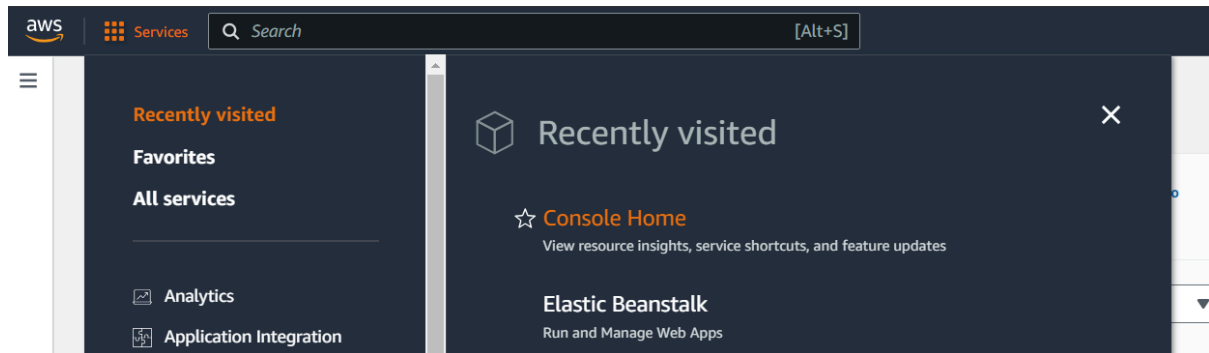


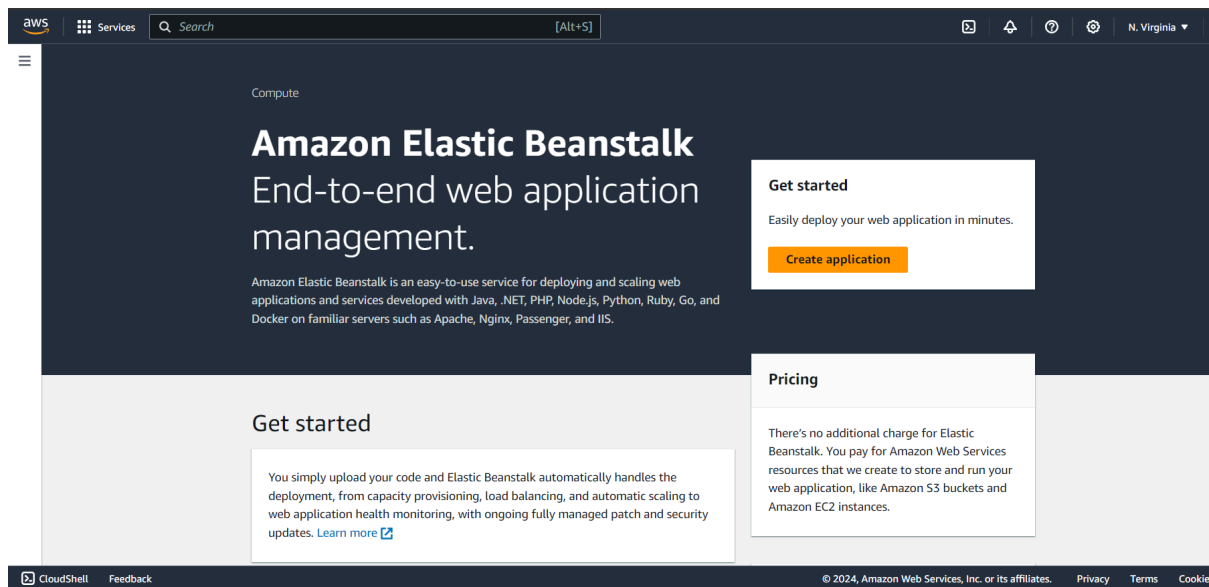
**Name-Ishan Kiran Joshi   Div-D15C   Roll No-21   A.Y.-2024-25**

## **Advance DevOps Lab 2**

1. Login to your AWS account and search for Elastic Beanstalk in the search box.



2- Click on Create Application



### 3- Enter your details

aws

Services

Search

[Alt+S]

N. Virginia

Rakshit

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

ishan2611

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.

aws

Services

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[Alt+S]

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Rakshit

Environment information [Info](#)

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name

ishan2611-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.

