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Experiment 2: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

Login into your AWS account and navigate to services. Search for Elastic Beanstalk service and click on create application. Give your application a suitable name.

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+,=,.,@,-,_' characters.

Description
Add a short explanation for this role.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,.,@-/_[]!#\$%^&*()~:"'<>`

Step 1: Select trusted entities

Edit

Now, while creating the environment, we are asked to provide an IAM role with the necessary EC2 permissions. We are supposed to make sure that we have made an existing IAM role with the following set of permissions:

1. AWSElasticBeanStalkWebTier
2. AWSElasticBeanStalkWorkerTier
3. AWSElasticBeanStalkMulticontainerDocker

Step 2: Add permissions

Edit

Permissions policy summary

Policy name	Type	Attached as
AWSElasticBeanstalkMulticontainerDocker	AWS managed	Permissions policy
AWSElasticBeanstalkWebTier	AWS managed	Permissions policy
AWSElasticBeanstalkWorkerTier	AWS managed	Permissions policy

Application information [Info](#)

Application name

aman_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.

Service access

IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage y environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissi [more](#) 

Service role

- ☐ Create and use new service role
- ☒ Use an existing service role


Existing service roles

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

aman_yadav



EC2 key pair

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

Choose a key pair



EC2 instance profile

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

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[View permission details](#)

Architecture

The processor architecture determines the instance types that are made available. You can't change this selection after you create the environment. [Learn more](#)

☒ x86_64

This architecture uses x86 processors and is compatible with most third-party tools and libraries.

☐ arm64 - new

This architecture uses AWS Graviton2 processors. You might have to recompile some third-party tools and libraries.

Instance types

Add instance types for your fleet. Change the order that the instances are in to set the preferred launch order. This only affects On-Demand instances. We recommend you include at least two instance types. [Learn more](#)

Choose x86 instance types ▼

t3.micro ✕

t3.small ✕

AMI ID

Elastic Beanstalk selects a default Amazon Machine Image (AMI) for your environment based on the Region, platform version, and processor architecture that you choose. [Learn more](#)

ami-00eb04e7d66370650

Availability Zones

Number of Availability Zones (AZs) to use.

Any ▼

Elastic Beanstalk is launching your environment. This will take a few minutes.

[Elastic Beanstalk](#) > [Environments](#) > Amanapp-env

Amanapp-env [Info](#)



Actions ▼

Upload and deploy

Environment overview

Health

⌚ Pending

Domain

[Amanapp-env.eba-89wnxzg2.eu-north-1.elasticbeanstalk.com](#)

Environment ID

e-ewxmkkvgzx

Application name

[aman_app](#)

Platform

[Change version](#)

Platform

PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2

Running version

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Platform state

✔ Supported

[Events](#)

[Health](#)

[Logs](#)

[Monitoring](#)

[Alarms](#)

[Managed updates](#)

[Tags](#)