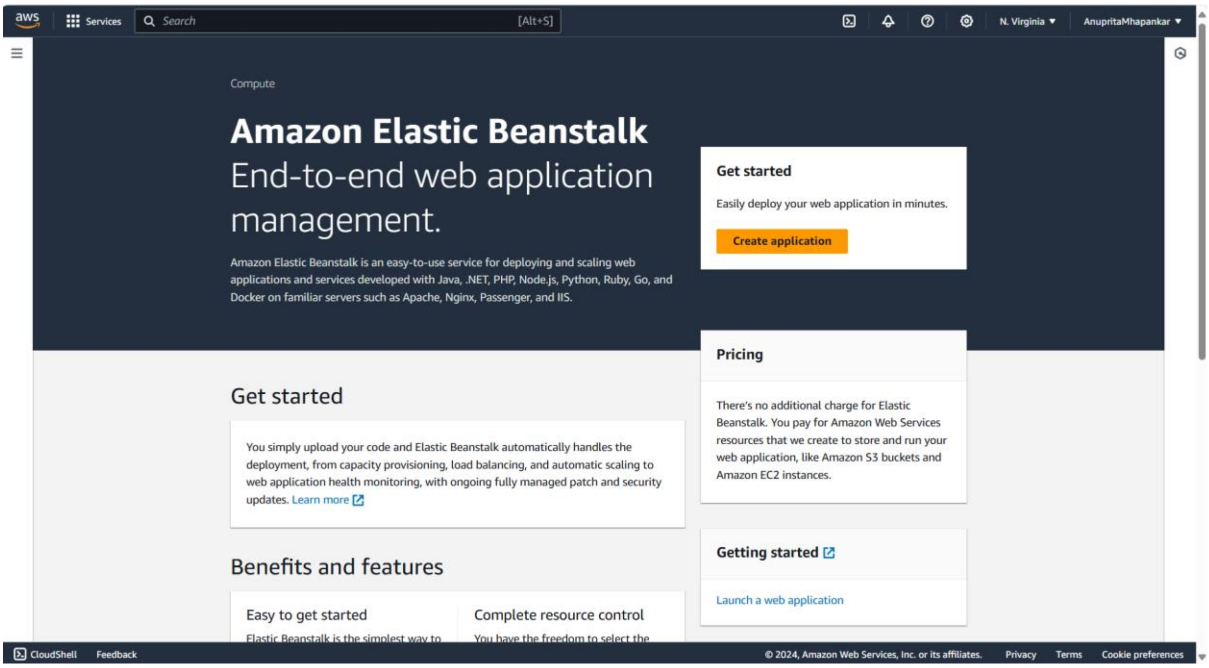
Anuprita Mhapankar D10A 29

Experiment 2

Using Beanstalk

1. Search Elastic Beanstalk from Developer Tools



Compute

Amazon Elastic Beanstalk

End-to-end web application management.

Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

Get started

Easily deploy your web application in minutes.

Create application

Pricing

There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets and Amazon EC2 instances.

Get started

You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates. Learn more

Getting started

Launch a web application

Benefits and features

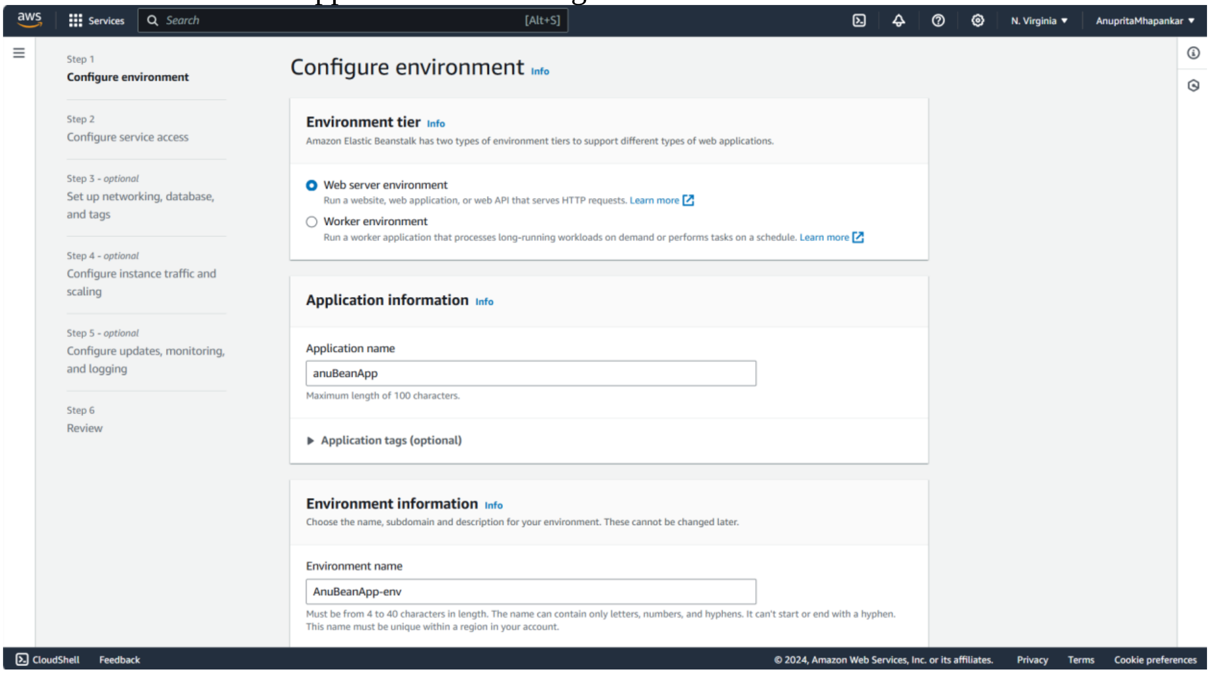
Easy to get started

Elastic Beanstalk is the simplest way to

Complete resource control

You have the freedom to select the

2. Click on create application and configure the environment



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: anuBeanApp

Maximum length of 100 characters.

▶ Application tags (optional)

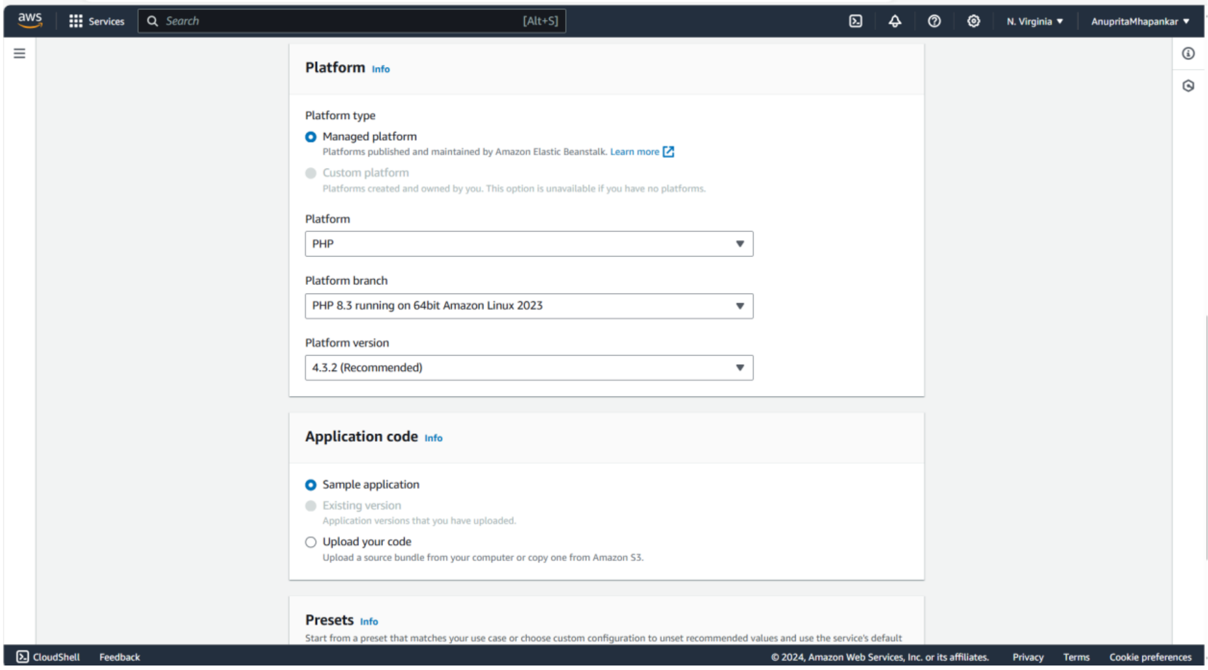
Environment information Info

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.

