

Name : Himesh Pathai

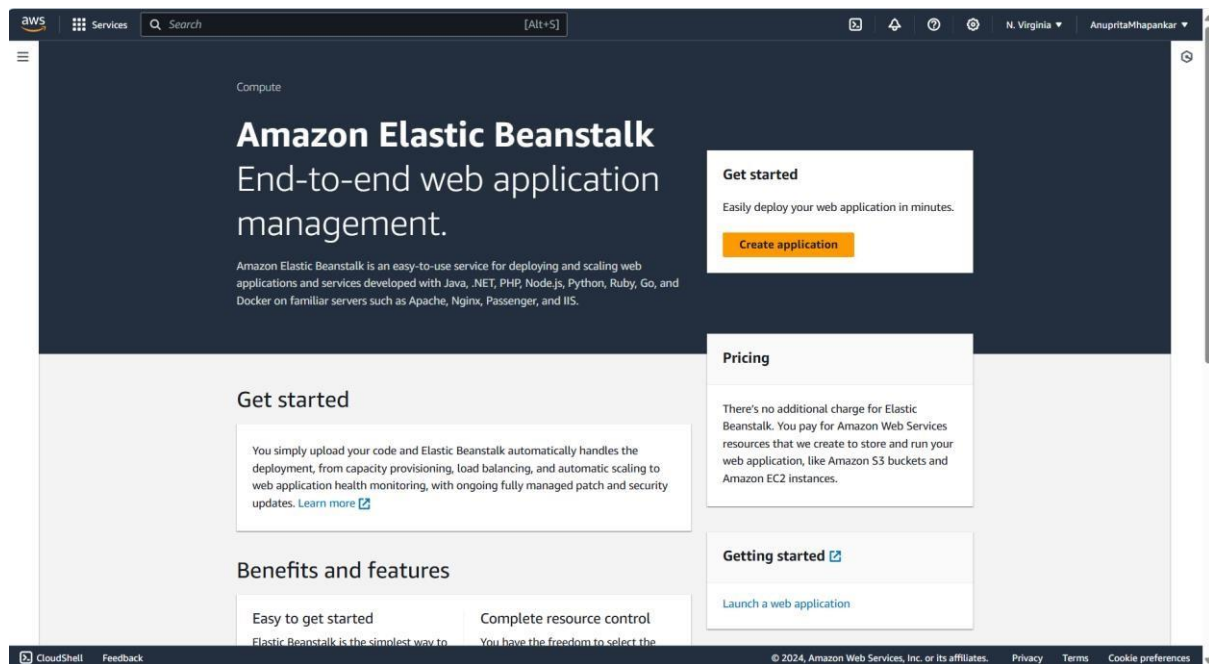
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Roll No. : 35

## 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

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

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

Platform branch

Platform version

### 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. The left sidebar contains a navigation menu with steps 1 through 6. Step 2, 'Configure service access', is the current step. The main content area is titled 'Configure service access' and includes an 'Info' link. Below the title, there is a 'Service access' section with a description of IAM roles and EC2 instance profiles. The 'Service role' section has two radio buttons: 'Create and use new service role' (selected) and 'Use an existing service role'. The 'Service role name' section has a text input field containing 'aws-elasticbeanstalk-service-role' and a 'View permission details' button. The 'EC2 key pair' section has a dropdown menu showing 'myKey' and a refresh button. The 'EC2 instance profile' section has a dropdown menu and a refresh button. At the bottom of the form are buttons for 'Cancel', 'Skip to review', 'Previous', and 'Next'. The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. in 2024.

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 service access [Info](#)

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

**Service role**  
☒ Create and use new service role  
☐ Use an existing service role

**Service role name**  
Enter the name for an IAM role that Elastic Beanstalk will create to assume as a service role. Beanstalk will attach the required managed policies to it.  
  
