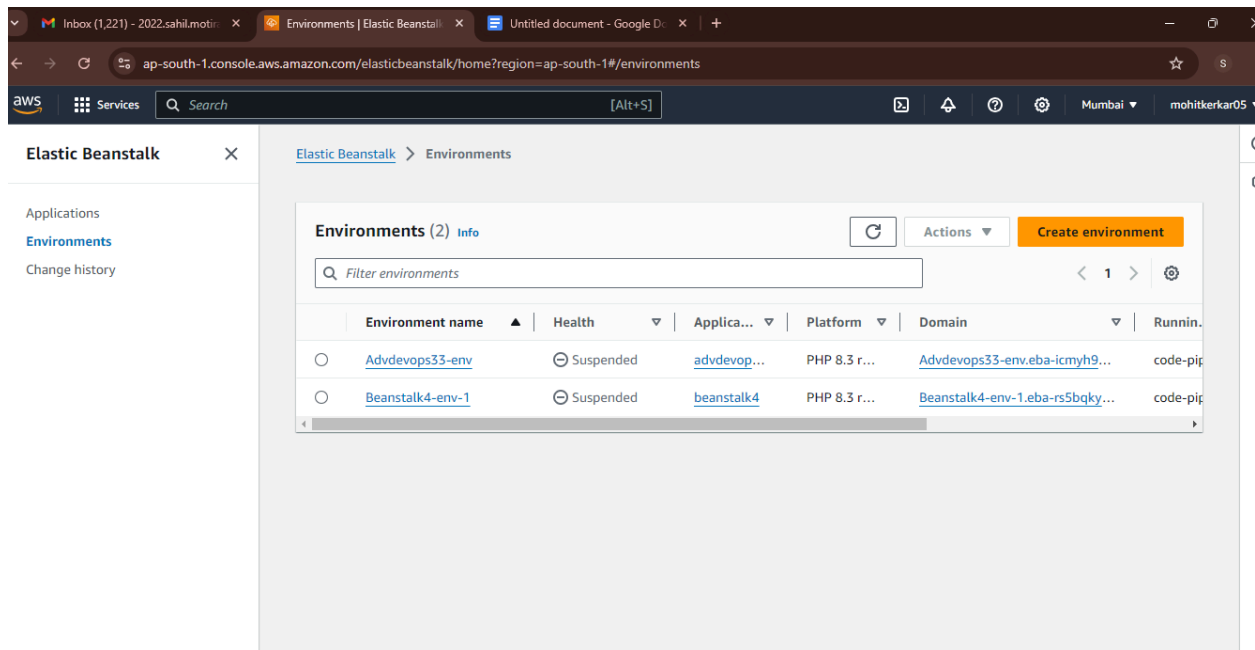
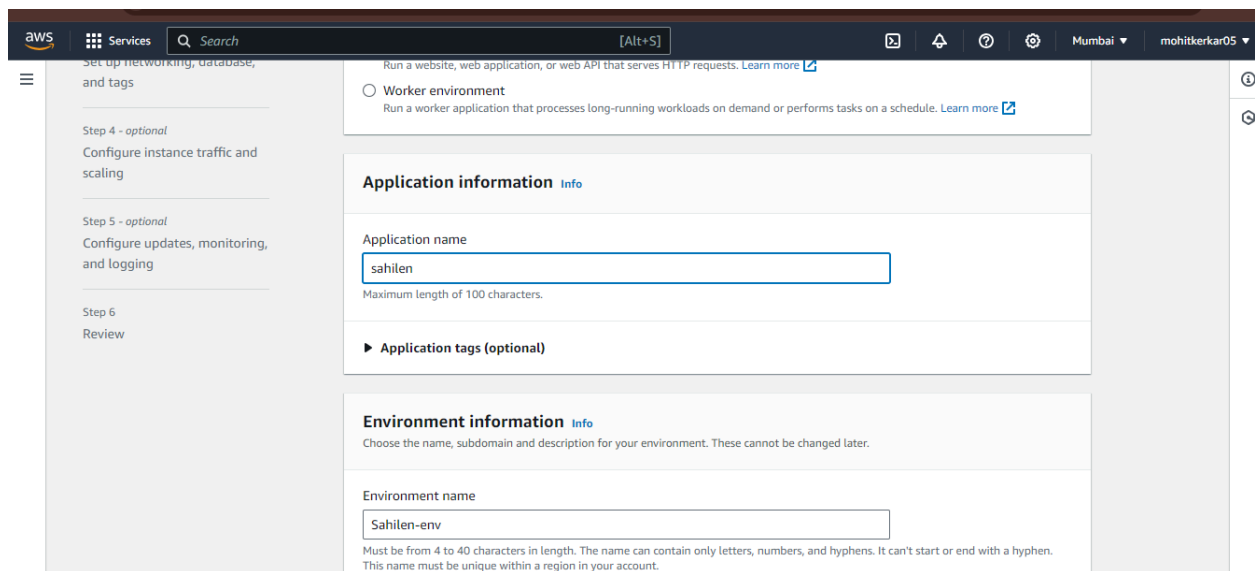


Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

1.Login to your AWS account and got to services , search for Elastic Beanstalk in search box open up Elastic Beanstalk and Create Your environment.



2. Give Name to tour application.



3.Configure the Service roles.

The screenshot shows the 'Configure service access' wizard in the AWS IAM console. The left sidebar lists steps: 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 for Step 3. It has a heading '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](#).' Below this, there are three sections: 'Service role' with radio buttons for 'Create and use new service role' (unselected) and 'Use an existing service role' (selected); 'Existing service roles' with a dropdown menu showing 'role1' and a refresh button; 'EC2 key pair' with a dropdown menu showing 'Choose a key pair' and a refresh button; and 'EC2 instance profile' with a dropdown menu showing 'role1' and a refresh button. A 'View permission details' button is at the bottom of the main content area. At the bottom of the wizard are buttons for 'Cancel', 'Skip to review', 'Previous', and 'Next'.

Skip the Further steps and directly go to the review part.

4.Click on Create environment,Then your environment will be created.

The screenshot shows the AWS Elastic Beanstalk console. A green banner at the top says 'Environment successfully launched.' The breadcrumb navigation is 'Elastic Beanstalk > Environments > Sahilen-env'. The main heading is 'Sahilen-env Info'. On the right, there are buttons for 'Actions' and 'Upload and deploy'. Below the heading, there are two panels: 'Environment overview' and 'Platform'. The 'Environment overview' panel shows a 'Health' status of 'Warning' with a yellow triangle icon, an 'Environment ID' of 'e-ki78g7jttf', a 'Domain' of 'Sahilen-env.eba-ez4t5bmy.ap-south-1.elasticbeanstalk.com', and an 'Application name' of 'sahilen'. The 'Platform' panel shows a 'Platform' of 'PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2', a 'Running version' of '-', and a 'Platform state' of 'Supported' with a green checkmark icon. At the bottom, there are tabs for 'Events', 'Health', 'Logs', 'Monitoring', 'Alarms', 'Managed updates', and 'Tags'.

Step 2: Create an new Pipeline.