3. Choose PHP from the dropdown menu and click next



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

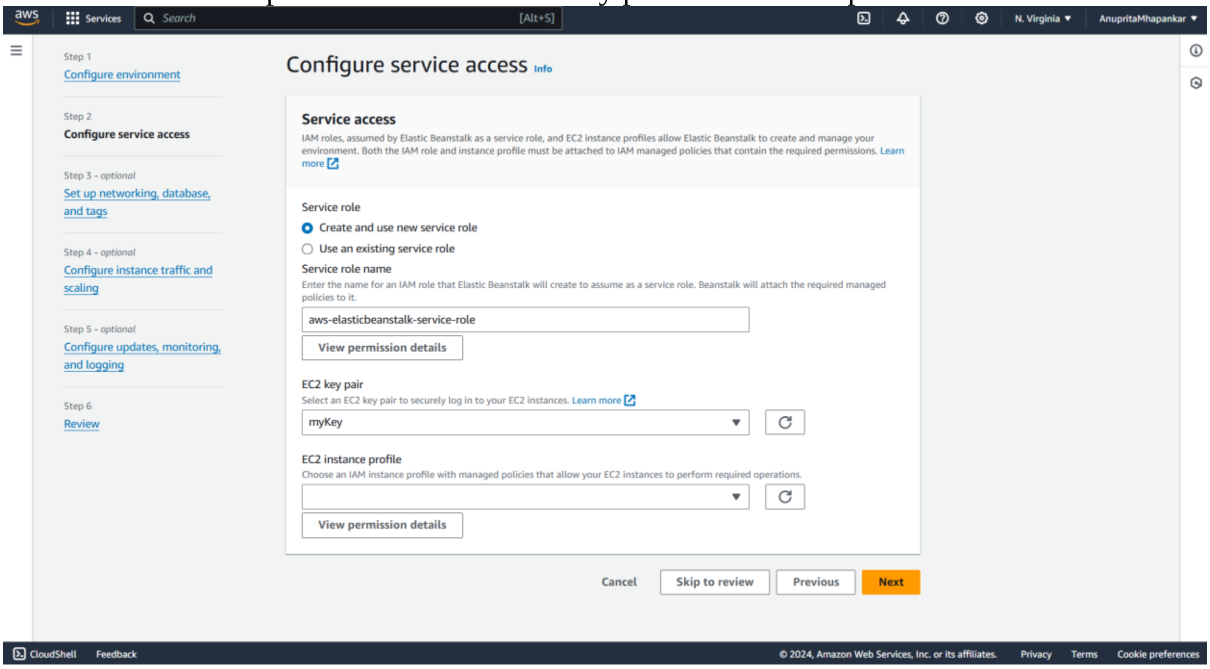
○ Existing version
Application versions that you have uploaded.

○ 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

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



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.

aws-elasticbeanstalk-service-role

View permission details

EC2 key pair
Select an EC2 key pair to securely log in to your EC2 instances. Learn more