Domain

Leave blank for autogenerated value

.us-east-1.elasticbeanstalk.com

Check availability

Environment description

Platform [Info](#)

Platform type

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

☐ Custom platform

aws

Services

Search

[Alt+S]

## 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

4.3.1 (Recommended)

### Application code [Info](#)

☒ Sample application

☐ Existing version  
Application versions that you have uploaded.

## 4-Choose PHP from the drop-down menu and then click Create Application.

The screenshot shows the 'Configure service access' step in the AWS Elastic Beanstalk console. The left sidebar lists steps 1 through 6, with step 2 being the current step. The main content area is titled 'Service access' and contains the following sections:

- Service role:** Two radio buttons are present: 'Create and use new service role' (unselected) and 'Use an existing service role' (selected).
- Existing service roles:** A dropdown menu shows 'aws-elasticbeanstalk-service-role'.
- EC2 key pair:** A dropdown menu shows 'rakshit'.
- EC2 instance profile:** A dropdown menu shows 'role1'.

At the bottom of the main content area, there is a 'View permission details' button. At the bottom of the console, there are four buttons: 'Cancel', 'Skip to review', 'Previous', and 'Next' (highlighted in orange).

## 5-Check and Review the information

The screenshot shows the 'Configure updates, monitoring, and logging - optional' step in the AWS Elastic Beanstalk console. The left sidebar lists steps 1 through 6, with step 5 being the current step. The main content area is titled 'Configure updates, monitoring, and logging - optional' and contains the following sections:

- Monitoring:** A section with a dropdown arrow and the word 'Info'.
- Health reporting:** A section with a description of enhanced health reporting.
- System:** Two radio buttons are present: 'Basic' (unselected) and 'Enhanced' (selected).
- CloudWatch Custom Metrics - Instance:** A dropdown menu with 'Choose metrics'.
- CloudWatch Custom Metrics - Environment:** A dropdown menu with 'Choose metrics'.
- Health event streaming to CloudWatch Logs:** A section with a description of streaming health events.
- Log streaming:** A checkbox labeled 'Activated (standard CloudWatch charges apply)'.

At the bottom of the console, there is a footer bar with 'CloudShell', 'Feedback', and copyright information.

The screenshot shows the 'Review' step in the AWS Elastic Beanstalk console. The left sidebar lists steps 1 through 6, with step 6 being the current step. The main content area is titled 'Review' and contains the following sections:

- Step 1: Configure environment:** A section with an 'Edit' button. It contains a table with the following information:

Environment information	
Environment tier	Application name
Web server environment	ishan2611
Environment name	Application code
Ishan2611-env	Sample application
Platform	
arn:aws:elasticbeanstalk:us-east-1::platform/PHP 8.3 running on 64bit Amazon Linux 2023/4.3.1	

- Step 2: Configure service access:** A section with an 'Edit' button. It contains a section titled 'Service access' with a description of configuring the service role and EC2 instance profile.

## 6- Now submit the application

aws Services Search [Alt+S]

Environment configuration settings:

Lifecycle	Log streaming	Allow URL fopen
false	Deactivated	On
Display errors	Document root	Max execution time
Off	-	60
Memory limit	Zlib output compression	Proxy server
256M	Off	nginx
Logs retention	Rotate logs	Update level
7	Deactivated	minor
X-Ray enabled		
Deactivated		

Environment properties

Key	Value
No environment properties	
There are no environment properties defined	

Cancel Previous Submit

## 7- Environment is created successfully

Environment successfully launched.