[View permission details](#)

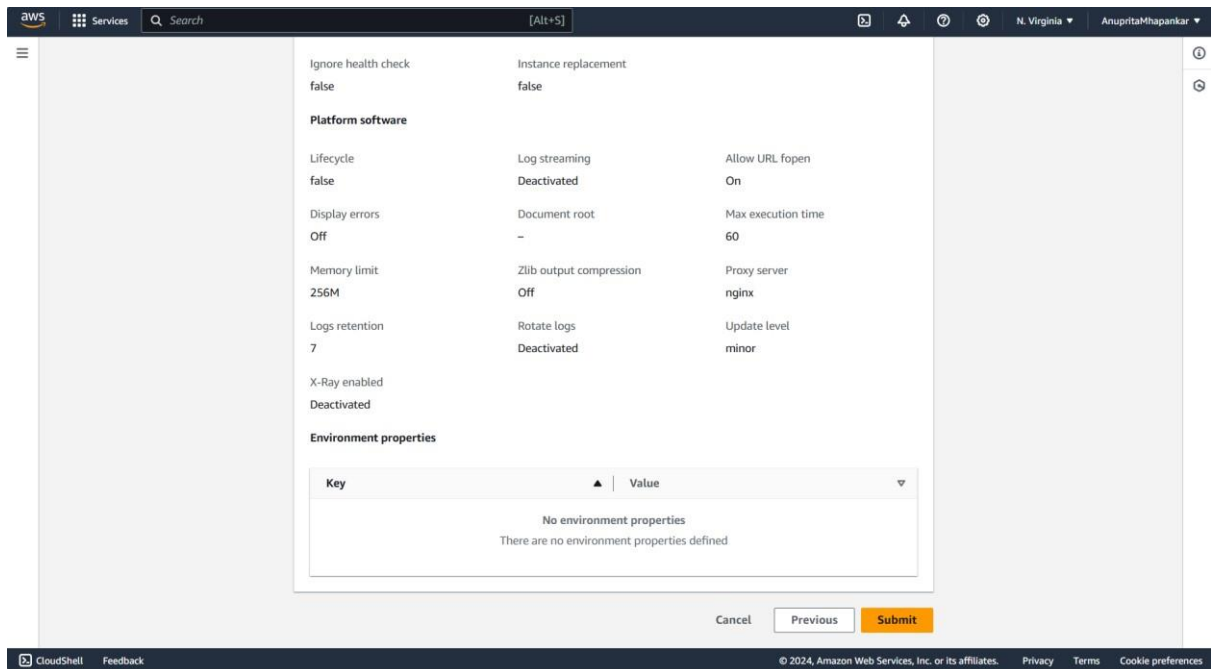
**EC2 key pair**  
Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#)  
 [Refresh](#)

**EC2 instance profile**  
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.  
 [Refresh](#)  
[View permission details](#)

[Cancel](#) [Skip to review](#) [Previous](#) [Next](#)

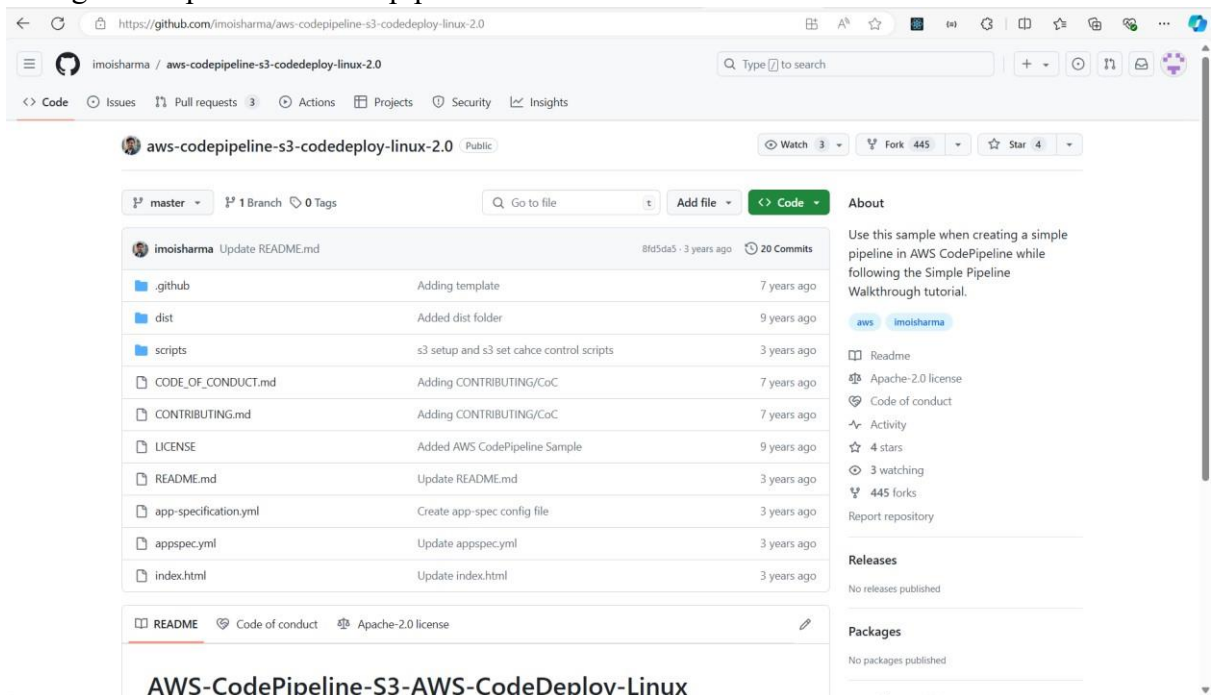
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#### 5. Review the changes made and click on Submit