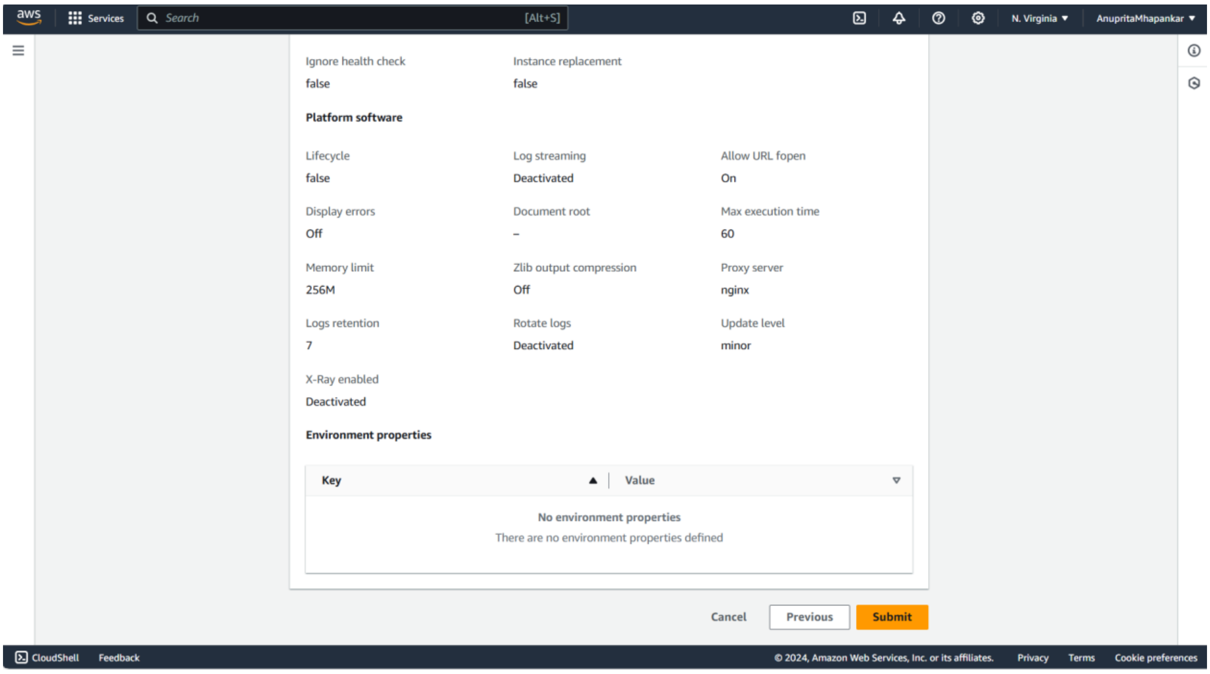
myKey

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

View permission details

Cancel | Skip to review | Previous | Next

5. Review the changes made and click on Submit



Ignore health check
false

Instance replacement
false

Platform software

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

Environment properties

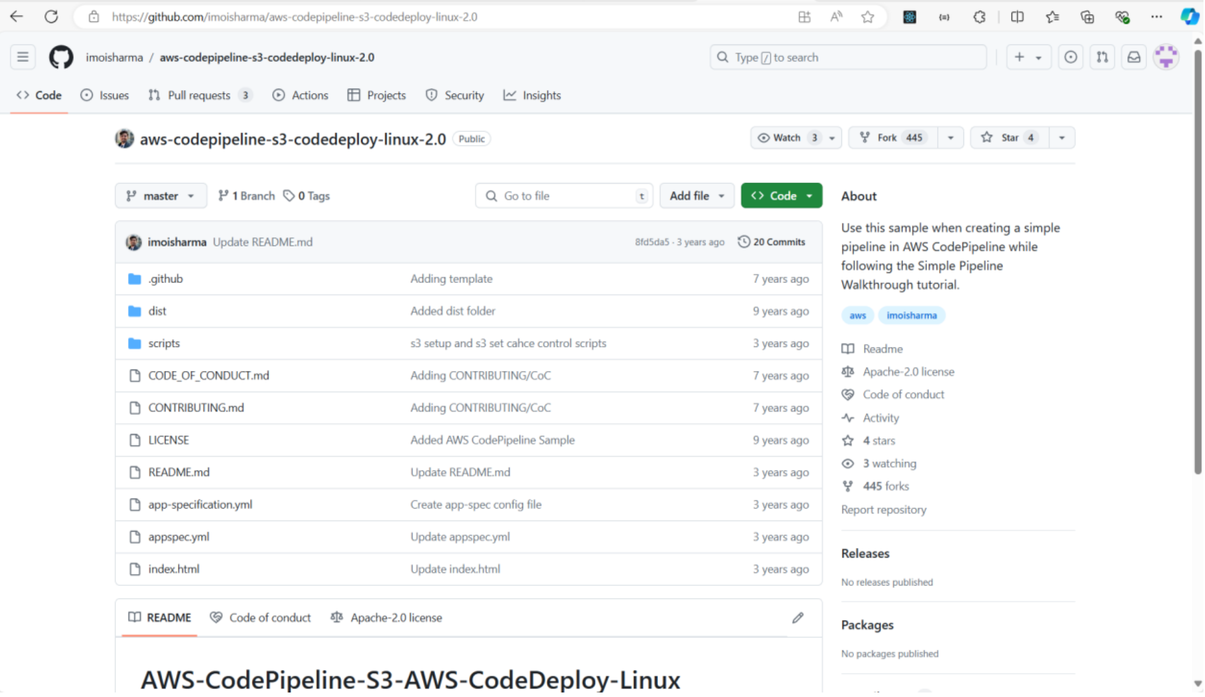
Key	Value

No environment properties

There are no environment properties defined

Pipeline Creation :

1. Fork a github repo for aws codepipeline.



aws-codepipeline-s3-codedeploy-linux-2.0

imoisharma Update README.md — 8fd5da5 · 3 years ago — 20 Commits

.github	Adding template	7 years ago
dist	Added dist folder	9 years ago
scripts	s3 setup and s3 set cahce control scripts	3 years ago
CODE_OF_CONDUCT.md	Adding CONTRIBUTING/CoC	7 years ago
CONTRIBUTING.md	Adding CONTRIBUTING/CoC	7 years ago
LICENSE	Added AWS CodePipeline Sample	9 years ago
README.md	Update README.md	3 years ago
app-specification.yml	Create app-spec config file	3 years ago
appspec.yml	Update appspec.yml	3 years ago
index.html	Update index.html	3 years ago

About

Use this sample when creating a simple pipeline in AWS CodePipeline while following the Simple Pipeline Walkthrough tutorial.

aws imoisharma

Readme
Apache-2.0 license
Code of conduct
Activity
4 stars
3 watching
445 forks
Report repository

Releases

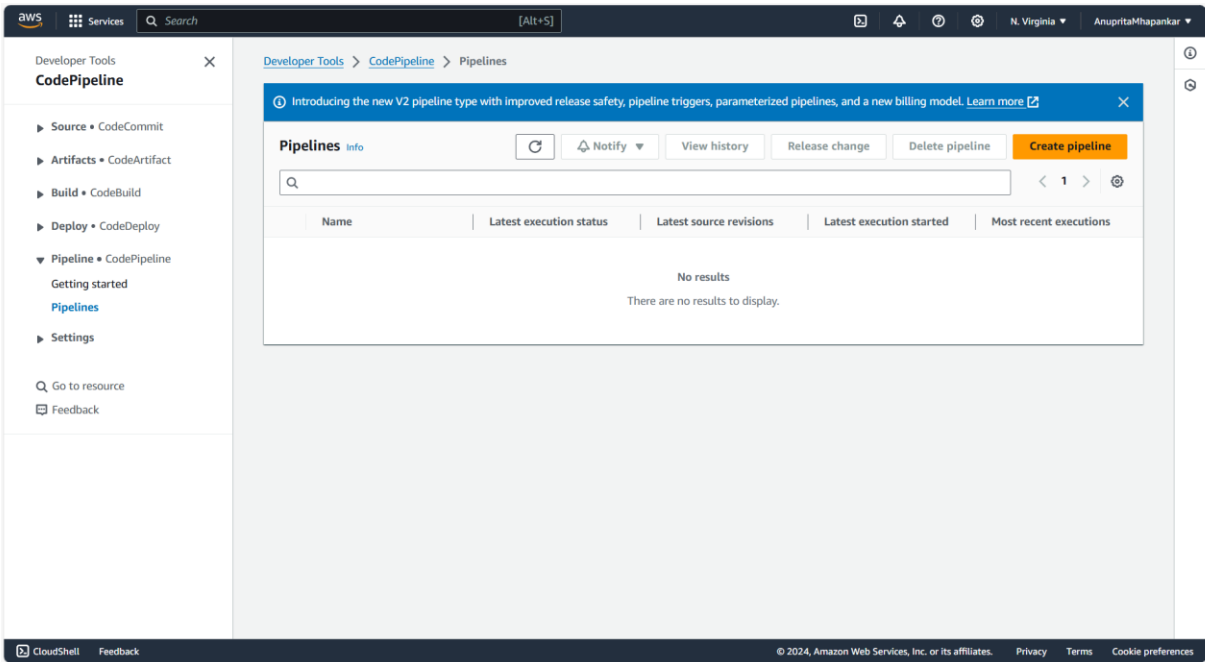
No releases published

Packages

No packages published

AWS-CodePipeline-S3-AWS-CodeDeploy-Linux

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



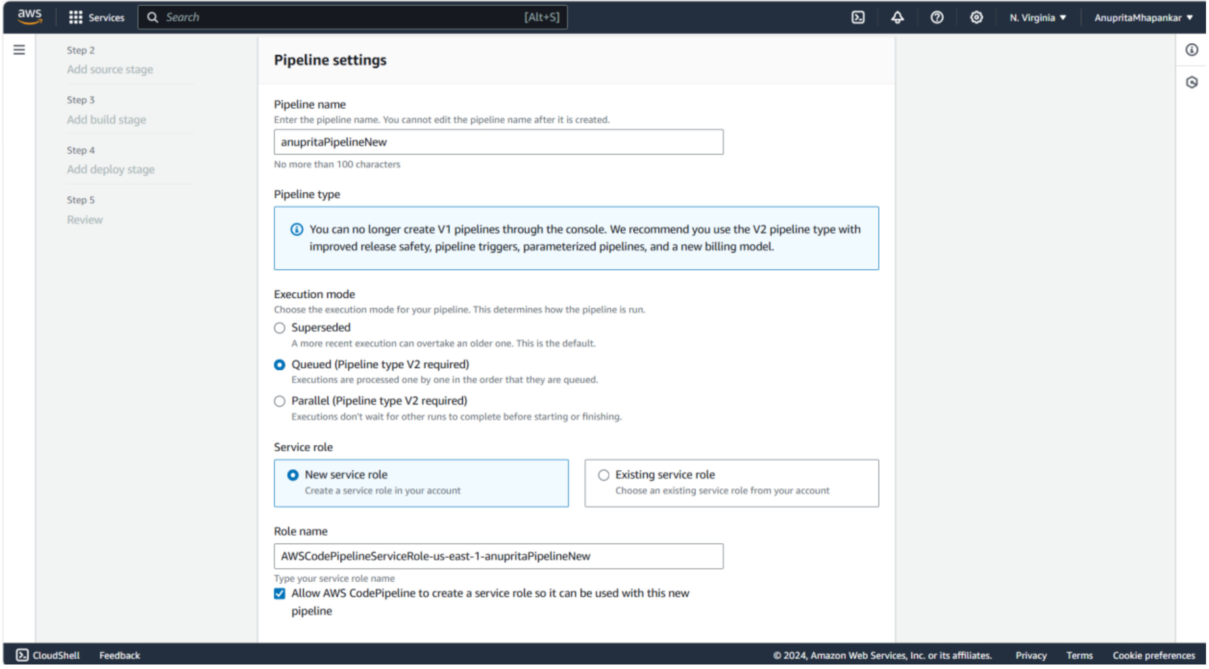
Introducing the new V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model. Learn more

Name	Latest execution status	Latest source revisions	Latest execution started	Most recent executions

No results

There are no results to display.