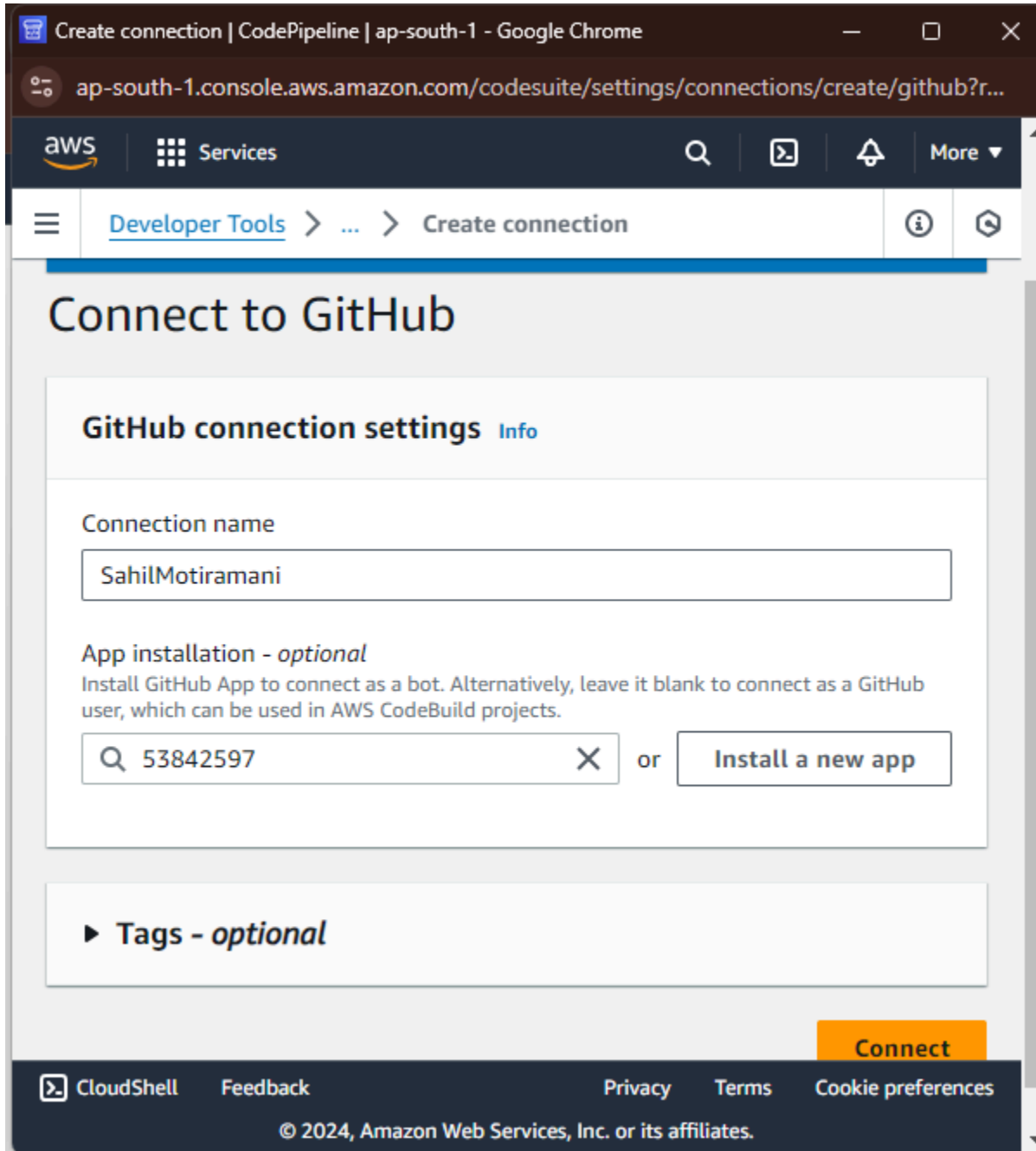
1. Now, Navigate to the services and Search for Code Pipeline → Pipelines → Create new pipeline.

The screenshot shows the AWS CodePipeline console interface. The breadcrumb navigation is 'Developer Tools > CodePipeline > Pipelines > Create new pipeline'. The main heading is 'Choose pipeline settings' with a sub-heading 'Step 1 of 5'. On the left, a sidebar lists five 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'. The 'Pipeline settings' section contains a 'Pipeline name' field with the value 'sahilm' and a note 'No more than 100 characters'. Below this is a 'Pipeline type' section with a blue information box stating: '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.' The 'Execution mode' section has a radio button selected for 'Superseded' with the text 'A more recent execution can overtake an older one. This is the default.'

2. Connect AWS with Git Hub and give the access.

The screenshot shows a web browser window titled 'Authorize AWS Connector for GitHub - Google Chrome'. The address bar shows a GitHub OAuth authorization URL. The main heading is 'AWS Connector for GitHub by Amazon Web Services would like permission to:'. Below this, there are three items: 'Verify your GitHub identity (SahilMotiramani)', 'Know which resources you can access', and 'Act on your behalf' with a 'Learn more' link. At the bottom, there are two buttons: 'Cancel' and 'Authorize AWS Connector for GitHub'. Below the buttons, it says 'Authorizing will redirect to https://redirect.codestar.aws'. At the very bottom, there is a note 'Not owned or operated by GitHub' and 'Created 4 years ago'.