Elastic Beanstalk > Environments > Ishan2611-env

Ishan2611-env Info

Environment overview

Health	Environment ID
Pending	e-pvnyi2trtt
Domain	Application name
Ishan2611-env.eba-5nbdg7pf.us-east-1.elasticbeanstalk.com	ishan2611

Platform

Platform

PHP 8.3 running on 64bit Amazon Linux 2023/4.3.1

Running version

-

Platform state

Supported

Events Health Logs Monitoring Alarms Managed updates Tags

## 8- Get a copy of your sample code

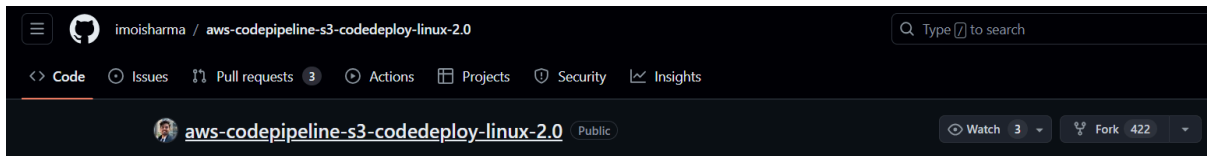
Ishan2611 / aws-codepipeline-s3-codedeploy-linux-2.0

<> Code Pull requests Actions Projects Wiki Security Insights Settings

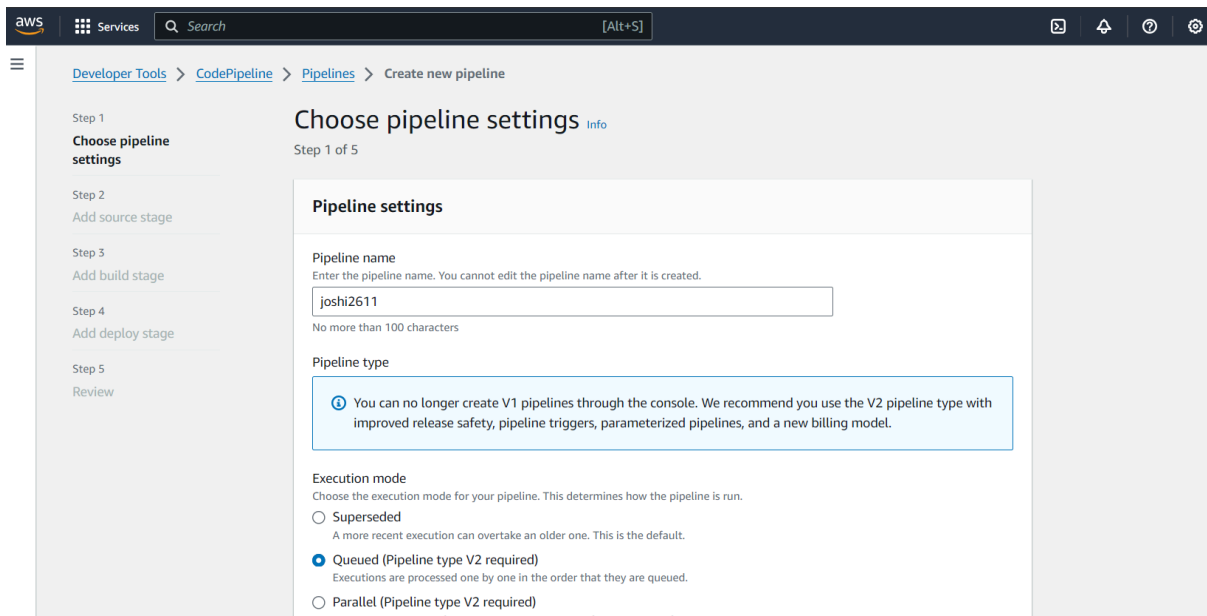
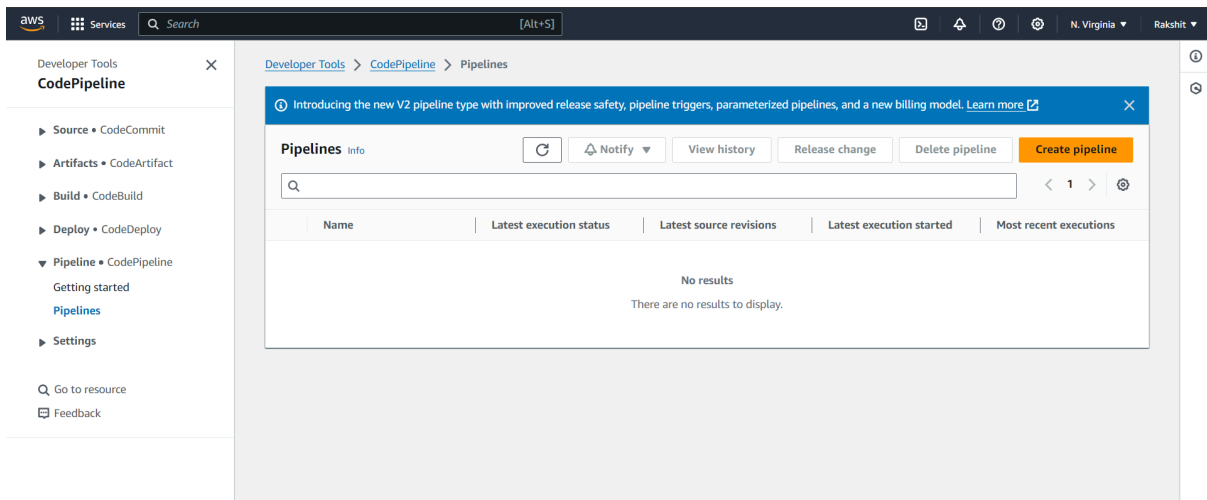
aws-codepipeline-s3-codedeploy-linux-2.0 Public