3. Name your pipeline and select the desired service role



Pipeline settings

Pipeline name

Enter the pipeline name. You cannot edit the pipeline name after it is created.

anupritaPipelineNew

No more than 100 characters

Pipeline type

You can no longer create V1 pipelines through the console. We recommend you use the V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model.

Execution mode

Choose the execution mode for your pipeline. This determines how the pipeline is run.

○ Superseded
A more recent execution can overtake an older one. This is the default.

● Queued (Pipeline type V2 required)
Executions are processed one by one in the order that they are queued.

○ Parallel (Pipeline type V2 required)
Executions don't wait for other runs to complete before starting or finishing.

Service role

● New service role
Create a service role in your account

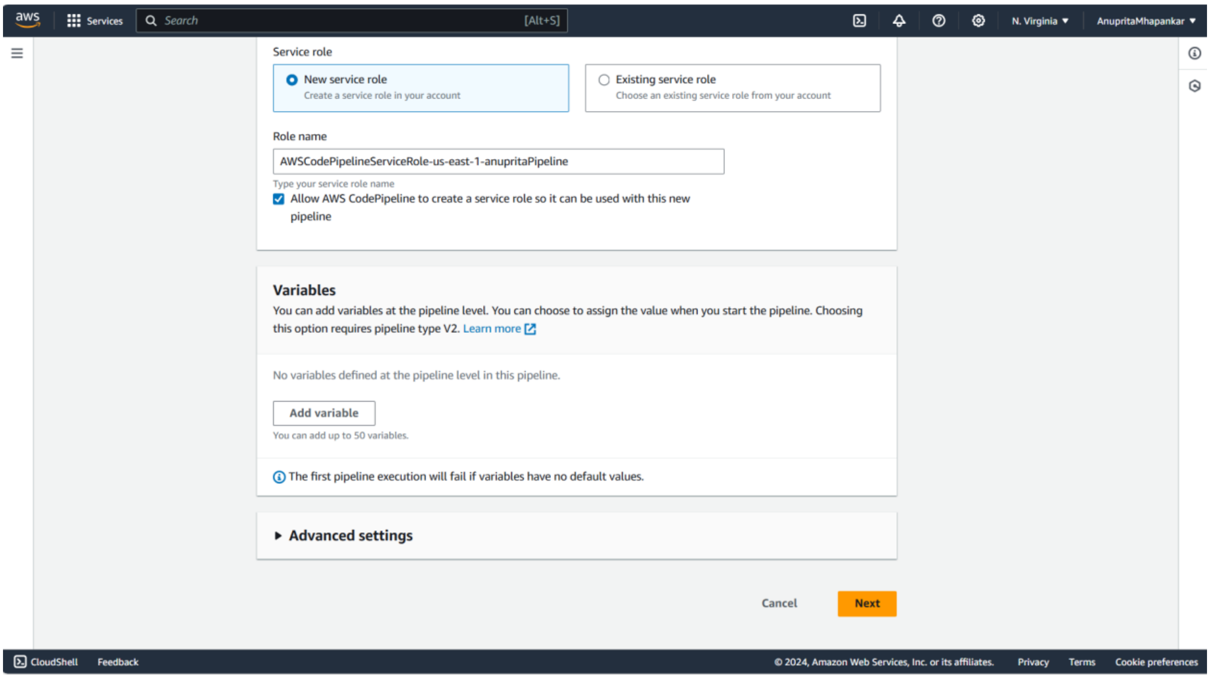
○ Existing service role
Choose an existing service role from your account

Role name

AWSCodePipelineServiceRole-us-east-1-anupritaPipelineNew

Type your service role name

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



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

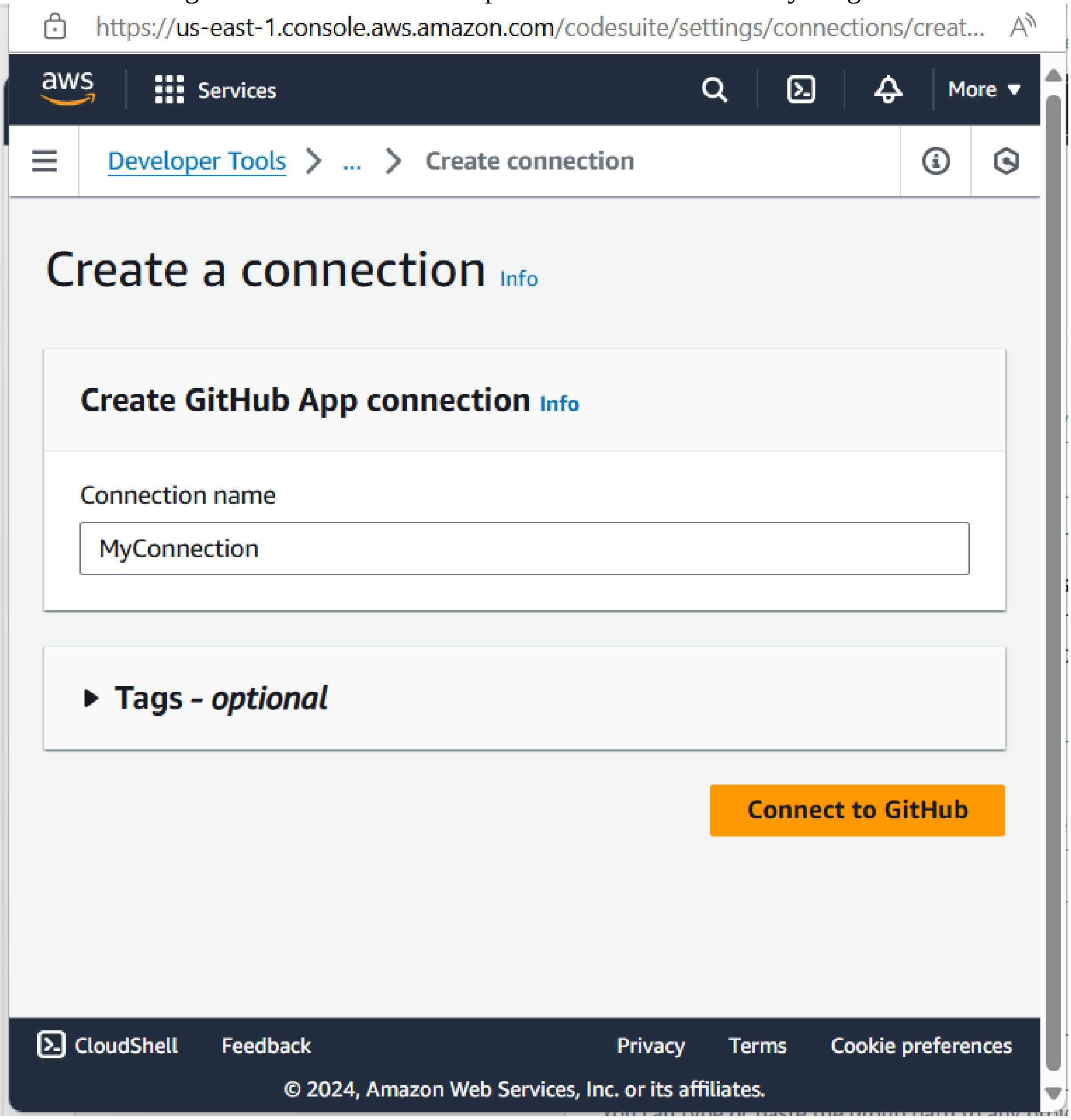
No variables defined at the pipeline level in this pipeline.