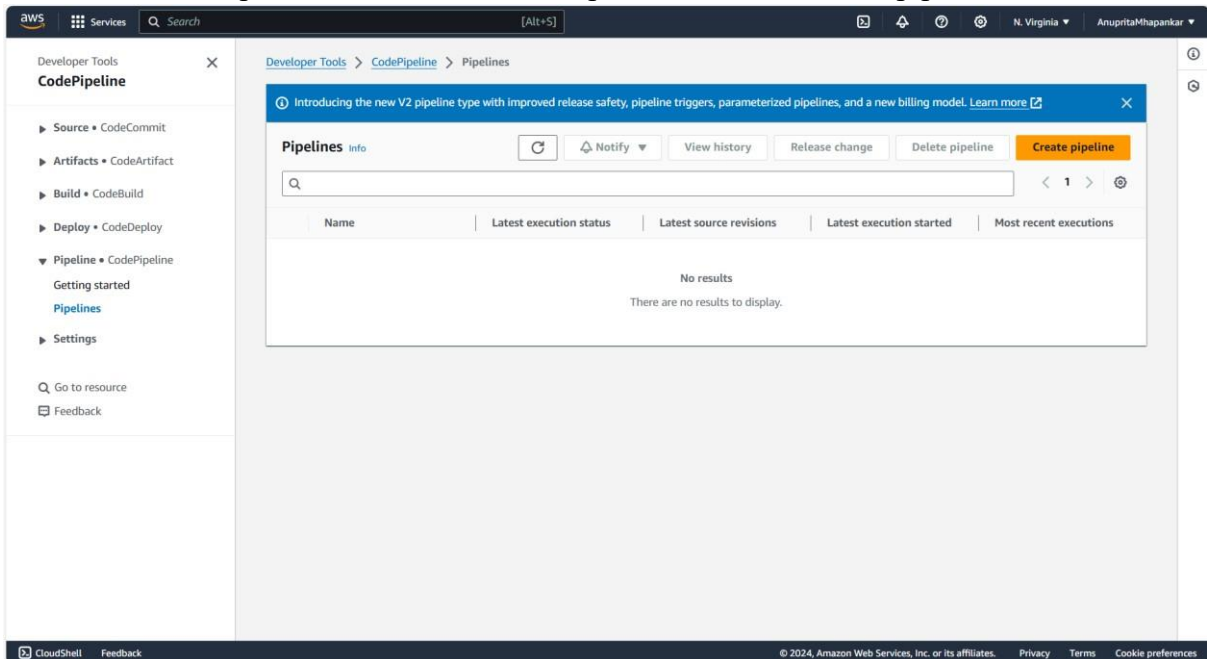


Pipeline Creation :