3.Connect to GitHub.



Create connection | CodePipeline | ap-south-1 - Google Chrome

ap-south-1.console.aws.amazon.com/codesuite/settings/connections/create/github?r...

aws Services

Developer Tools > ... > Create connection

Connect to GitHub

GitHub connection settings [Info](#)

Connection name

SahilMotiramani

App installation - *optional*

Install GitHub App to connect as a bot. Alternatively, leave it blank to connect as a GitHub user, which can be used in AWS CodeBuild projects.

53842597 or [Install a new app](#)

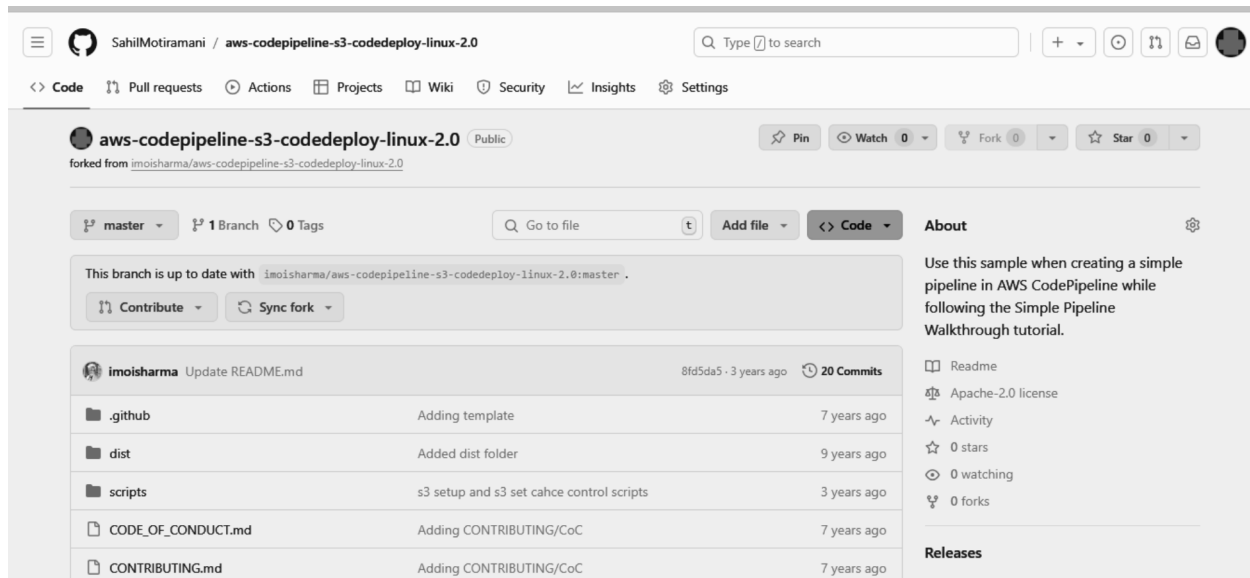
► **Tags - optional**

[Connect](#)

