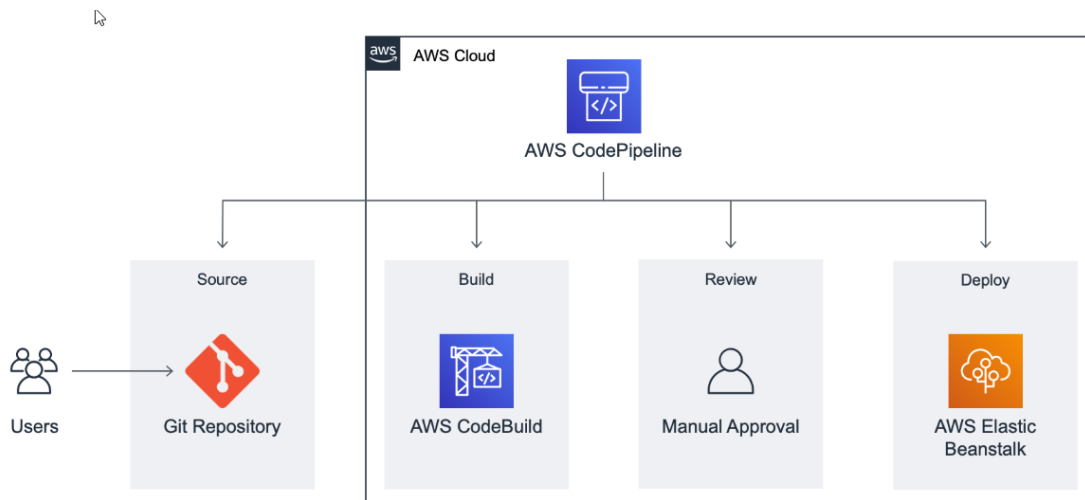


Create a Continuous Delivery Pipeline

I will create a continuous delivery pipeline for a simple web application. You will first use a version control system to store your source code. Then, you will learn how to create a continuous delivery pipeline that will automatically deploy your web application whenever your source code is updated.



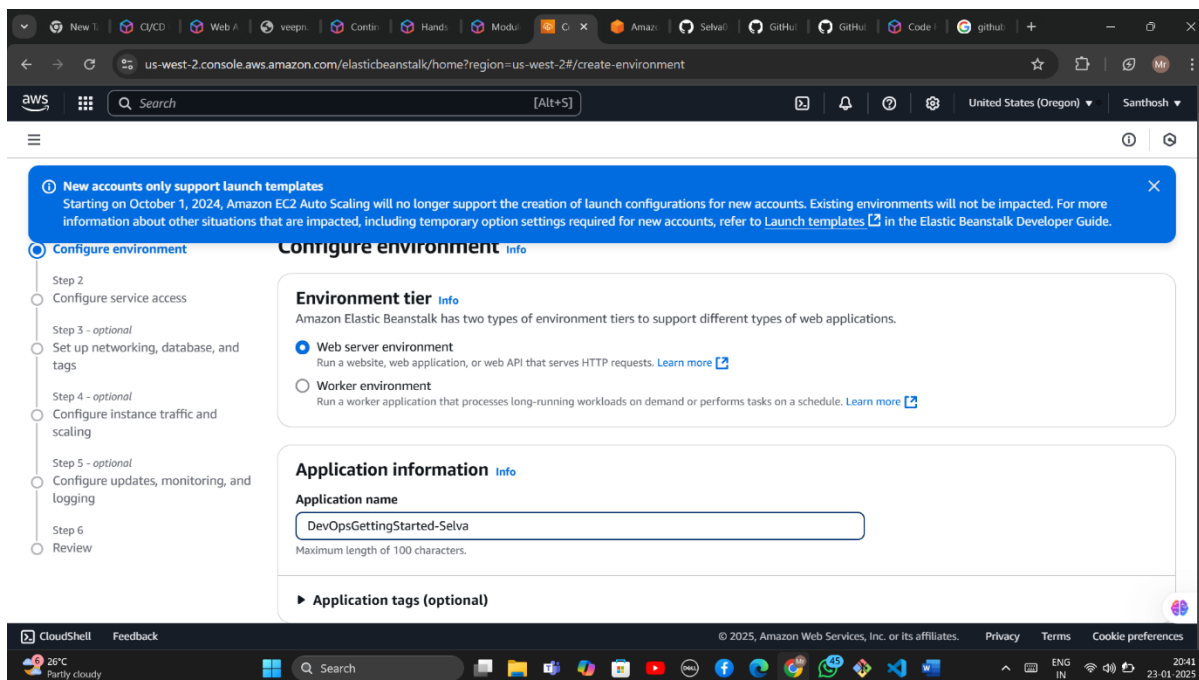
STEP 1- create the repo implement the code