You can add up to 50 variables.

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

▸ Advanced settings

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...
aws
Services
More ▾
Developer Tools > ... > Create connection

Create a connection Info

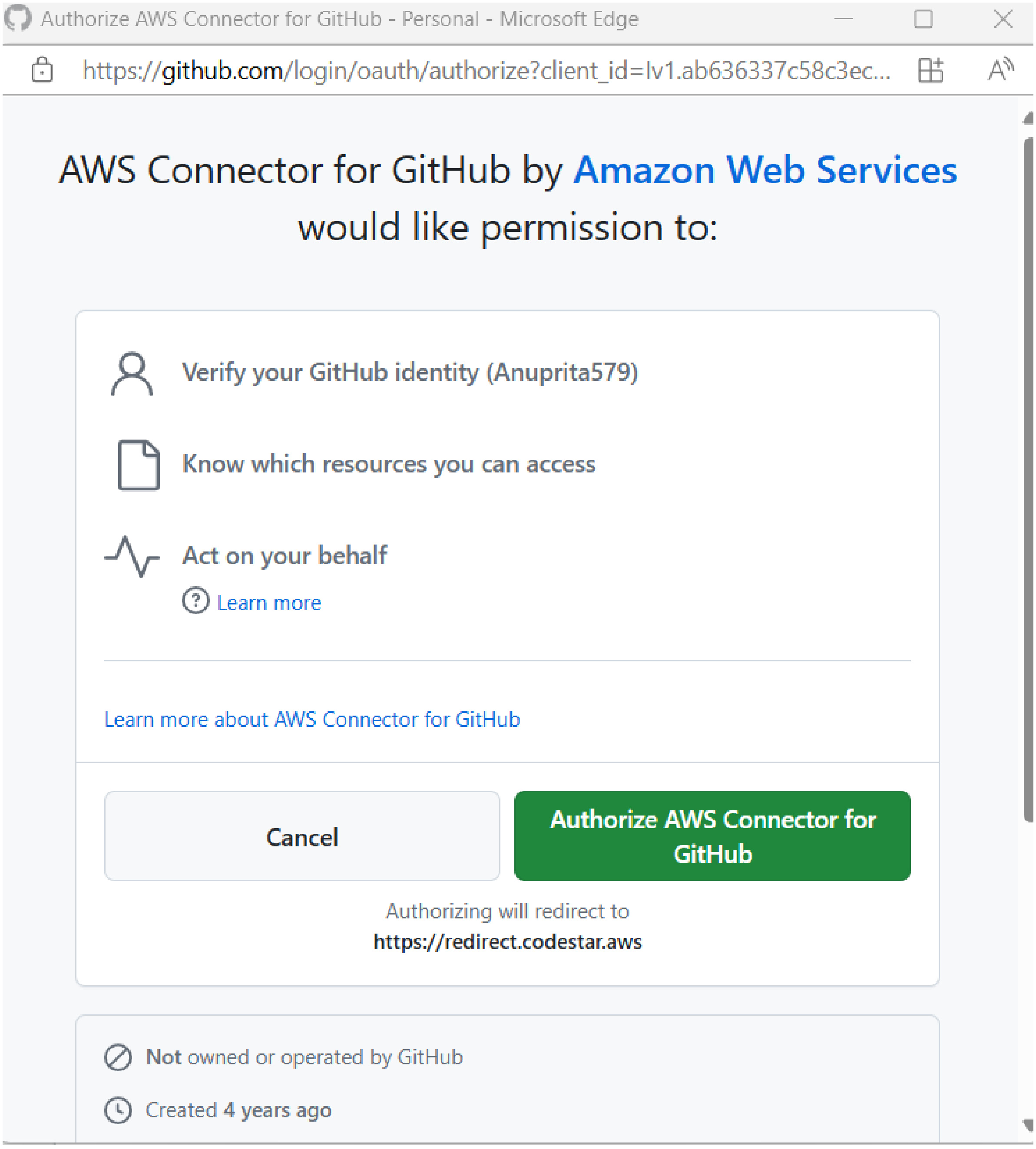
Create GitHub App connection Info

Connection name

MyConnection

▸ Tags - *optional*

Connect to GitHub
CloudShell
Feedback
Privacy
Terms
Cookie preferences
© 2024, Amazon Web Services, Inc. or its affiliates.


Authorize AWS Connector for GitHub - Personal - Microsoft Edge

https://github.com/login/oauth/authorize?client_id=Iv1.ab636337c58c3ec...