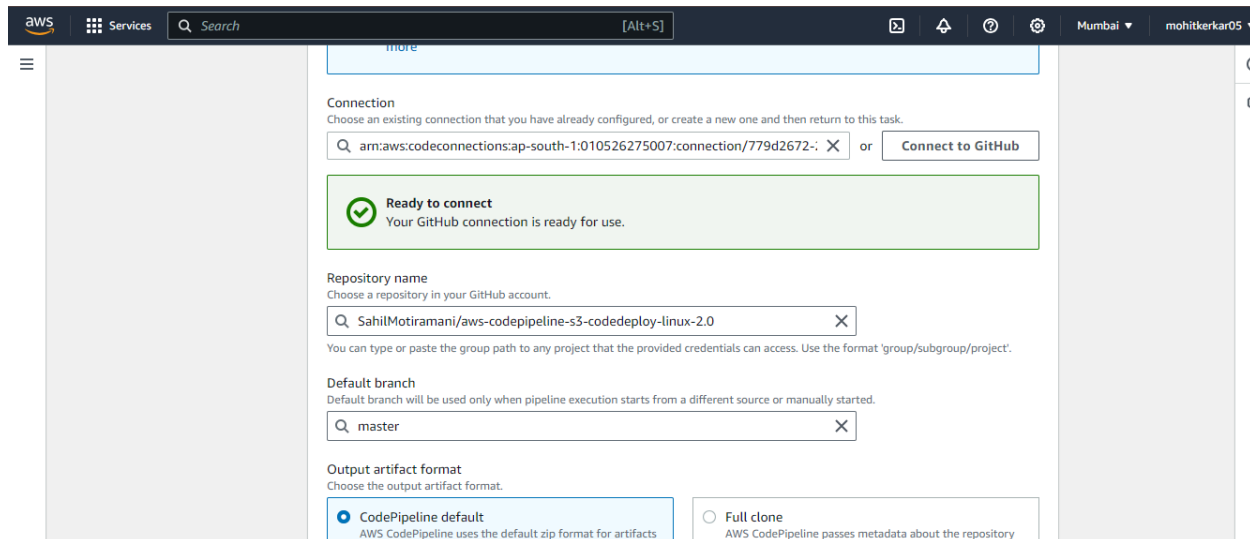
CloudShell Feedback Privacy Terms Cookie preferences

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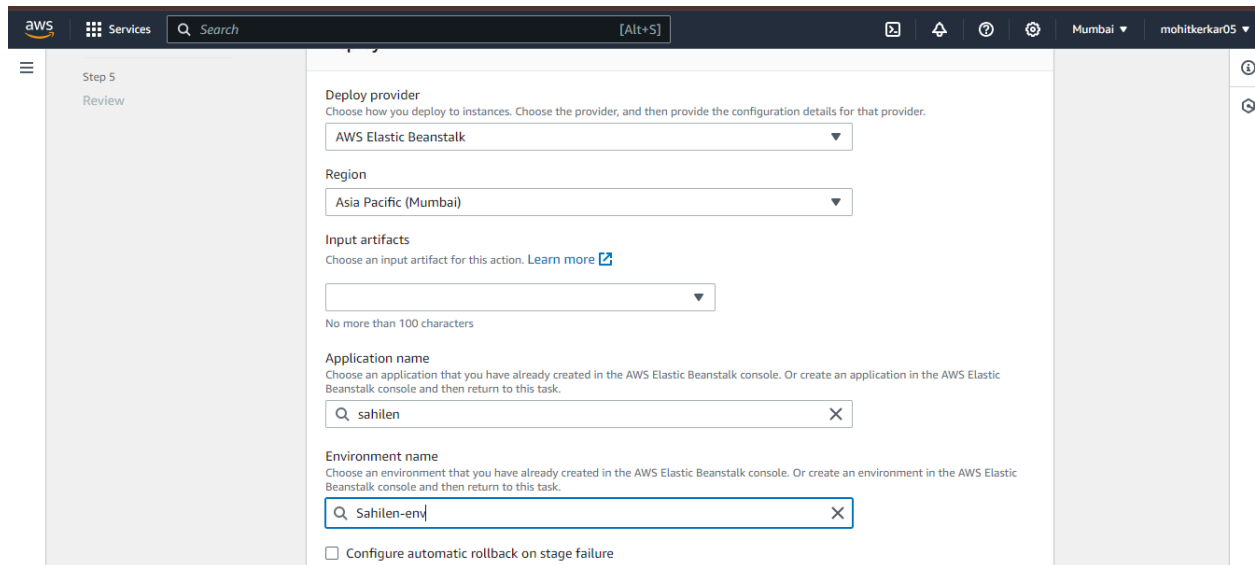
4.Fork the repository named aws-codepipeline-s3-codeplay-linux-2.0.



5.select the repository which you have forked.