STEP 2-Deploy Web App

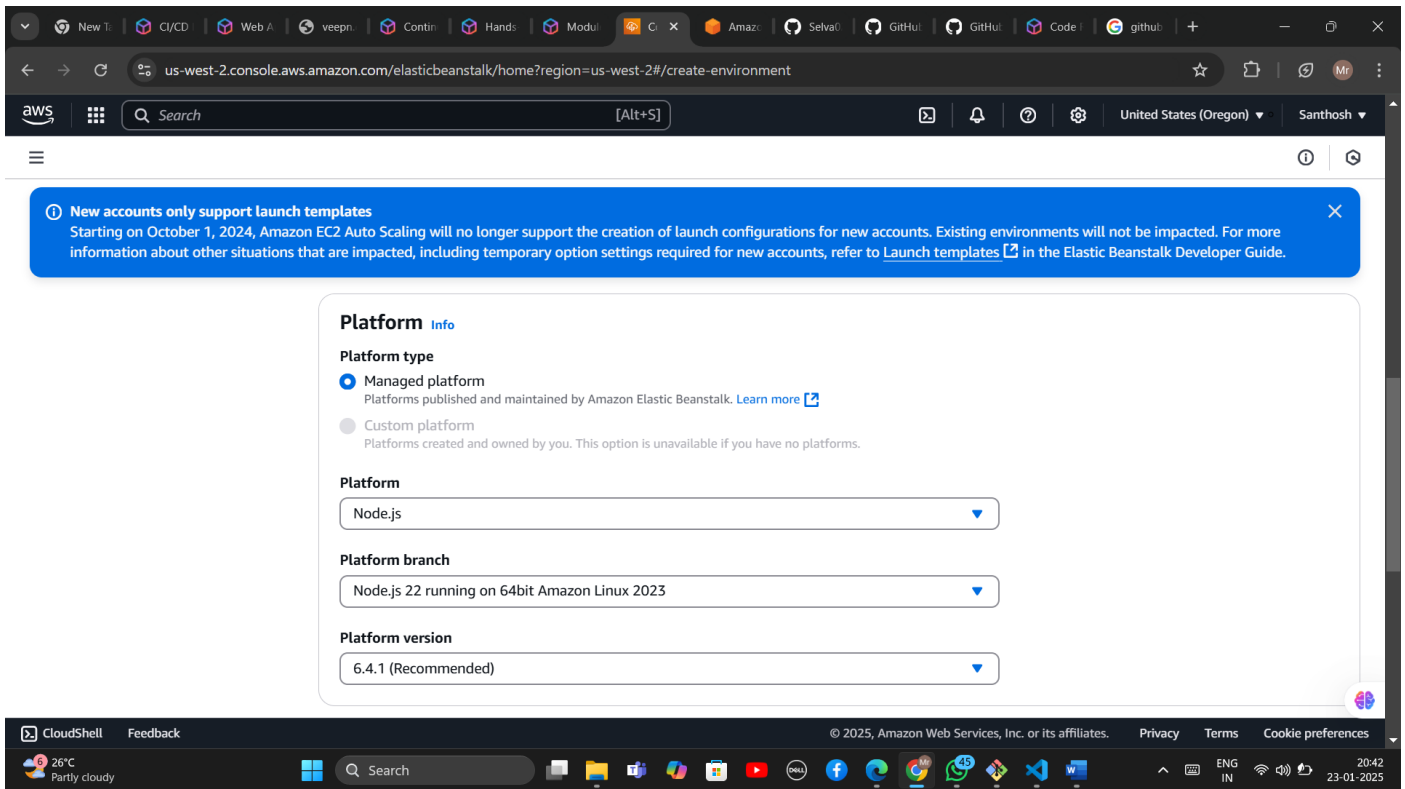
In this step , I will create and deploy a web application using AWS Elastic Beanstalk

