

Name : Devansh Wadhwani

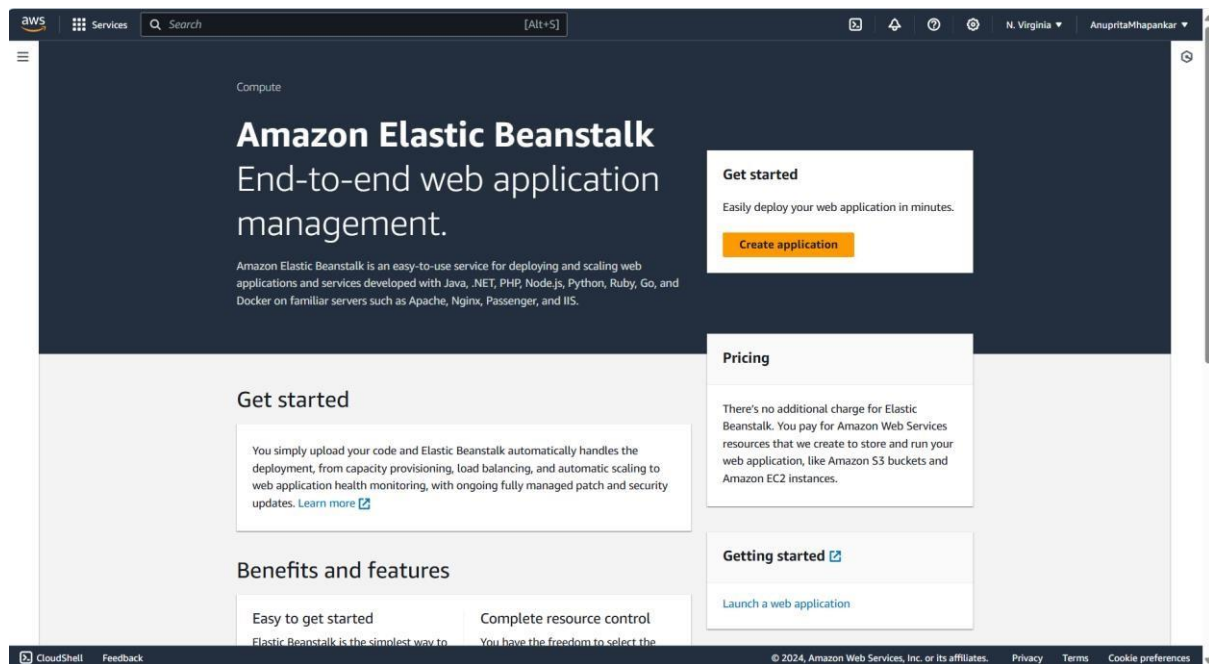
Div : D15A

Roll No. : 64

Experiment 2

Using Beanstalk

1. Search Elastic Beanstalk from Developer Tools



2. Click on create application and configure the environment

aws

Services

Search

[Alt+S]

N. Virginia

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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 environment [info](#)

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

devansh

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.

Environment name

AnuBeanApp-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.

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3. Choose PHP from the dropdown menu and click next

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Platform [info](#)

Platform type

☒ **Managed platform**
Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ **Custom platform**
Platforms created and owned by you. This option is unavailable if you have no platforms.

Platform

PHP

Platform branch

PHP 8.3 running on 64bit Amazon Linux 2023

Platform version

4.3.2 (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.

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4. From the dropdown menu select the key pair and instance profile