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

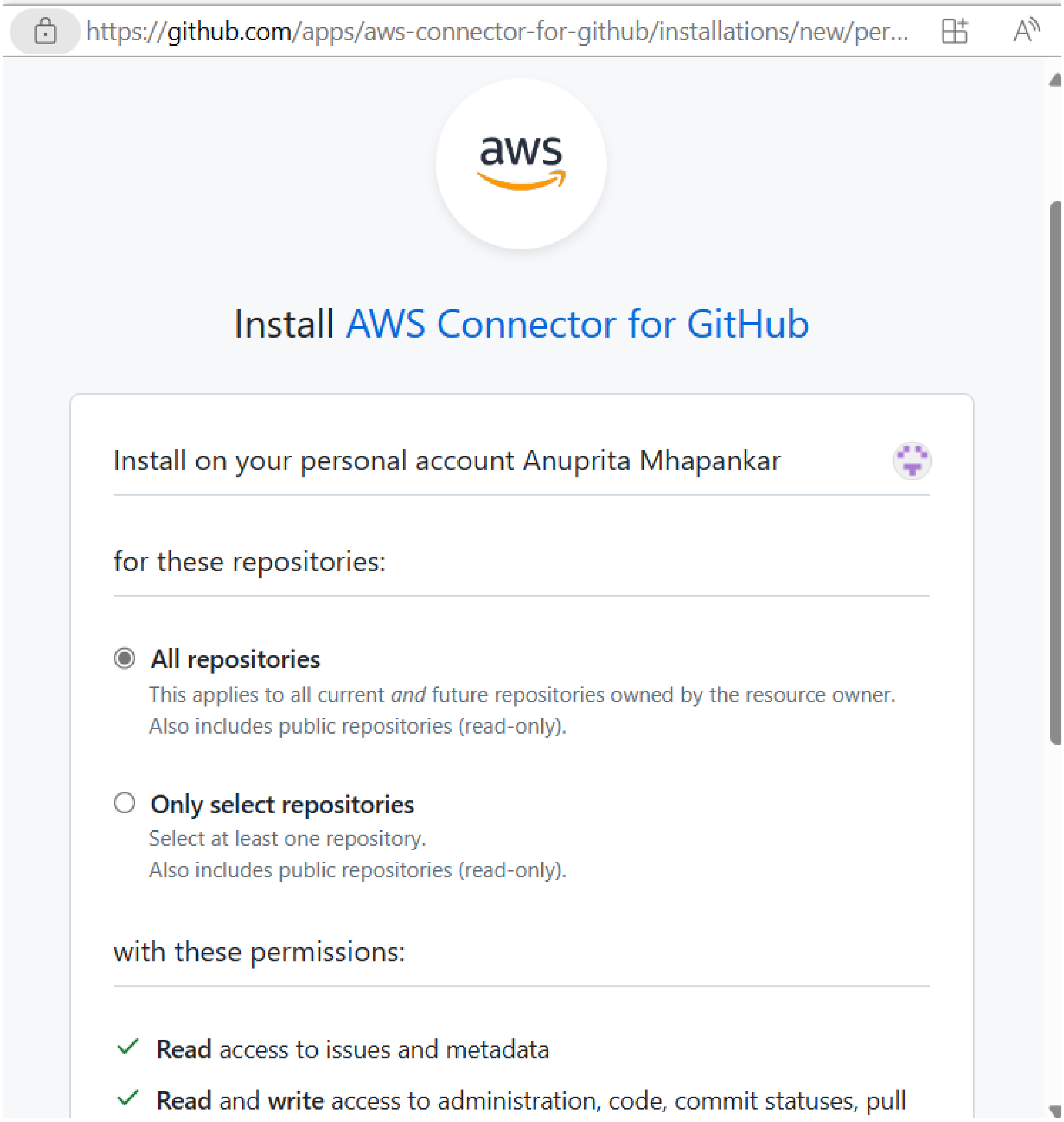
Learn more

Learn more about AWS Connector for GitHub

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...

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).

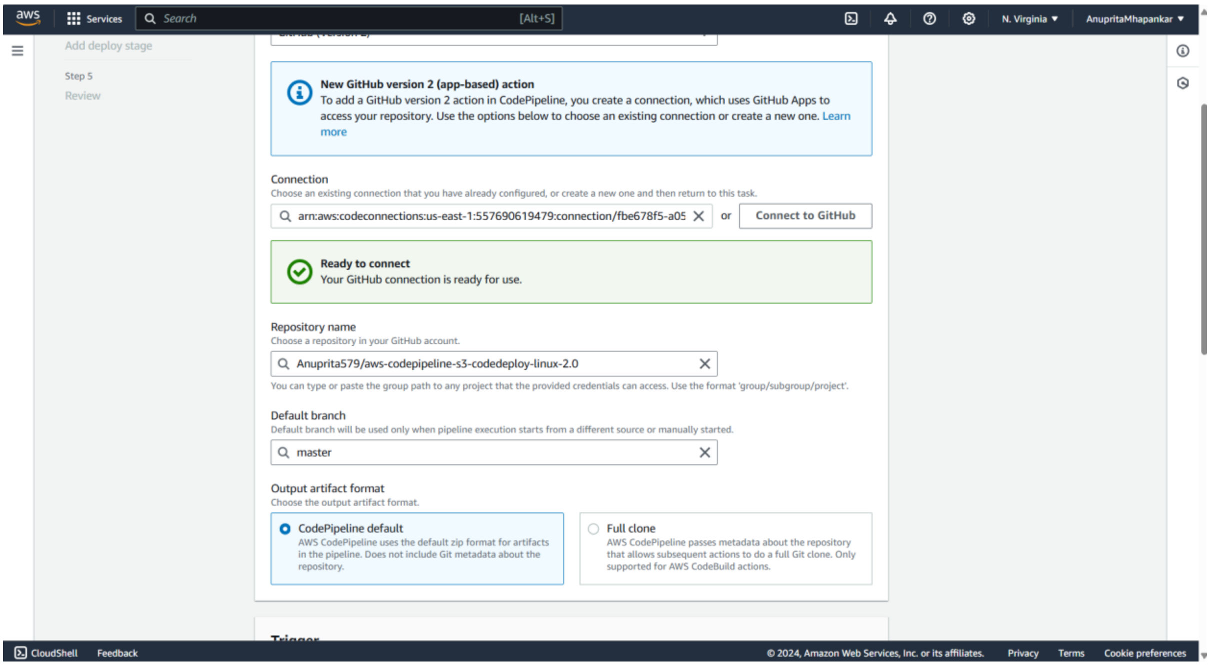
○ **Only select repositories**
Select at least one repository.
Also includes public repositories (read-only).

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



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

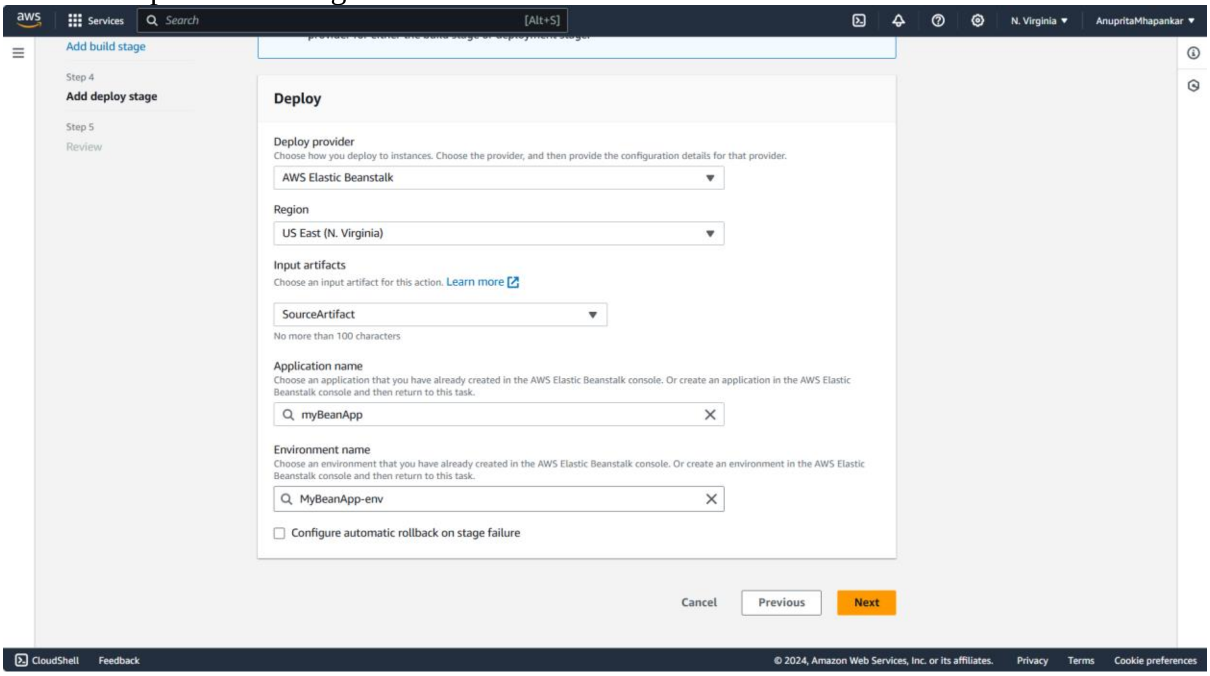
Ready to connect
Your GitHub connection is ready for use.

Repository name
Choose a repository in your GitHub account.
Anuprita579/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.