Just follow the below screenshots

Go aws elastic beanstalk and create and follow this steps



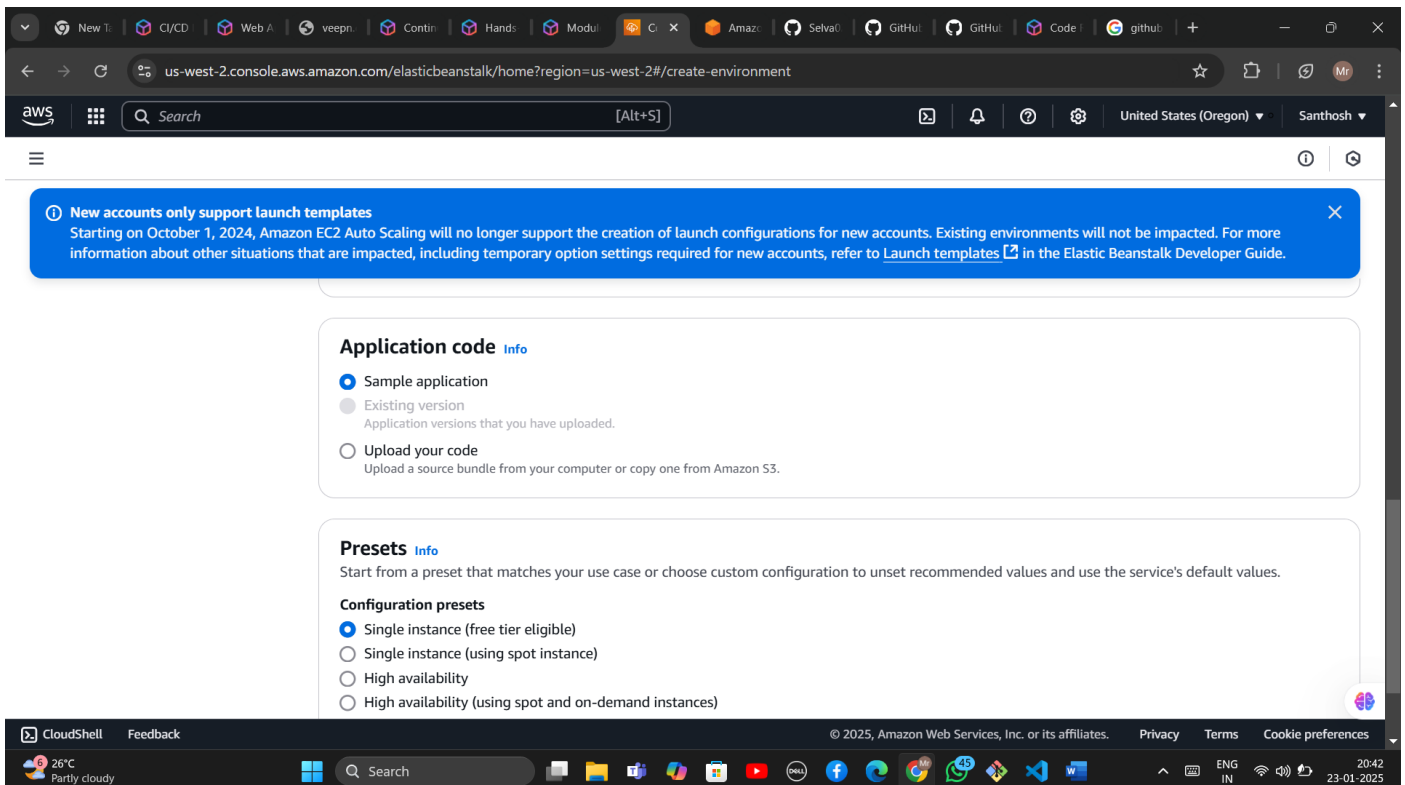
In the Platform dropdown menu, under the Platform heading, select Node.js . Platform branch and Platform version will automatically populate with default selections