forked from imoisharma/aws-codepipeline-s3-codedeploy-linux-2.0

9-Go to the repository and simply fork it.



10- Go to AWS Developer Tools -> CodePipeline and create a new Pipeline. Fill in the initial settings first.



11-In the source stage, choose GitHub v2 as the provider, then connect your GitHub account to AWS by creating a connection. You'd need your GitHub credentials and then you'd need to authorize and install AWS on the forked GitHub Repository.

The screenshot shows the AWS CodePipeline console interface. The top navigation bar includes the AWS logo, a 'Services' menu, a search bar, and a keyboard shortcut '[Alt+S]'. On the left, a sidebar shows the pipeline steps: Step 3 (Add build stage), Step 4 (Add deploy stage), Step 5, and Review. The main content area is titled 'Source provider' and contains the following sections:

- Source provider:** A dropdown menu is set to 'GitHub (Version 2)'.
- New GitHub version 2 (app-based) action:** A blue box with an information icon stating: '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:** A text input field contains 'arn:aws:codeconnections:us-east-1:975050293750:connection/9cd1efed-c07', followed by an 'X' icon and the text 'or'. A button labeled 'Connect to GitHub' is to the right.
- Ready to connect:** A green box with a checkmark icon stating: 'Your GitHub connection is ready for use.'
- Repository name:** A text input field with the placeholder 'Choose a repository in your GitHub account.'

The bottom screenshot shows the same console after further configuration:

- Ready to connect:** The green box remains at the top.
- Repository name:** The text input field now contains 'Ishan2611/aws-codepipeline-s3-codedeploy-linux-2.0'.
- Default branch:** A text input field contains 'master'.
- Output artifact format:** Two radio button options are shown:
  - CodePipeline default:** Selected. Description: 'AWS CodePipeline uses the default zip format for artifacts in the pipeline. Does not include Git metadata about the repository.'
  - Full clone:** Unselected. Description: 'AWS CodePipeline passes metadata about the repository that allows subsequent actions to do a full Git clone. Only supported for AWS CodeBuild actions.'

12-Choose Beanstalk as the Deploy Provider, same region as the Bucket and Beanstalk, name and environment name. Click Next, Review and create the pipeline.