6. Skip the build stage



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)

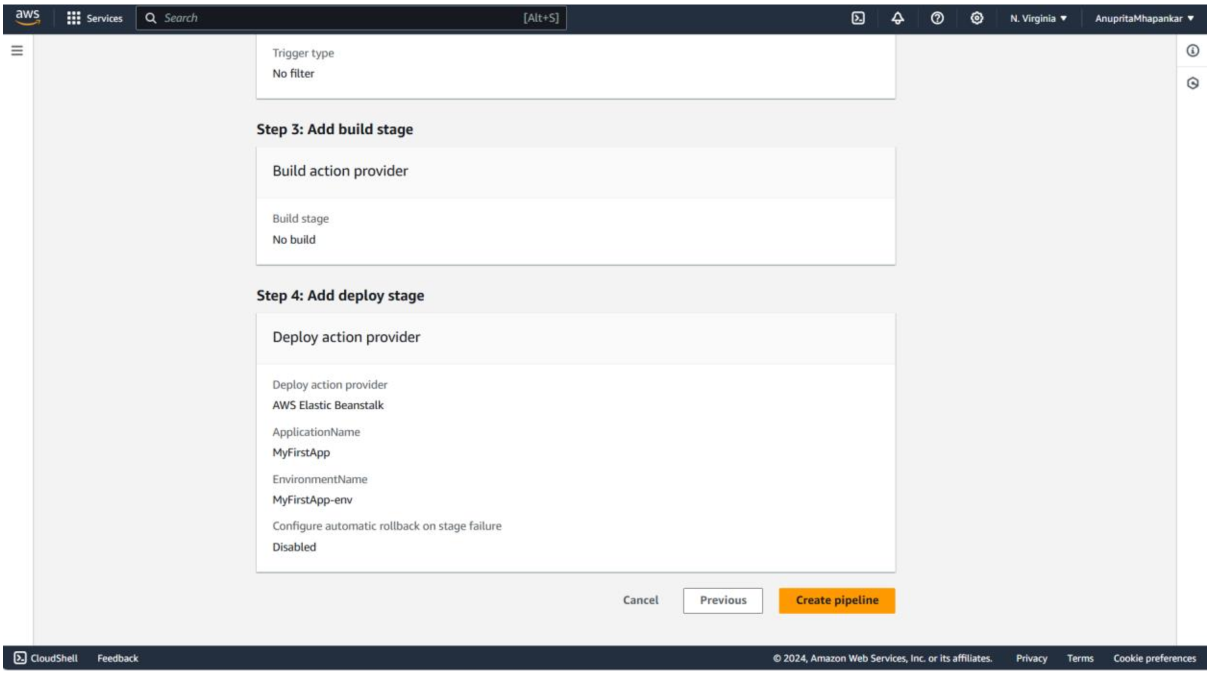
Input artifacts
Choose an input artifact for this action. Learn more
SourceArtifact
No more than 100 characters

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

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

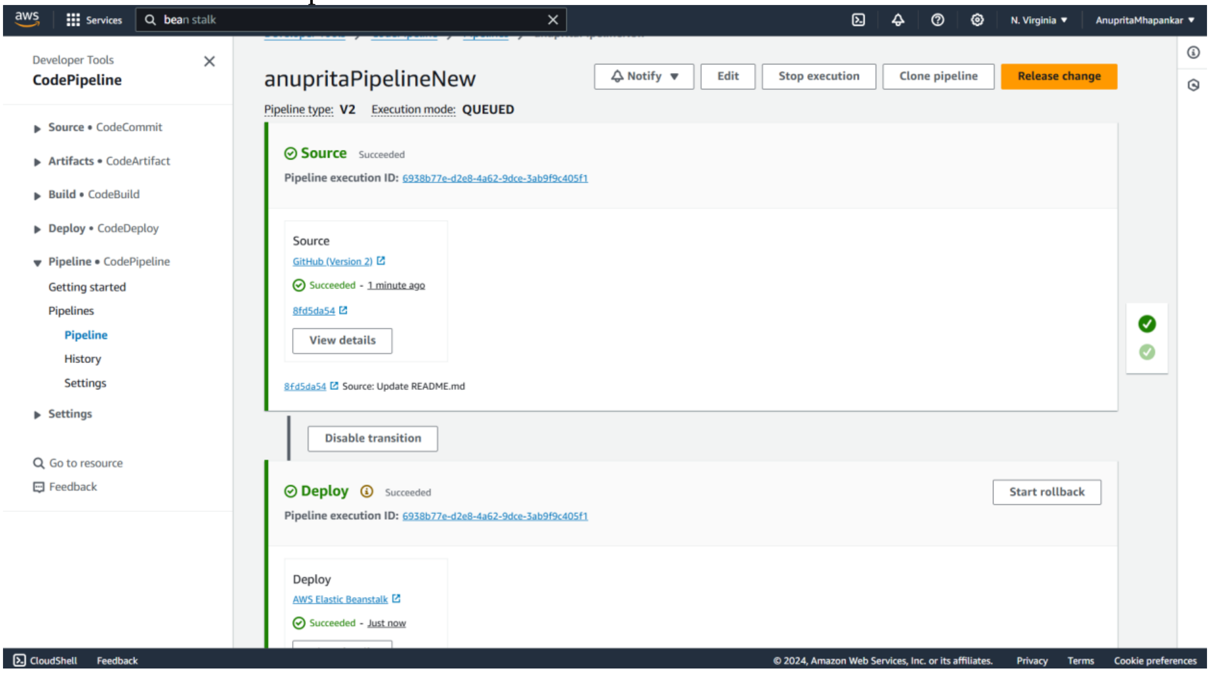
Deploy action provider
AWS Elastic Beanstalk

ApplicationName
MyFirstApp

EnvironmentName
MyFirstApp-env

Configure automatic rollback on stage failure
Disabled

8. Check the URL provided in the EBS environment.



anupritaPipelineNew

Pipeline type: V2 Execution mode: QUEUED

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

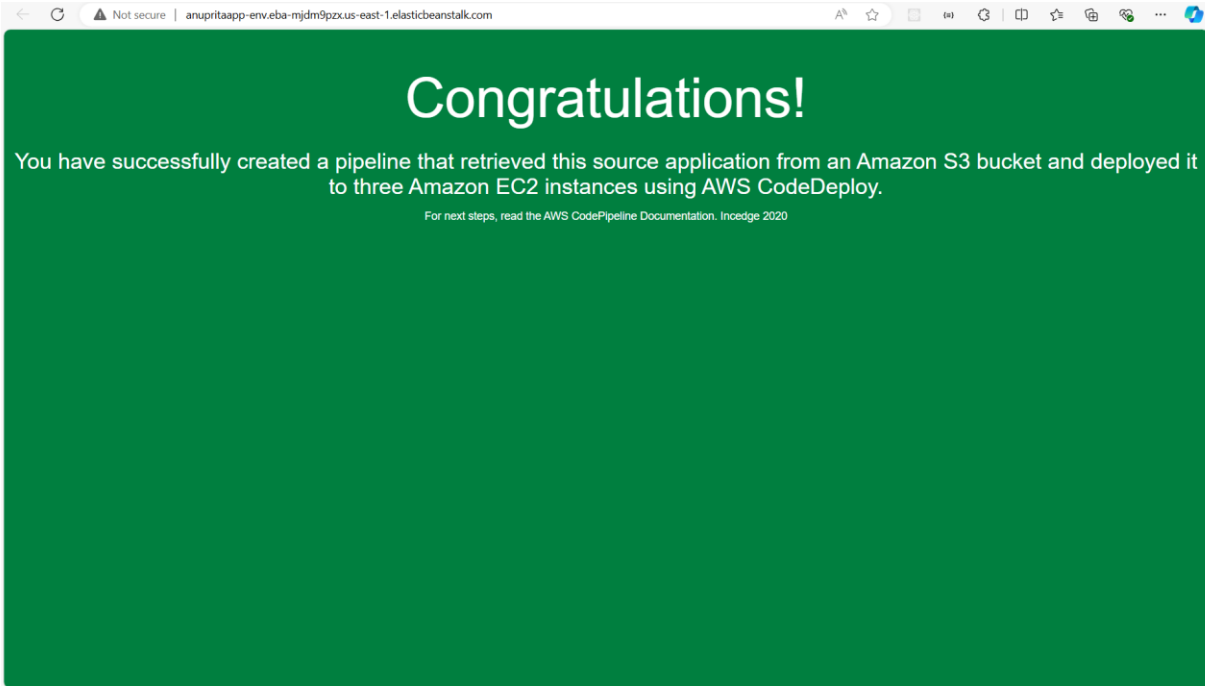
Source
GitHub (Version 2)
Succeeded - 1 minute ago
8fd5da54