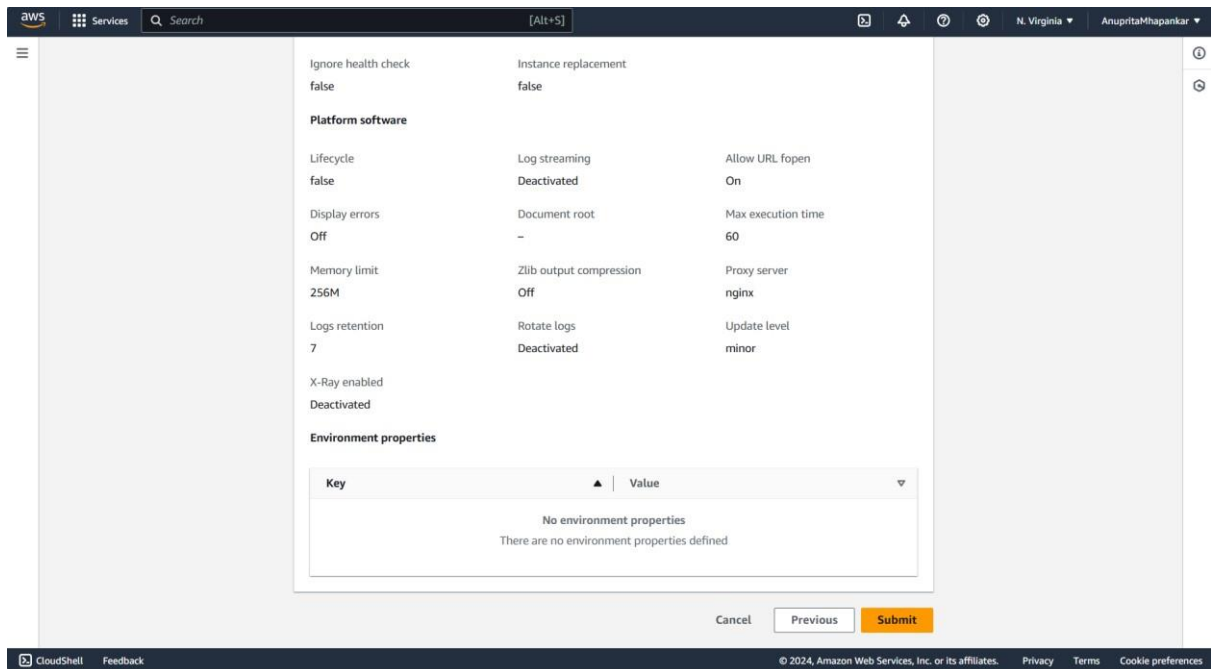
The screenshot shows the AWS Management Console interface for the 'Configure service access' step of an Elastic Beanstalk environment setup. The left sidebar contains a navigation menu with steps: Step 1 (Configure environment), Step 2 (Configure service access), Step 3 (optional: Set up networking, database, and tags), Step 4 (optional: Configure instance traffic and scaling), Step 5 (optional: Configure updates, monitoring, and logging), and Step 6 (Review). The main content area is titled 'Configure service access' and includes an 'Info' link. It contains the following sections:

- Service access:** A brief explanation of IAM roles and EC2 instance profiles, followed by a 'Learn more' link.
- Service role:** Two radio buttons: 'Create and use new service role' (selected) and 'Use an existing service role'.
- Service role name:** A text input field containing 'aws-elasticbeanstalk-service-role' and a 'View permission details' button.
- EC2 key pair:** A section titled 'Select an EC2 key pair to securely log in to your EC2 instances. Learn more' with a dropdown menu showing 'myKey' and a refresh icon.
- EC2 instance profile:** A section titled 'Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.' with a dropdown menu and a refresh icon.

At the bottom of the main content area are four buttons: 'Cancel', 'Skip to review', 'Previous', and 'Next'.