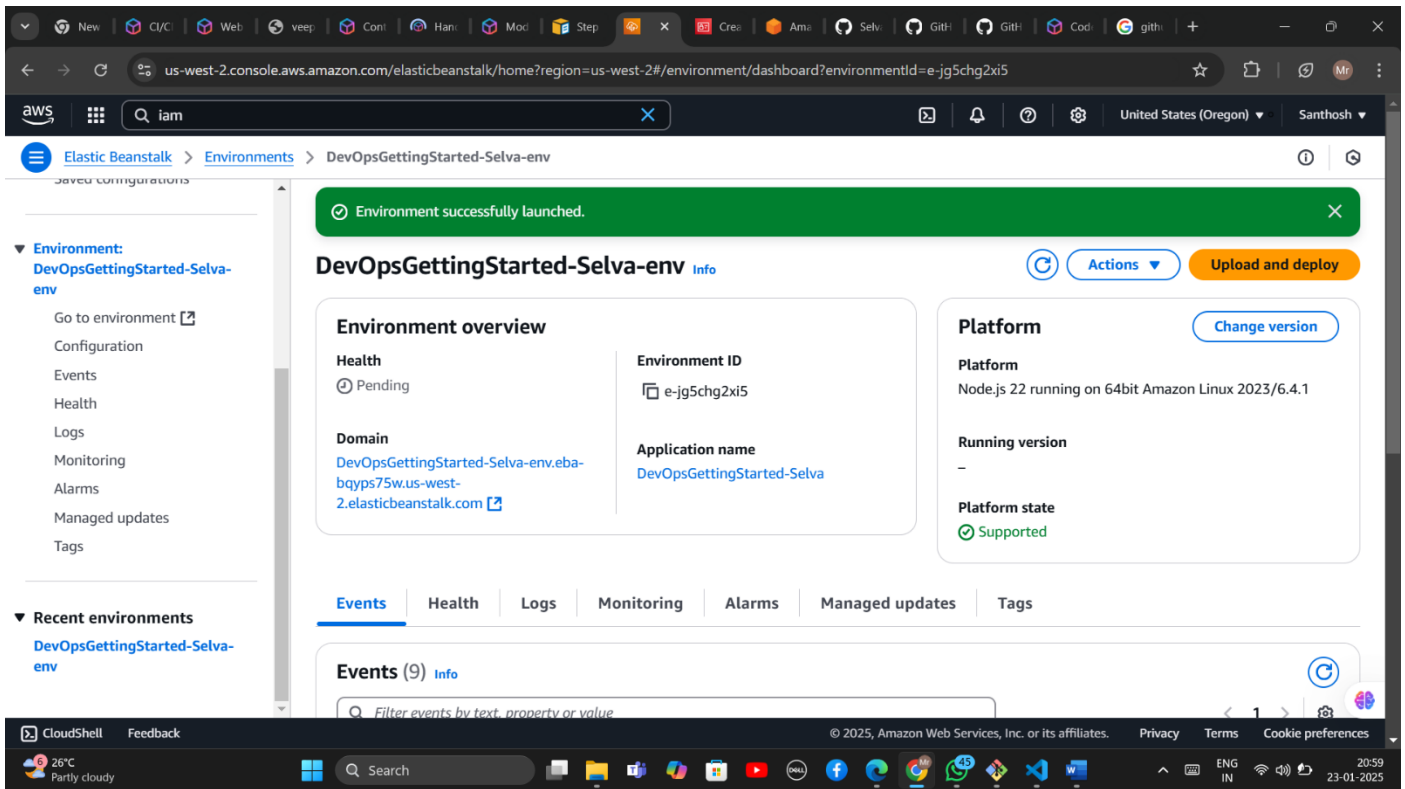


confirm that the radio button next to Sample application under the Application code heading is selected.

1. Confirm that the radio button next to Single instance (free tier eligible) under the Presets heading is selected.
2. Select Next.