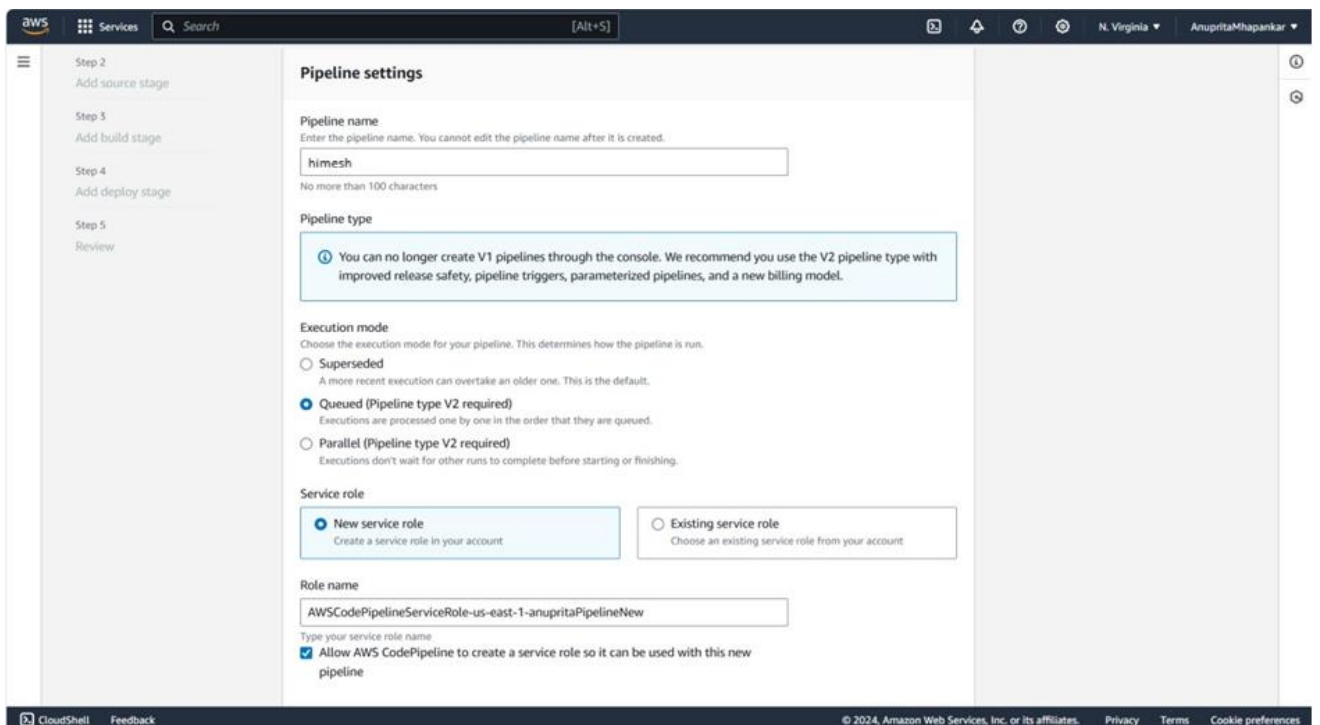
## 1. Fork a github repo for aws codepipeline.



## 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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Services

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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 🔍 📄 🔔 More ▾

☰ [Developer Tools](#) > ... > Create connection ⓘ 🏠

## Create a connection [Info](#)

### Create GitHub App connection [Info](#)

Connection name

► **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



https://github.com/apps/aws-connector-for-github/installations/new/per... A



## Install AWS Connector for GitHub

Install on your personal account Anuprita Mhapankar 

for these repositories:

☒ **All repositories**  
This applies to all current *and* future repositories owned by the resource owner.  
Also includes public repositories (read-only).

☐ **Only select repositories**  
Select at least one repository.  
Also includes public repositories (read-only).

with these permissions:

- ✓ **Read** access to issues and metadata
- ✓ **Read and write** access to administration, code, commit statuses, pull

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

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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.

or [Connect to GitHub](#)

**Ready to connect**  
Your GitHub connection is ready for use.

**Repository name**  
Choose a repository in your GitHub account.

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.

**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.

**Region**

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

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.