The screenshot shows the 'Add deploy stage' screen in the AWS CodePipeline console. The left sidebar lists the steps: Step 1 (Choose pipeline settings), Step 2 (Add source stage), Step 3 (Add build stage), Step 4 (Add deploy stage - currently selected), and Step 5 (Review). The main content area is titled 'Add deploy stage' with a sub-header 'Step 4 of 5'. A blue information box states: 'You cannot skip this stage. Pipelines must have at least two stages. Your second stage must be either a build or deployment stage. Choose a provider for either the build stage or deployment stage.' Below this, the 'Deploy' section contains the following fields: 'Deploy provider' (set to 'AWS Elastic Beanstalk'), 'Region' (set to 'US East (N. Virginia)'), 'Input artifacts' (empty dropdown with a note 'No more than 100 characters'), and 'Application name' (empty text field with a note '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.').

The screenshot shows the 'Review' screen in the AWS CodePipeline console. The left sidebar lists the steps: Step 1 (Choose pipeline settings), Step 2 (Add source stage), Step 3 (Add build stage), Step 4 (Add deploy stage), and Step 5 (Review - currently selected). The main content area is titled 'Review' with a sub-header 'Step 5 of 5'. The 'Step 1: Choose pipeline settings' section displays the following details: 'Pipeline name' (joshi2611), 'Pipeline type' (V2), 'Execution mode' (QUEUED), 'Artifact location' (A new Amazon S3 bucket will be created as the default artifact store for your pipeline), and 'Service role name' (AWSCodePipelineServiceRole-us-east-1-joshi2611).

aws

Services

Search

[Alt+S]

Build action provider

Build stage  
No build

Step 4: Add deploy stage

Deploy action provider

Deploy action provider  
AWS Elastic Beanstalk  
ApplicationName  
ishan2611  
EnvironmentName  
Ishan2611-env  
Configure automatic rollback on stage failure  
Disabled

CancelPreviousCreate pipeline

## 13- Pipeline is created Successfully

aws

Services

Search

[Alt+S]

N. Virginia

Developer Tools

CodePipeline

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Settings

Go to resource

Feedback

Success

Create a notification rule for this pipeline

Developer Tools > CodePipeline > Pipelines > joshi2611

joshi2611

Notify EditStop executionClone pipelineRelease change

Pipeline type: V2 Execution mode: QUEUED

Source

Succeeded

Pipeline execution ID: aa987872-a8ed-4f19-acce-53eb7a01cf0b

Source

GitHub (Version 2)

Succeeded - Just now

8fd5da54

View details

8fd5da54 Source: Update README.md

aws

Services

Search

[Alt+S]

N. Virginia

Developer Tools

CodePipeline

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Settings

Go to resource

Feedback

Source

GitHub (Version 2)