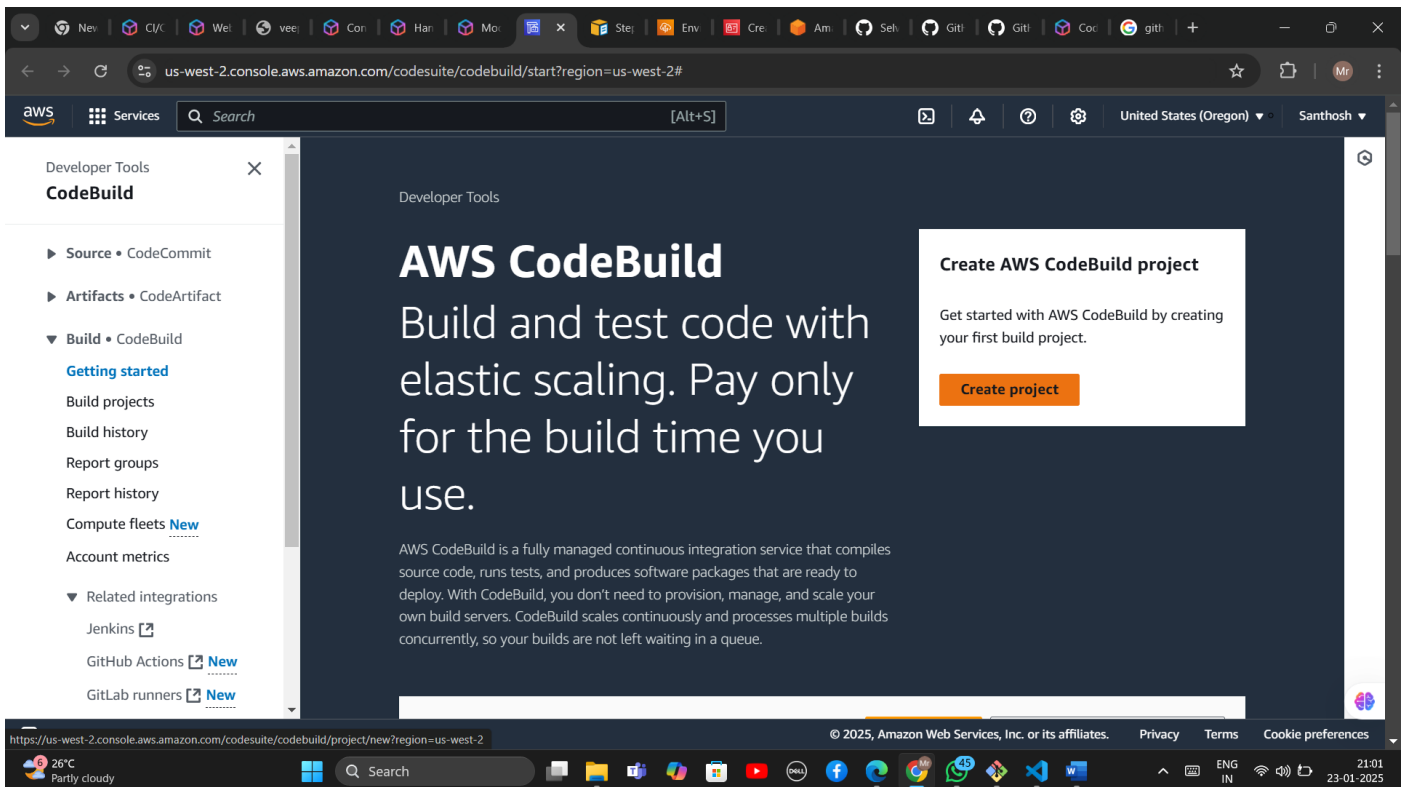
On the Configure service access screen, choose Use an existing service role for Service Role or you need to IAM role