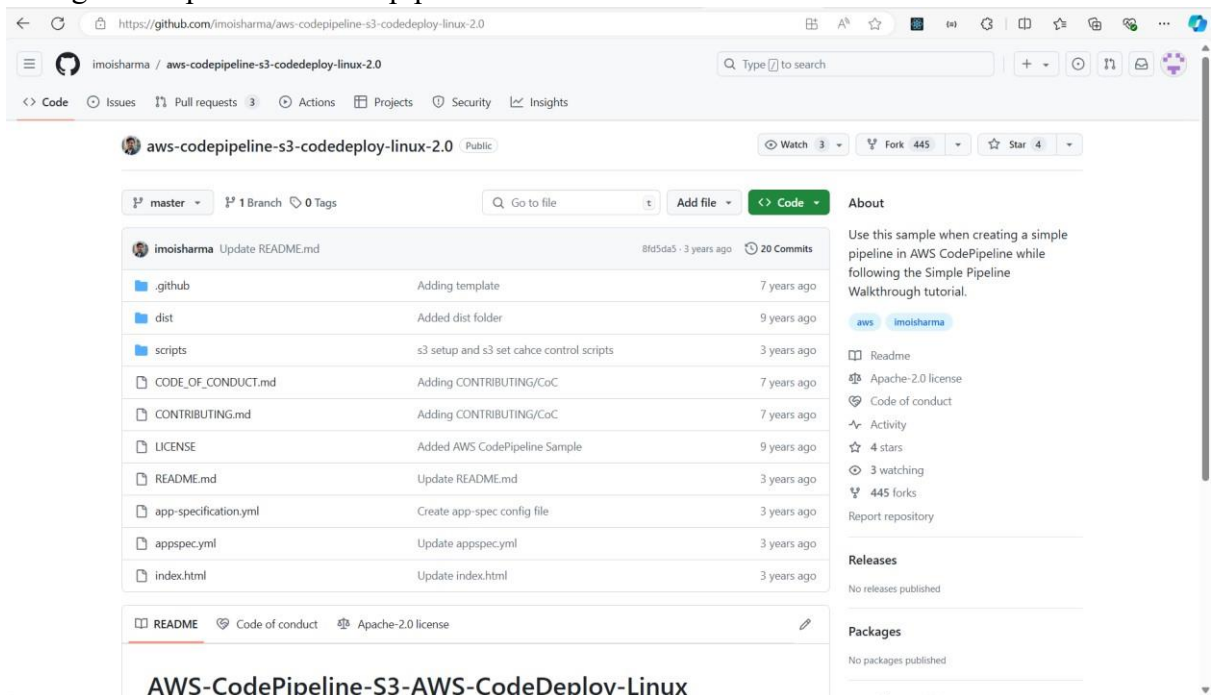
The footer of the console shows 'CloudShell', 'Feedback', and copyright information: '© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