Succeeded - 1 minute ago

8fd5da54

View details

8fd5da54 Source: Update README.md

Disable transition

Deploy

Succeeded

Pipeline execution ID: aa987872-a8ed-4f19-acce-53eb7a01cf0b

Deploy

AWS Elastic Beanstalk

Succeeded - Just now

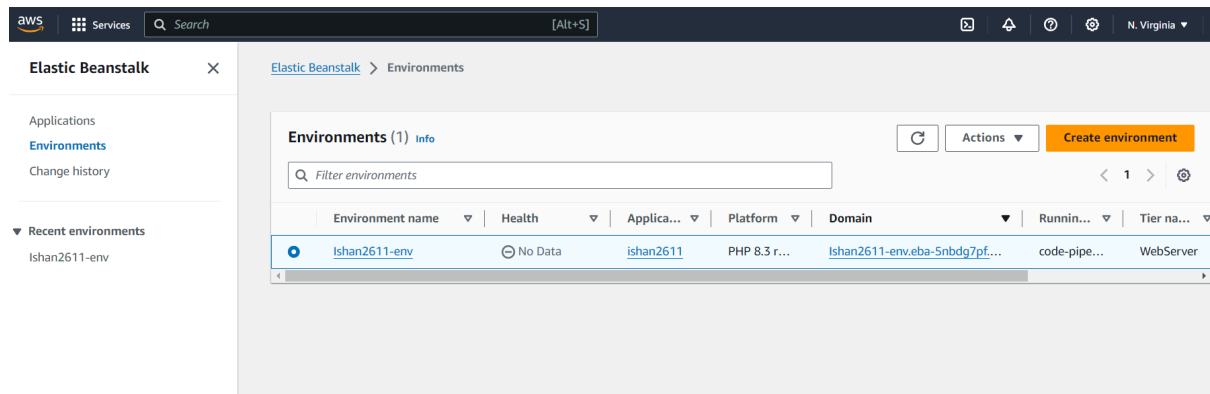
View details

8fd5da54 Source: Update README.md

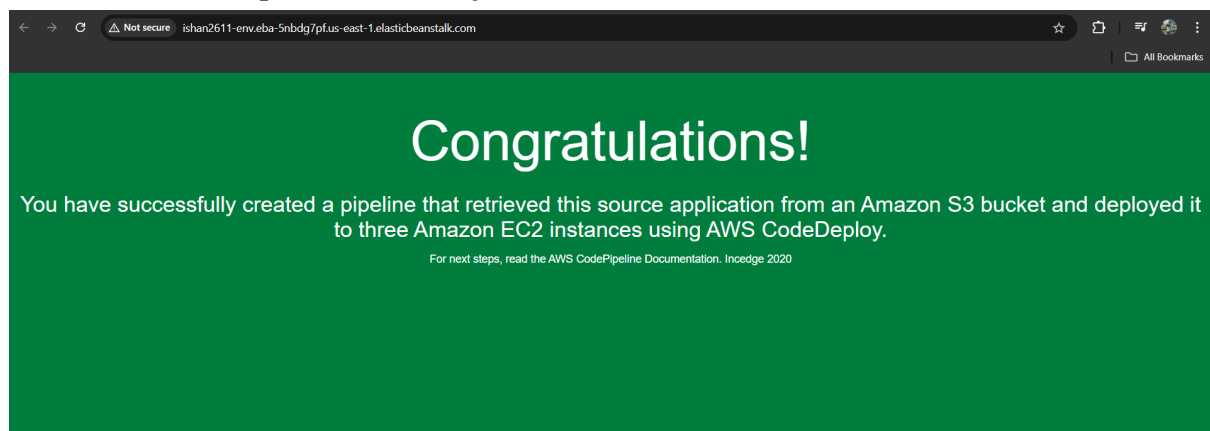
Start rollback



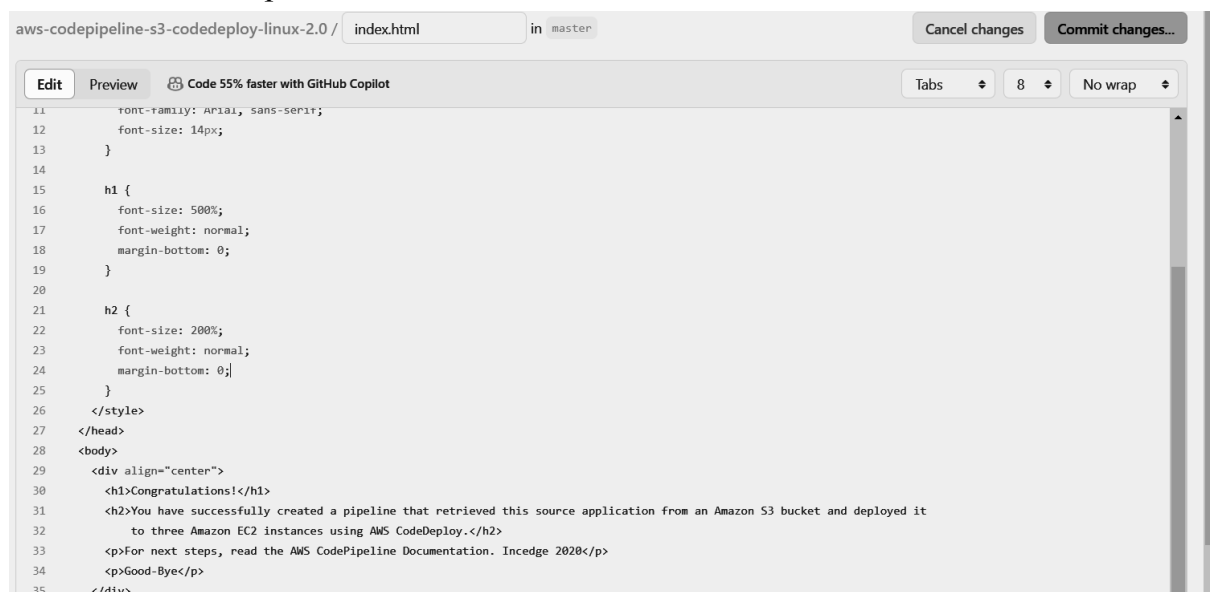
14- Check the URL provided in the EBS environment.