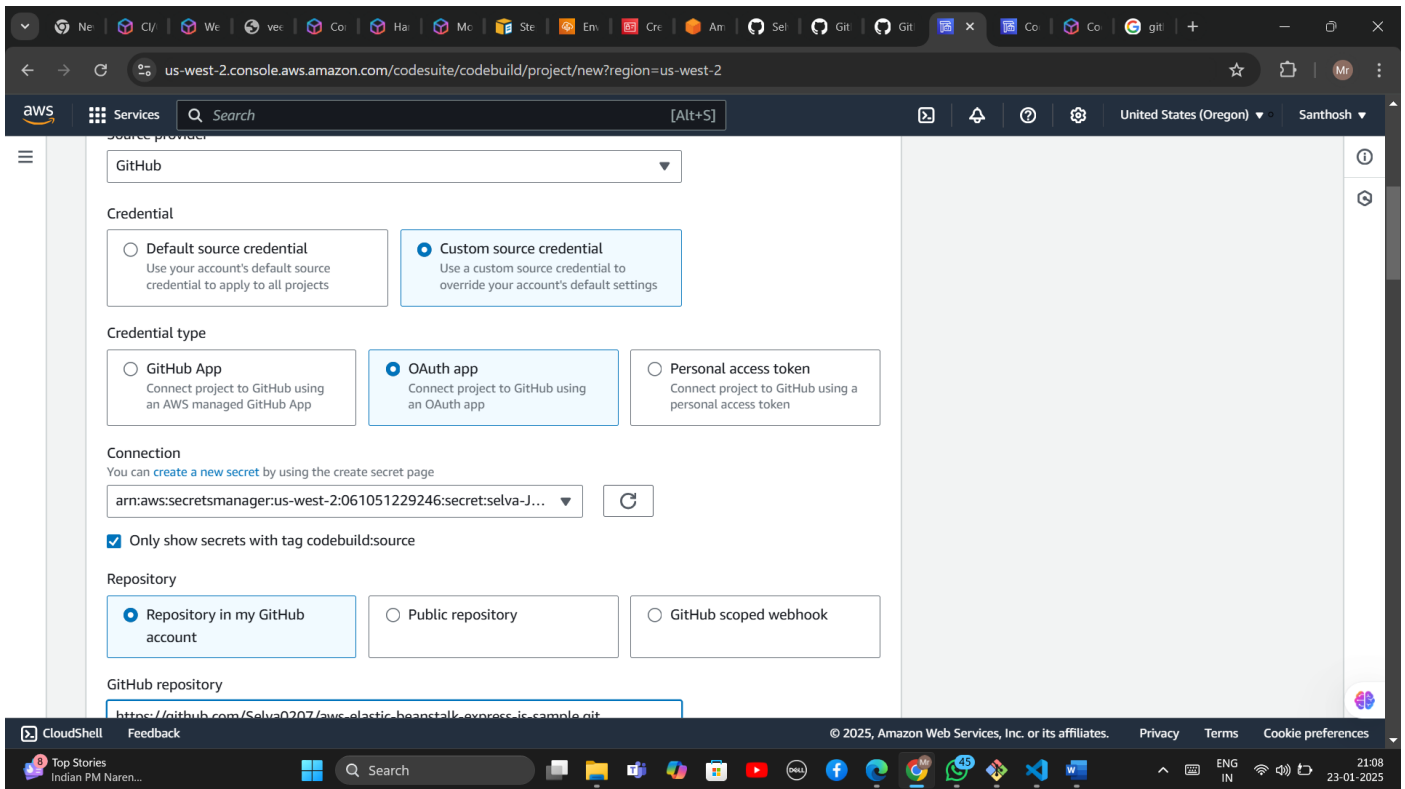




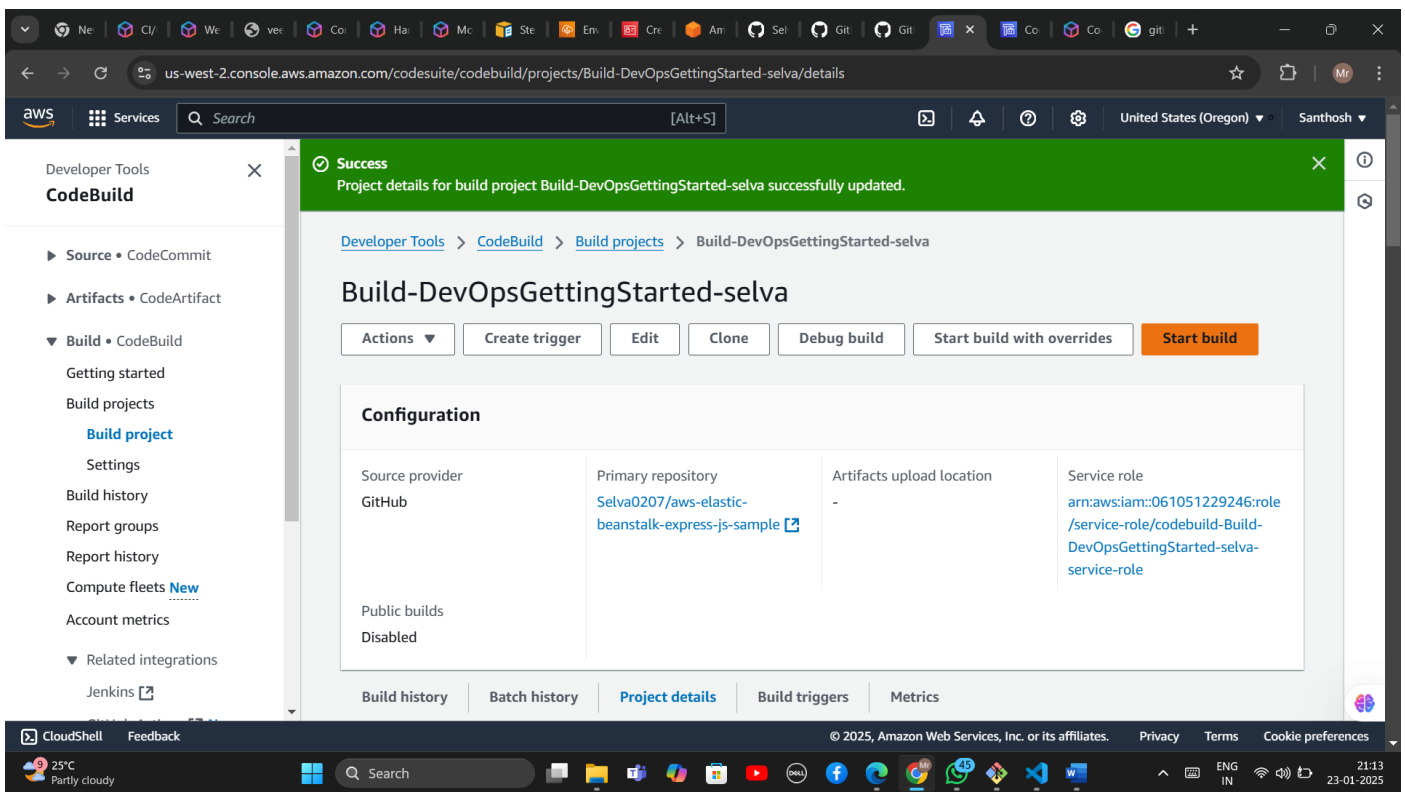
STEP -3 Create Build Project

I will configure and execute the application build process using AWS CodeBuild





CLICK START BUILD



STEP -4 Create Delivery Pipeline

I will use AWS CodePipeline to set up a continuous delivery pipeline with source, build, and deploy stages

Developer Tools

CodePipeline

Pipelines

Create new pipeline

Step 1

Choose creation option

Step 2

Choose pipeline settings

Step 3

Add source stage

Step 4

Add build stage

Step 5

Add test stage

Step 6

Add deploy stage

Step 7

Review

Choose pipeline settings

Info

Step 2 of 7

Pipeline settings

Pipeline name

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

Pipeline-DevOpsGettingStarted-SELVA

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)

CloudShell

Feedback

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ENG

IN

21:18

23-01-2025

Add source stage

Step 4

Add build stage

Step 5

Add test stage

Step 6

Add deploy stage

Step 7

Review

Source provider

This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

GitHub (via OAuth app)

Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.

Connected

You have successfully configured the action with the provider.

The GitHub (via OAuth app) action is not recommended

The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (via GitHub App) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. [Learn more](#)

Repository

Selva0207/aws-elastic-beanstalk-express-js-sample

Branch

main

CloudShell

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us-west-2.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-west-2