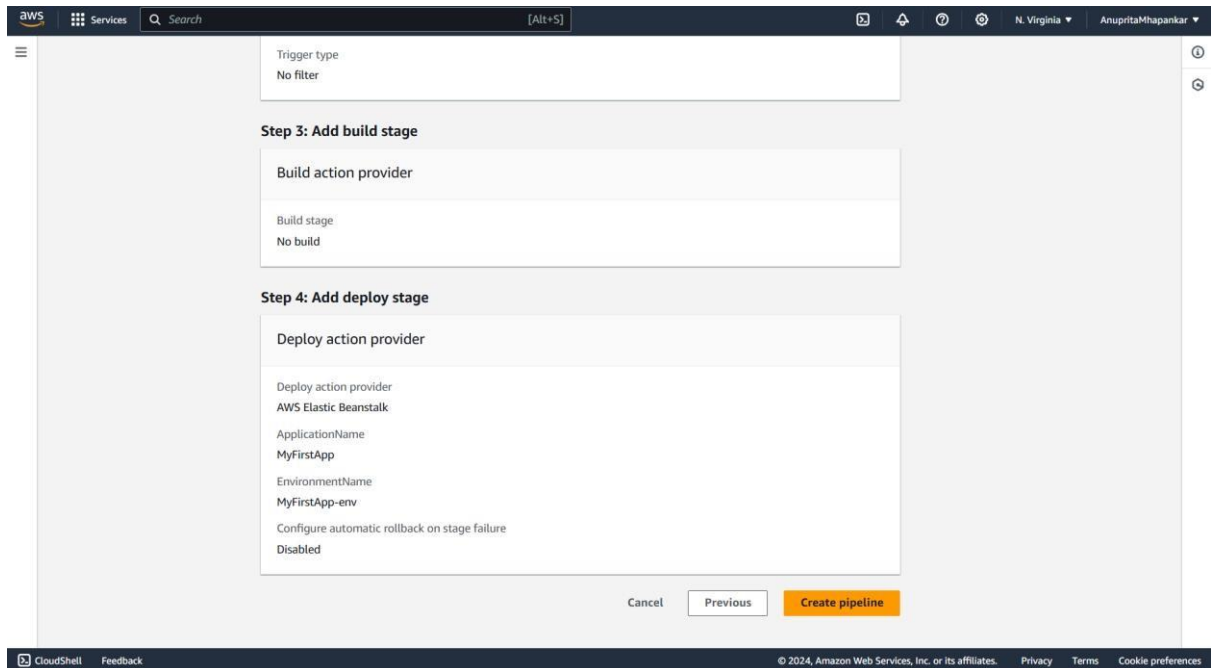
**Environment name**  
Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic Beanstalk console and then return to this task.