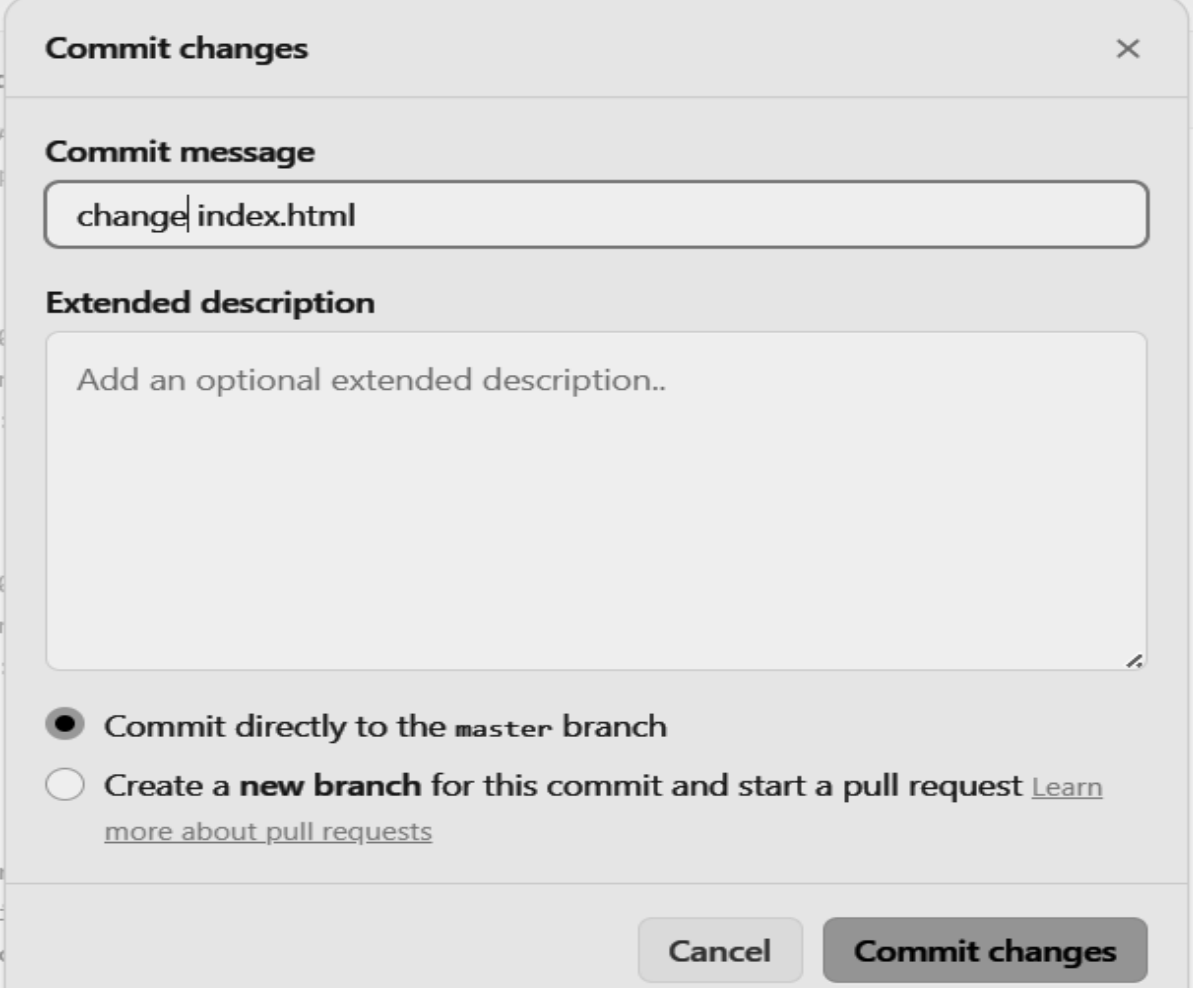
15-This is the sample website we just created.