aws Services Search [Alt+S]

United States (Oregon) Santhosh

Step 2

Choose pipeline settings

Step 3

Add source stage

Step 4

Add build stage

Step 5

Add test stage

Step 6

Add deployment stage

Step 7

Review

Build - optional

Build provider

Choose the tool you want to use to run build commands and specify artifacts for your build action.

Commands

Other build providers

AWS CodeBuild

Project name

Choose a build project that you have already created in the AWS CodeBuild console. Or create a build project in the AWS CodeBuild console and then return to this task.

Q

Create project

Environment variables - optional

Choose the key, value, and type for your CodeBuild environment variables. In the value field, you can reference variables generated by CodePipeline. [Learn more](#)

Add environment variable

Build type

Single build

Triggers a single build.

Batch build

Triggers multiple builds as a single execution.

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us-west-2.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-west-2

aws Services Search [Alt+S]

United States (Oregon) Santhosh

Step 2

Choose pipeline settings

Step 3

Add source stage

Step 4

Add build stage

Step 5

Add test stage

Step 6

Add deployment stage

Step 7

Review

Deploy - optional

Deploy provider

Choose how you want to deploy your application or content. Choose the provider, and then provide the configuration details for that provider.

AWS Elastic Beanstalk

Region

US West (Oregon)

Input artifacts

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

BuildArtifact

Defined by: Build

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.