5. Review the changes made and click on Submit

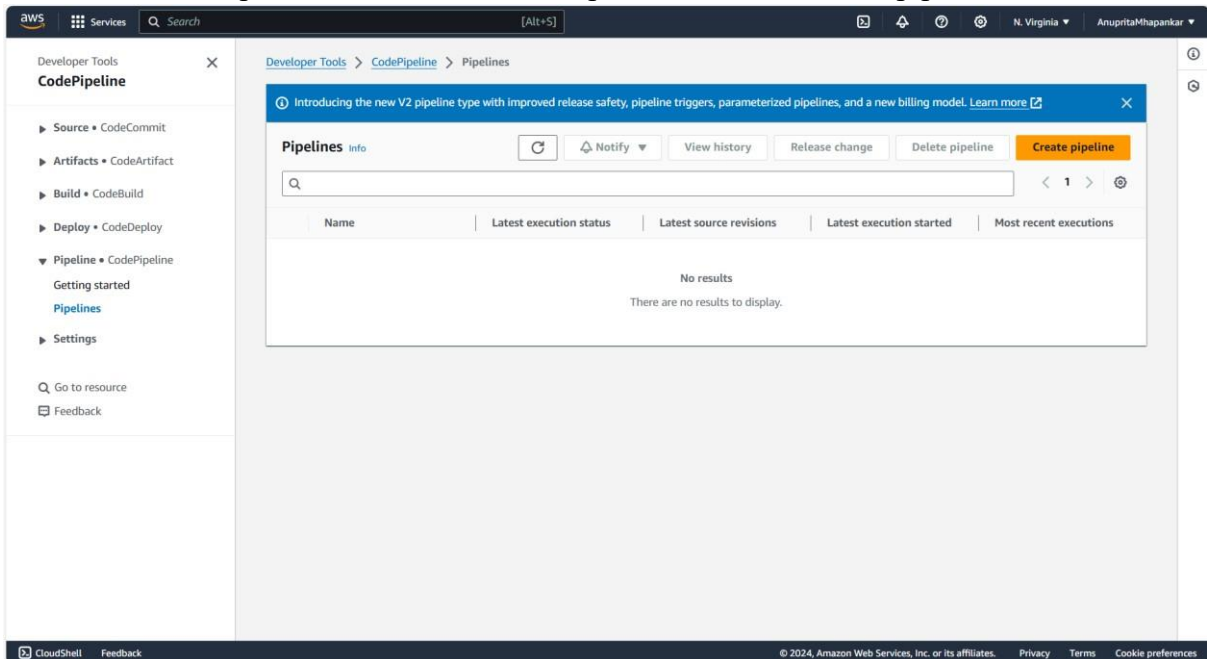


Pipeline Creation :

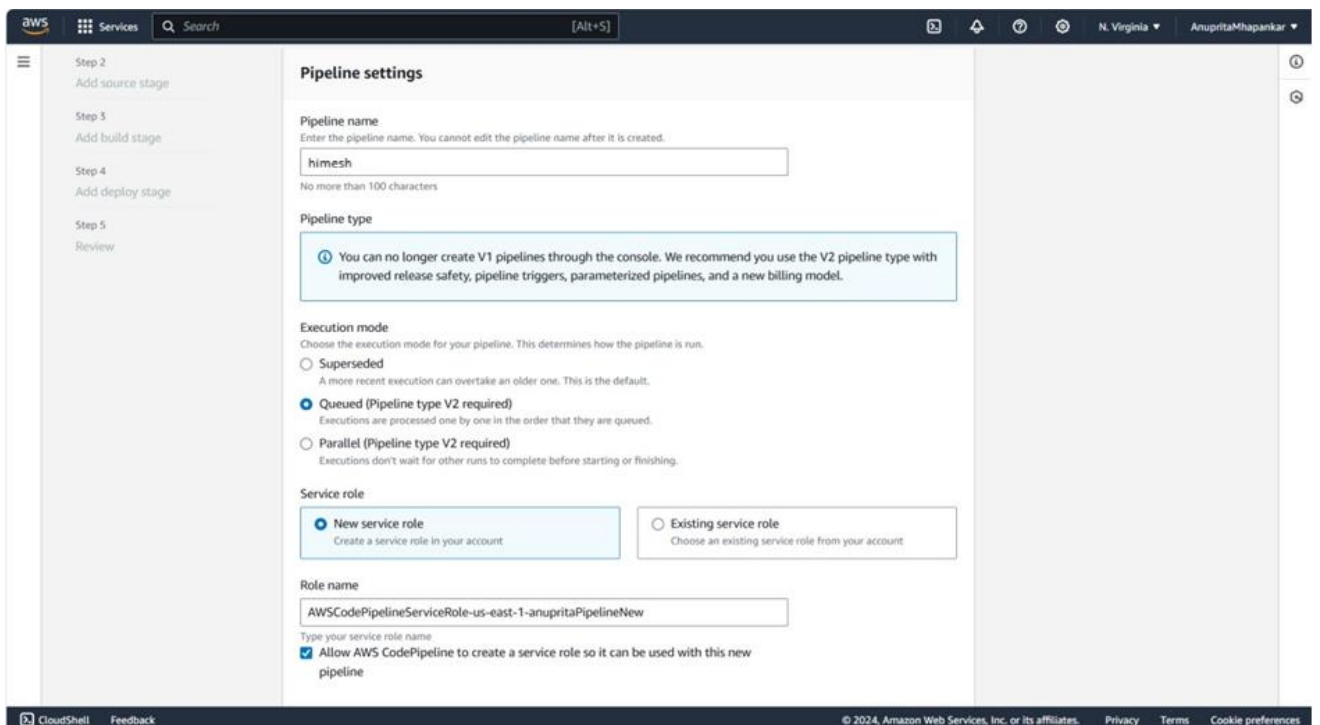
1. Fork a github repo for aws codepipeline.



