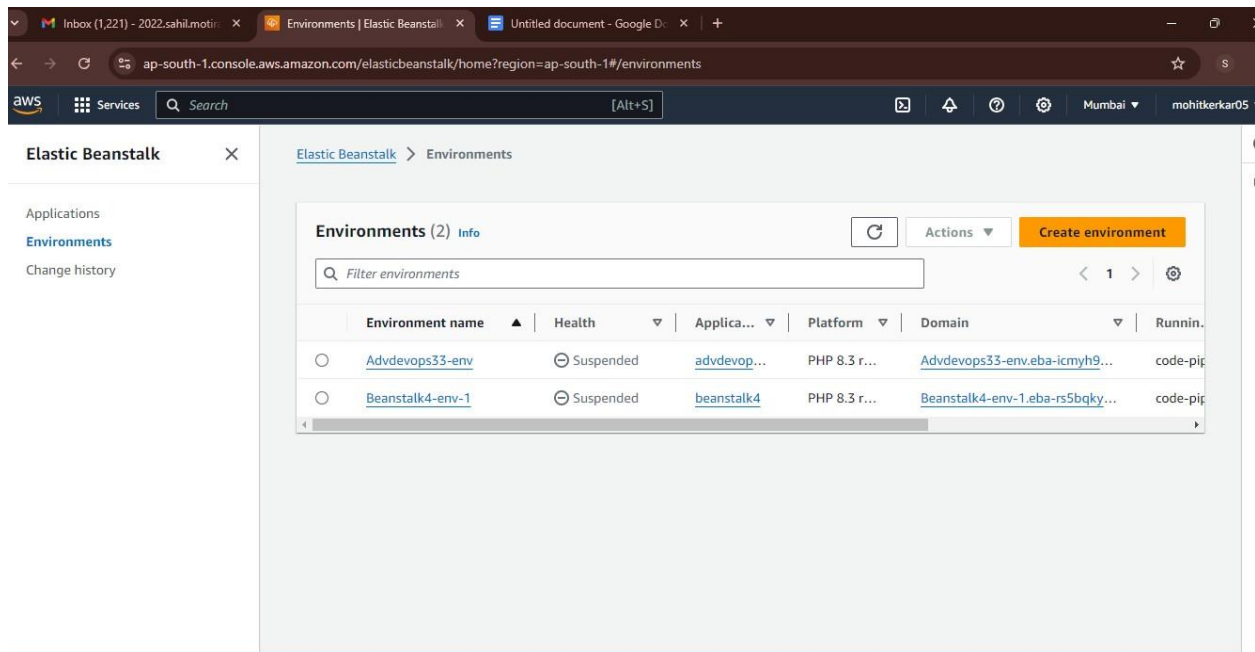
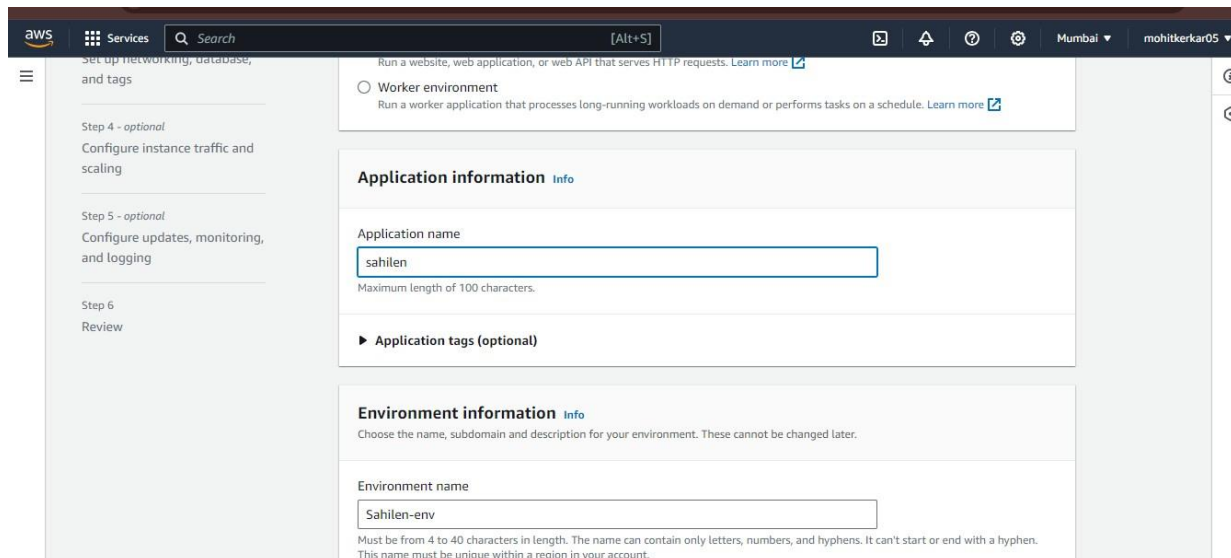