Q DevOpsGettingStarted-Selva

Environment name

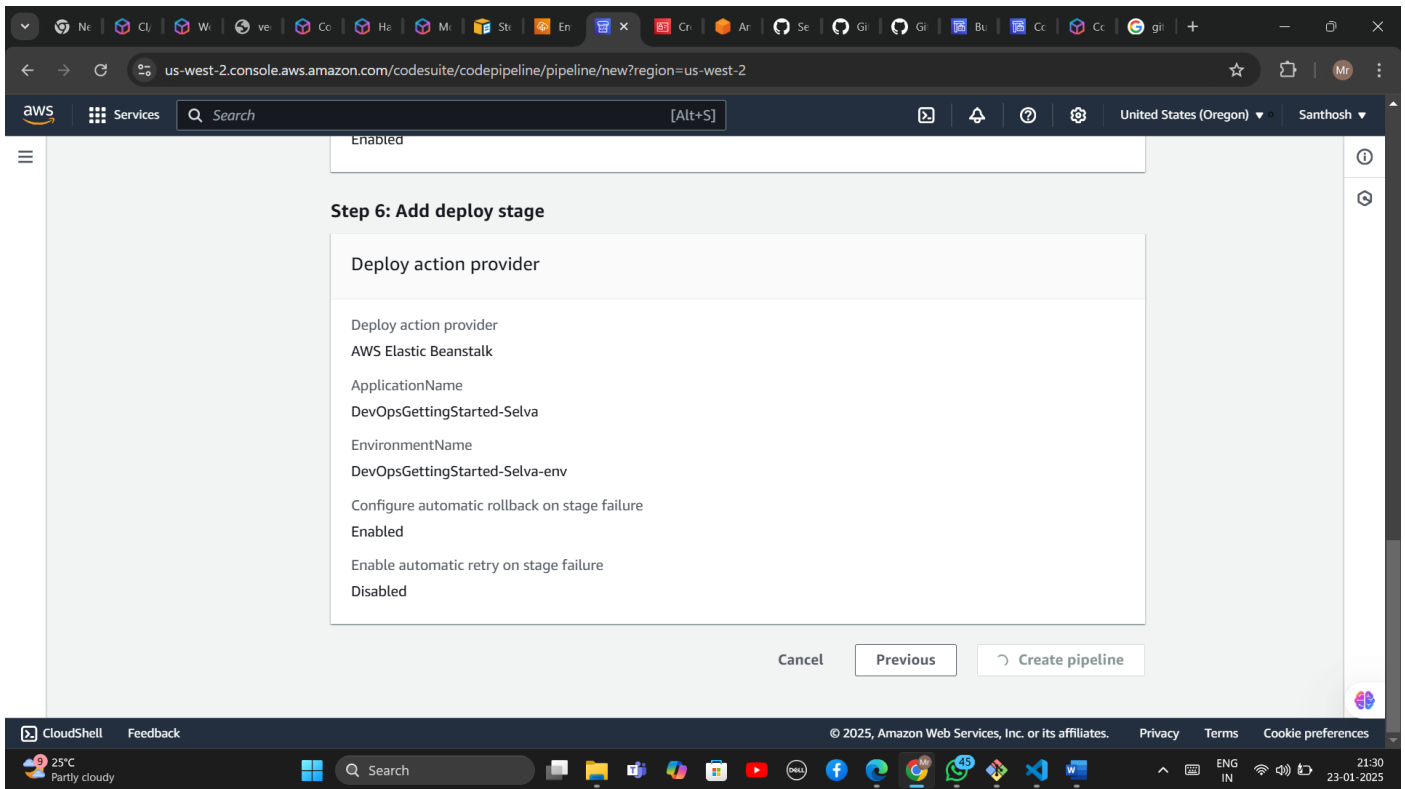
Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic

CloudShell Feedback

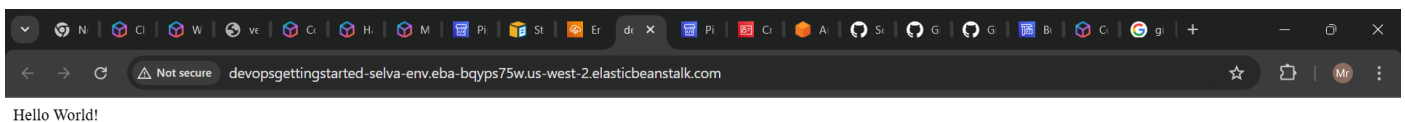
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Now you can copy the url in elastic beanstalk and run



Finalize Pipeline and Test

you will add a review stage to your countinuous delivery pipeline using AWS CodePipeline