2. Go to developer tools and select CodePipeline and create a new pipeline



3. Name your pipeline and select the desired service role



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Service role

☒ New service role

Create a service role in your account

☐ Existing service role

Choose an existing service role from your account

Role name

AWSCodePipelineServiceRole-us-east-1-anupritaPipeline

Type your service role name

☒ Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

Variables

You can add variables at the pipeline level. You can choose to assign the value when you start the pipeline. Choosing this option requires pipeline type V2. [Learn more](#)

No variables defined at the pipeline level in this pipeline.

Add variable

You can add up to 50 variables.

The first pipeline execution will fail if variables have no default values.

Advanced settings

Cancel

Next

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4. In the source stage select Github v2 as the provider and then connect your github

https://us-east-1.console.aws.amazon.com/codesuite/settings/connections/creat... A

aws Services

Developer Tools > ... > Create connection

Create a connection [Info](#)

Create GitHub App connection [Info](#)

Connection name

MyConnection

► Tags - *optional*

[Connect to GitHub](#)

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AWS Connector for GitHub by **Amazon Web Services** would like permission to:



Verify your GitHub identity (Anuprita579)



Know which resources you can access



Act on your behalf



[Learn more](#)

[Learn more about AWS Connector for GitHub](#)

Cancel

**Authorize AWS Connector for
GitHub**

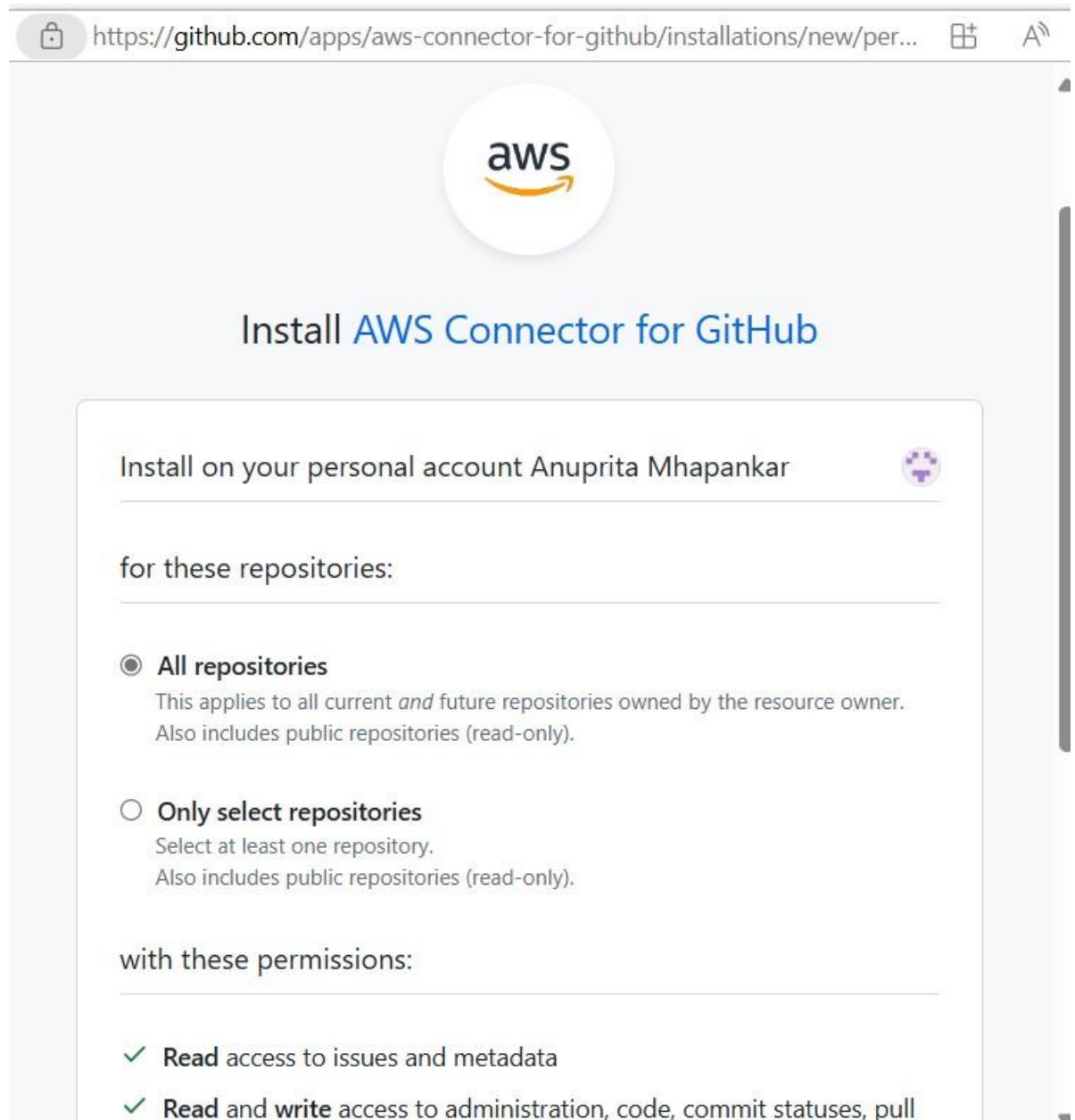
Authorizing will redirect to
<https://redirect.codestar.aws>