Aim: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

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 roles' step in the AWS IAM console. The left sidebar lists the 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 titled 'Configure service roles' and includes a warning about IAM roles. It offers two options for the service role: 'Create and use new service role' (unselected) and 'Use an existing service role' (selected). Under 'Existing service roles', it prompts to choose an IAM role for Elastic Beanstalk, with 'role1' selected in the dropdown. It also prompts to choose an EC2 key pair, with 'Choose a key pair' selected. For the 'EC2 instance profile', 'role1' is selected. A 'View permission details' button is present. At the bottom, there are 'Cancel', 'Skip to review', 'Previous', and 'Next' buttons.

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 states 'Environment successfully launched.' The breadcrumb navigation is 'Elastic Beanstalk > Environments > Sahilen-env'. The main heading is 'Sahilen-env' with an 'Info' link. On the right, there are 'Actions' and 'Upload and deploy' buttons. The 'Environment overview' section displays: Health (Warning), Environment ID (e-ki78g7jttf), Domain (Sahilen-env.eba-ez4t5bmy.ap-south-1.elasticbeanstalk.com), and Application name (sahilen). The 'Platform' section shows 'Platform: PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2', 'Running version: -', and 'Platform state: Supported'. The left sidebar shows the 'Environments' section selected, with 'Sahilen-env' highlighted. Below it, there are links for 'Go to environment', 'Configuration', 'Events', 'Health', 'Logs', and 'Monitoring'. At the bottom, there is a tabbed interface with 'Events' selected.

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. The breadcrumb navigation is: Developer Tools > CodePipeline > Pipelines > Create new pipeline. The left sidebar shows the steps: Step 1: Choose pipeline settings (active), Step 2: Add source stage, Step 3: Add build stage, Step 4: Add deploy stage, Step 5: Review. The main content area is titled 'Choose pipeline settings' with a sub-header 'Step 1 of 5'. Under 'Pipeline settings', there is a 'Pipeline name' field with the value 'sahilm' and a note: 'Enter the pipeline name. You cannot edit the pipeline name after it is created. No more than 100 characters'. Below this is the 'Pipeline type' section, which has a warning message: '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 description: 'Choose the execution mode for your pipeline. This determines how the pipeline is run. 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 the URL: github.com/login/oauth/authorize?client_id=lv1.ab636337c58c3ec1&redirect_uri=... The main content area is titled 'AWS Connector for GitHub by Amazon Web Services would like permission to:'. It lists three permissions: 'Verify your GitHub identity (SahilMotiramani)', 'Know which resources you can access', and 'Act on your behalf' with a 'Learn more' link. Below these is a link 'Learn more about AWS Connector for GitHub'. 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 X or [Install a new app](#)

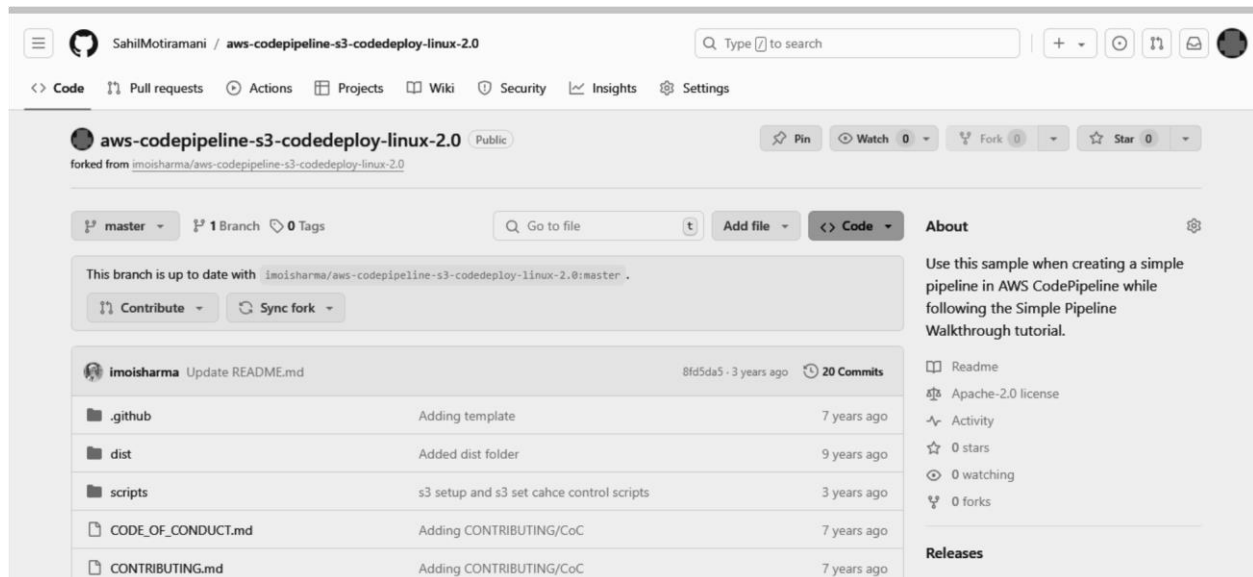
► **Tags - *optional***

[Connect](#)

