
- 3. Click Upload and Deploy.
- 4. Choose your Python application ZIP file.
- 5. Click Deploy and wait for the deployment to complete.
- 6. Once deployed, click the Application URL to verify that your Python app is running.



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## Conclusion

Deploying a sample Python app on AWS Elastic Beanstalk . You have created an IAM role, launched an Elastic Beanstalk environment, and deployed a Python application successfully.