8fd5da54 Source: Update README.md

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

Deploy
AWS Elastic Beanstalk
Succeeded - Just now

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



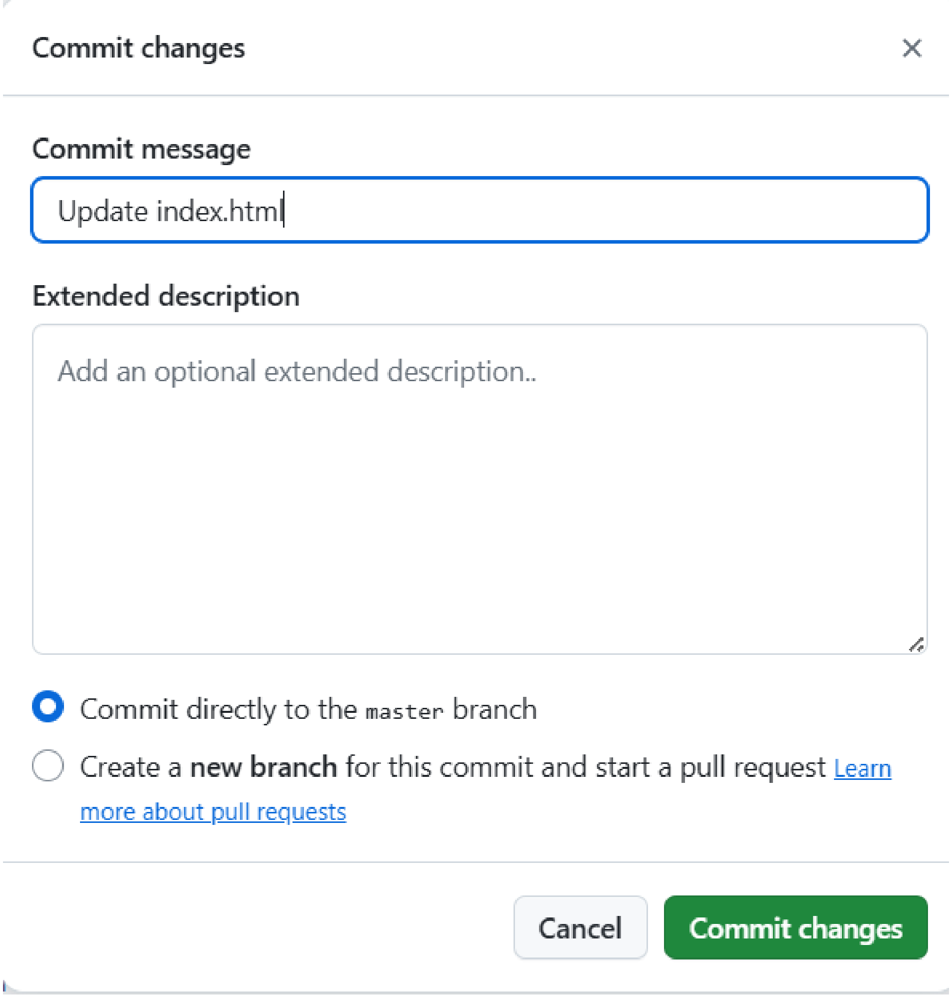
Not secure | anupritaapp-env.eba-mjdm9pzx.us-east-1.elasticbeanstalk.com

Congratulations!

You have successfully created a pipeline that retrieved this source application from an Amazon S3 bucket and deployed it to three Amazon EC2 instances using AWS CodeDeploy.

For next steps, read the AWS CodePipeline Documentation. Incedge 2020

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



Commit changes ✕

Commit message

Update index.html

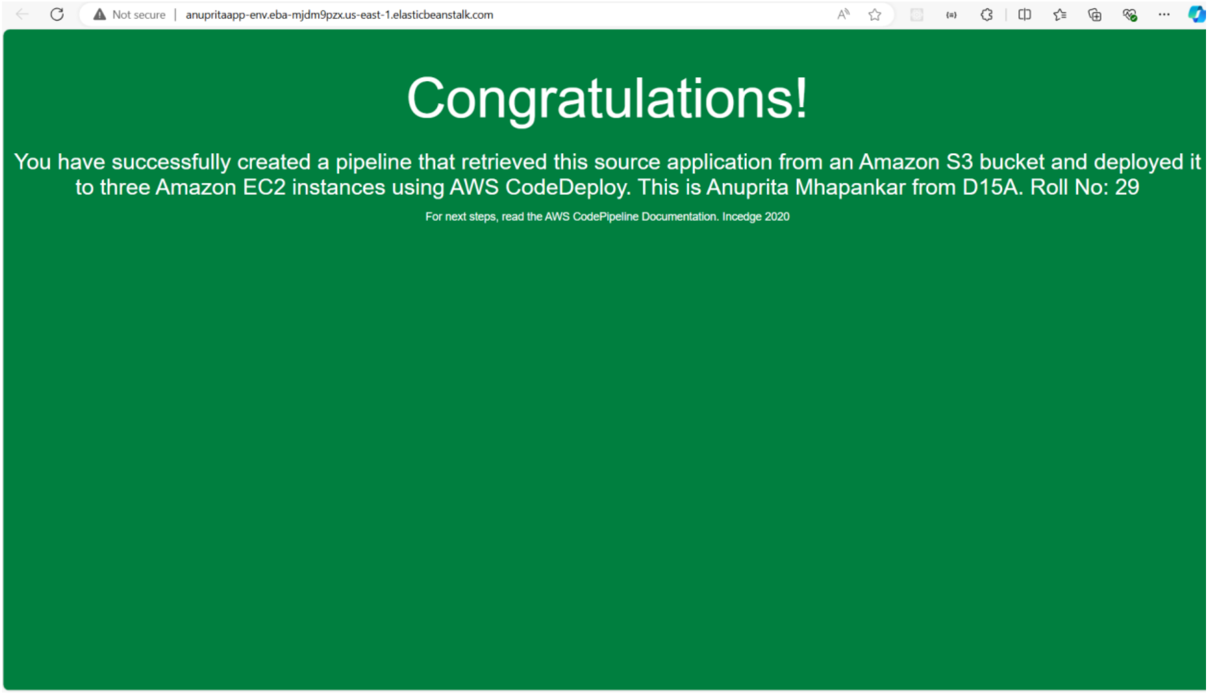
Extended description

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

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



Not secure | anupritaapp-env.eba-mjdm9pzx.us-east-1.elasticbeanstalk.com

Congratulations!

You have successfully created a pipeline that retrieved this source application from an Amazon S3 bucket and deployed it to three Amazon EC2 instances using AWS CodeDeploy. This is Anuprita Mhapankar from D15A. Roll No: 29

For next steps, read the AWS CodePipeline Documentation. Incedge 2020