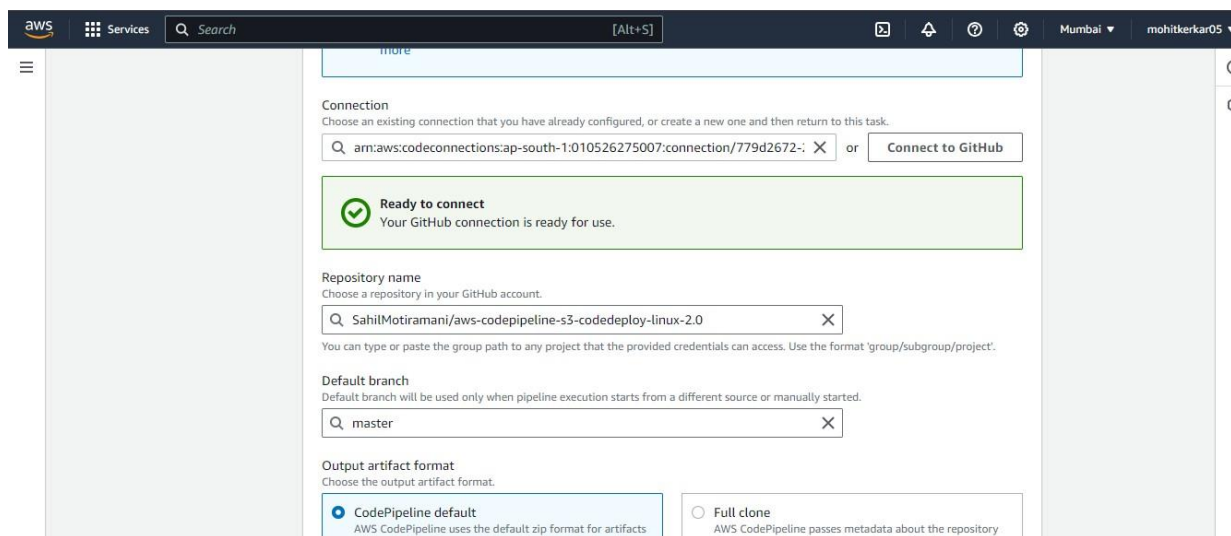
CloudShell Feedback Privacy Terms Cookie preferences

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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.

The screenshot shows the AWS CodePipeline console interface. On the left, a sidebar indicates 'Step 5' and 'Review'. The main area is titled 'Deploy provider' with the instruction: 'Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.' The 'Deploy provider' dropdown is set to 'AWS Elastic Beanstalk'. The 'Region' dropdown is set to 'Asia Pacific (Mumbai)'. Under 'Input artifacts', there is a text input field and a note 'No more than 100 characters'. The 'Application name' section has a search box containing 'sahilen'. The 'Environment name' section has a search box containing 'Sahilen-env'. At the bottom, there is an unchecked checkbox labeled 'Configure automatic rollback on stage failure'.

7.The pipeline will be created.

The screenshot shows the AWS CodePipeline console after the pipeline 'Sahilm' has been created. A green success banner at the top reads: 'Success Congratulations! The pipeline Sahilm has been created.' Below this, the breadcrumb navigation is 'Developer Tools > CodePipeline > Pipelines > Sahilm'. The pipeline name 'Sahilm' is displayed with buttons for 'Notify', 'Edit', 'Stop execution', 'Clone pipeline', and 'Release change'. The 'Pipeline type' is 'V2' and the 'Execution mode' is 'QUEUED'. A 'Source' step is shown as 'Succeeded' with a green checkmark. The 'Pipeline execution ID' is 'e11df979-cc02-4d28-a944-4c57a54c6722'. A details box for the 'Source' step shows 'GitHub (Version 2)' as the provider, 'Succeeded - 1 minute ago' as the status, and '8fd5da54' as the commit ID. A 'View details' button is present. At the bottom, a log entry shows '8fd5da54 Source: Update README.md'. On the left, a sidebar shows the 'CodePipeline' section with links to 'Getting started', 'Pipelines', 'Pipeline', 'History', 'Settings', and 'Settings'.

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.