6.select the application and environment name.



aws Services Search [Alt+S]

Step 5
Review

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

AWS Elastic Beanstalk

Region
Asia Pacific (Mumbai)

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.

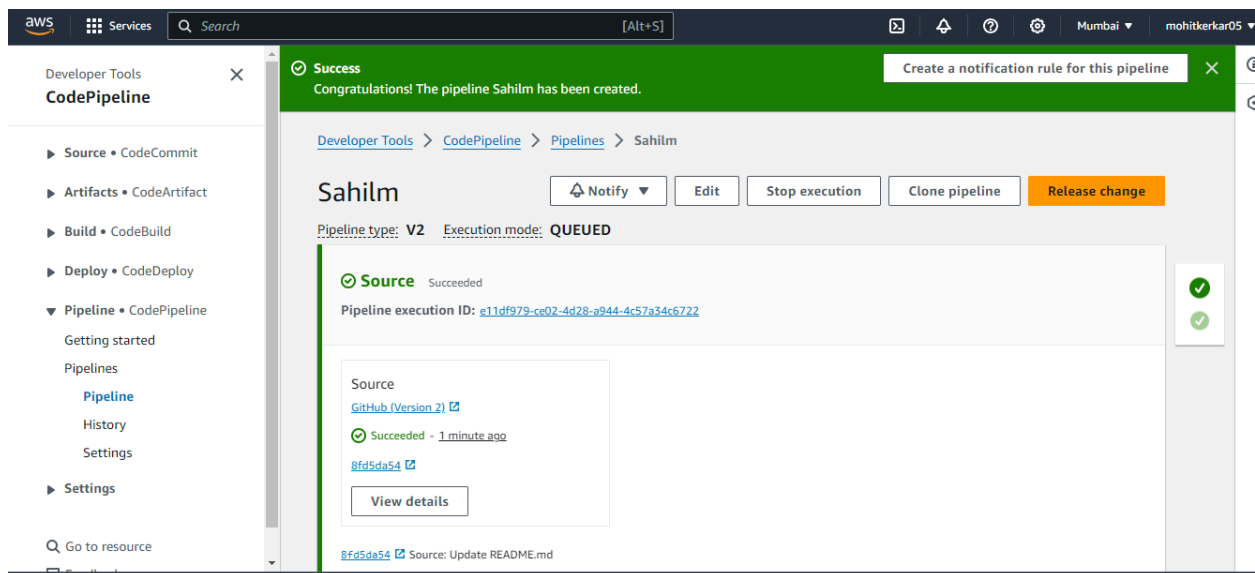
sahilen

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.

Sahilen-env

☐ Configure automatic rollback on stage failure

7.The pipeline will be created.



aws Services Search [Alt+S]

Developer Tools
CodePipeline

Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings

Go to resource

Success
Congratulations! The pipeline Sahilm has been created.

Create a notification rule for this pipeline

Developer Tools > CodePipeline > Pipelines > Sahilm

Sahilm

Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

Source Succeeded

Pipeline execution ID: [g11df979-ce02-4d28-p944-4c57a34c6722](#)

Source
[GitHub \(Version 2\)](#)
Succeeded - 1 minute ago
[8fd5da54](#)
View details

[8fd5da54](#) Source: Update README.md

8. Make some changes in the forked repository using github

Here, I have made a change by adding my name "Sahil" after "Congratulations".

```
14
15     h1 {
16         font-size: 500%;
17         font-weight: normal;
18         margin-bottom: 0;
19     }
20
21     h2 {
22         font-size: 200%;
23         font-weight: normal;
24         margin-bottom: 0;
25     }
26 </style>
27 </head>
28 <body>
29     <div align="center">
30         <h1>Congratulations Sahil!</h1>
31         <h2>You have successfully created a pipeline that retrieved this source application from an Amazon S3 bucket and deployed it
32             to three Amazon EC2 instances using AWS CodeDeploy.</h2>
33         <p>For next steps, read the AWS CodePipeline Documentation. Incedge 2020</p>
34     </div>
35 </body>
36 </html>
37
38
```

9.Commit the changes and Reload the environment the changes will be seen.

Congratulations Sahil!

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