15- Here we will update th code

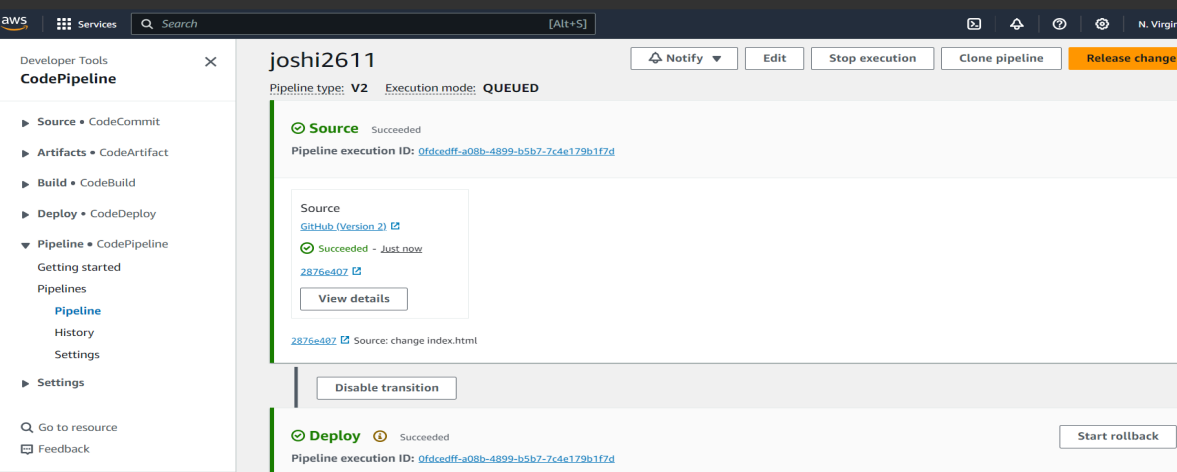


16-Commit these changes on the fly on GitHub.



A dialog box titled "Commit changes" with a close button (X) in the top right corner. It contains a "Commit message" section with a text input field containing "change index.html". Below this is an "Extended description" section with a large text area containing the placeholder text "Add an optional extended description..". At the bottom, there are two radio button options: "Commit directly to the master branch" (which is selected) and "Create a new branch for this commit and start a pull request" (with a link to "Learn more about pull requests"). At the very bottom are two buttons: "Cancel" and "Commit changes".

17-You can view the changes on the website using the same URL, once the deployment section shows success.



A screenshot of the AWS CodePipeline console. The left sidebar shows the "Developer Tools" menu with "CodePipeline" selected. The main area displays the pipeline "joshi2611" with a "Notify" dropdown, "Edit", "Stop execution", "Clone pipeline", and "Release change" buttons. The pipeline type is "V2" and the execution mode is "QUEUED". The pipeline execution ID is "0f6cedff-a08b-4899-b5b7-7c4e179b1f7d". The pipeline has two stages: "Source" (Succeeded) and "Deploy" (Succeeded). The "Source" stage is expanded, showing a "Source" action using "GitHub (Version 2)" as the provider, which succeeded "Just now" with ID "2876e407". A "View details" button is next to it. The "Deploy" stage is also expanded, showing a "Deploy" action that succeeded with ID "0f6cedff-a08b-4899-b5b7-7c4e179b1f7d". A "Start rollback" button is next to it. A "Disable transition" button is located between the two stages.

## 18-Success