☐ Configure automatic rollback on stage failure

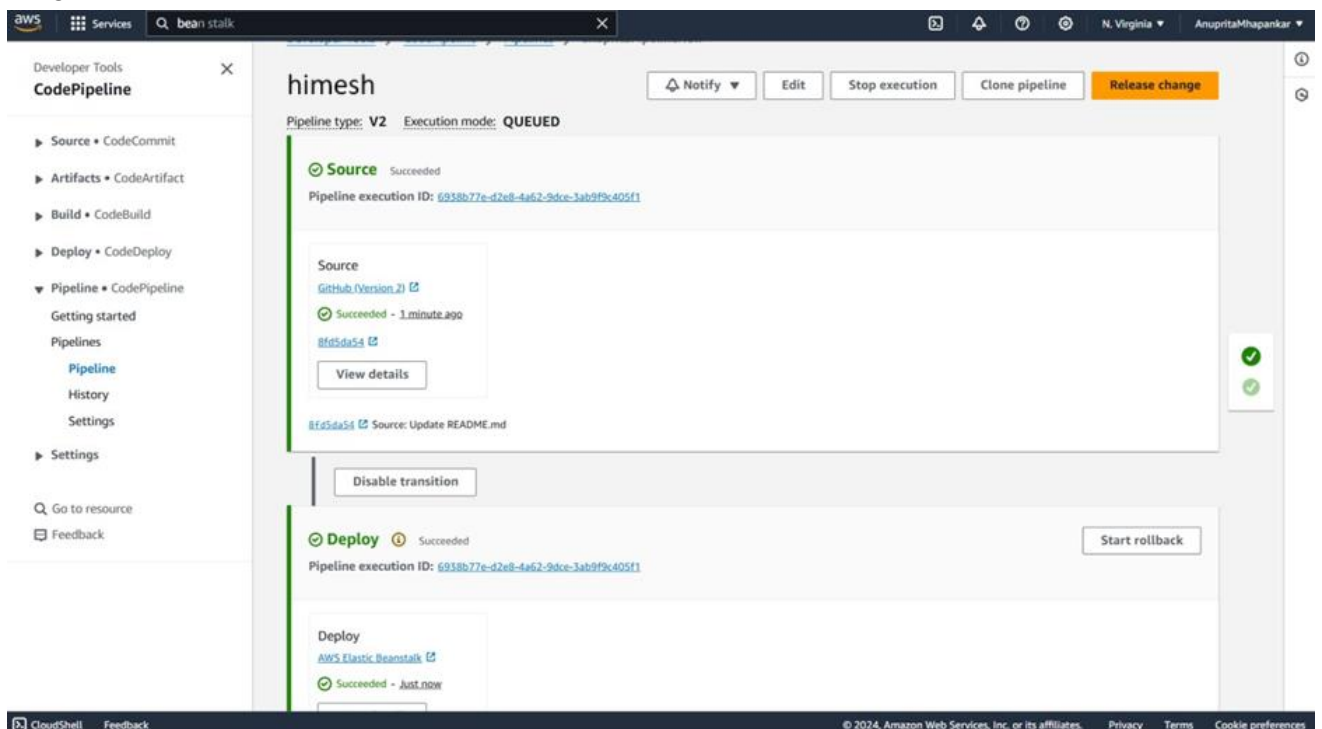
Cancel Previous **Next**

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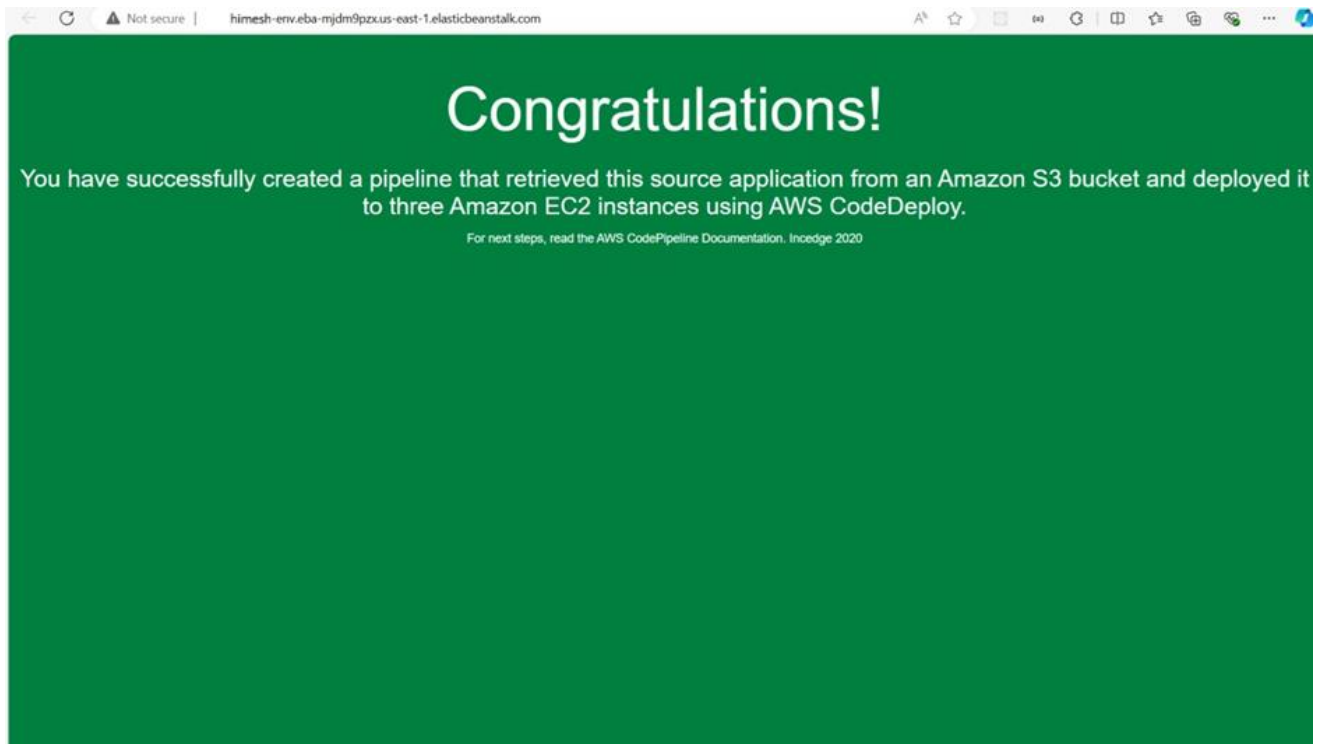
7. Review the settings and click on create pipeline



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



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.