Not owned or operated by GitHub



Created 4 years ago



5. Once the connection is established from the drop down menu select the repository and the branch

aws

Services

Search

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Add deploy stage

Step 5

Review

New GitHub version 2 (app-based) action

To add a GitHub version 2 action in CodePipeline, you create a connection, which uses GitHub Apps to access your repository. Use the options below to choose an existing connection or create a new one. [Learn more](#)

Connection

Choose an existing connection that you have already configured, or create a new one and then return to this task.

arn:aws:codeconnections:us-east-1:557690619479:connection/fbe678f5-a05

 or

Connect to GitHub

Ready to connect

Your GitHub connection is ready for use.

Repository name

Choose a repository in your GitHub account.

himesh/aws-codepipeline-s3-codedeploy-linux-2.0

You can type or paste the group path to any project that the provided credentials can access. Use the format 'group/subgroup/project'.

Default branch

Default branch will be used only when pipeline execution starts from a different source or manually started.

master

Output artifact format

Choose the output artifact format.

CodePipeline default

AWS CodePipeline uses the default zip format for artifacts in the pipeline. Does not include Git metadata about the repository.

Full clone

AWS CodePipeline passes metadata about the repository that allows subsequent actions to do a full Git clone. Only supported for AWS CodeBuild actions.

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6. Skip the build stage

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Add build stage

Step 4

Add deploy stage

Step 5

Review

Deploy

Deploy provider

Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.

AWS Elastic Beanstalk

Region

US East (N. Virginia)

Input artifacts

Choose an input artifact for this action. [Learn more](#)

SourceArtifact

No more than 100 characters.

Application name

Choose an application that you have already created in the AWS Elastic Beanstalk console. Or create an application in the AWS Elastic Beanstalk console and then return to this task.

myBeanApp

Environment name

Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic Beanstalk console and then return to this task.

MyBeanApp-env

☐ Configure automatic rollback on stage failure

Cancel

Previous

Next

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7. Review the settings and click on create pipeline

Trigger type
No filter

Step 3: Add build stage

Build action provider

Build stage
No build

Step 4: Add deploy stage

Deploy action provider

Deploy action provider
AWS Elastic Beanstalk

ApplicationName
MyFirstApp

EnvironmentName
MyFirstApp-env

Configure automatic rollback on stage failure
Disabled

Cancel Previous Create pipeline

8. Check the URL provided in the EBS environment.
9.

Developer Tools
CodePipeline

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Go to resource

Feedback

devansh

Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

Source Succeeded

Pipeline execution ID: 6938b77e-d2e8-4a62-9dce-3ab9f9c405f1

Source

GitHub (Version 2)

Succeeded - 1 minute ago

View details

Source: Update README.md

Disable transition

Deploy Succeeded

Pipeline execution ID: 6938b77e-d2e8-4a62-9dce-3ab9f9c405f1

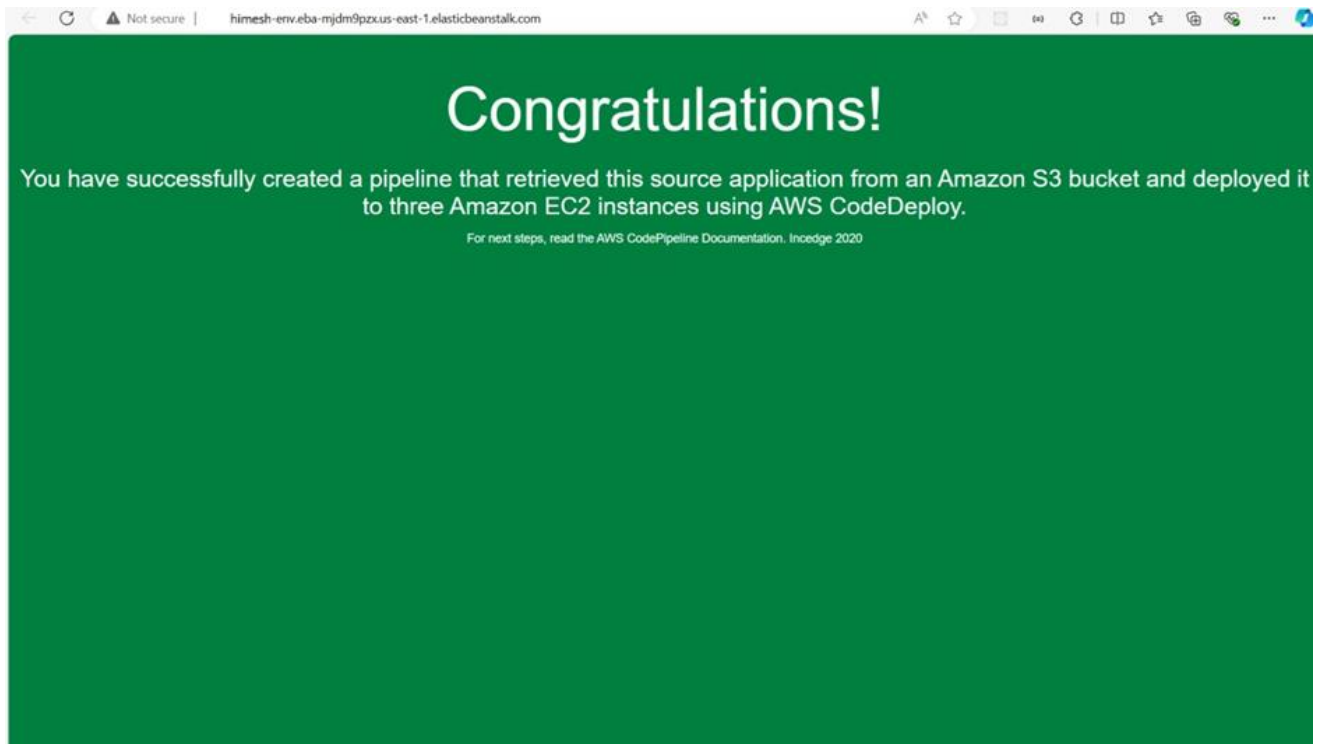
Deploy

AWS Elastic Beanstalk

Succeeded - Just now

Start rollback

9. The website is hosted from the forked repo in our beanstalk environment



10. Now, Edit index.html file and then commit the changes

Commit changes

Commit message

Update index.html

Extended description

Add an optional extended description..

☒ Commit directly to the master branch

☐ Create a **new branch** for this commit and start a pull request [Learn more about pull requests](#)

Cancel

Commit changes

11. Visit the deployed link again, the changes will be reflected in the website.

