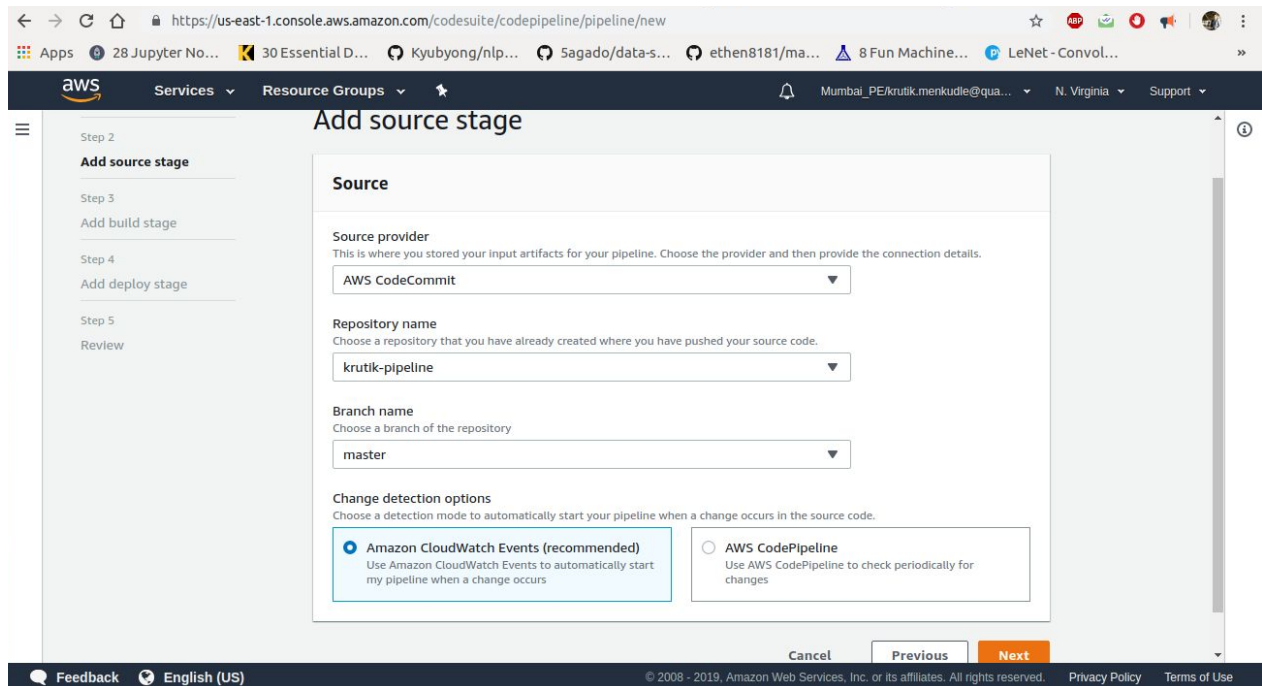


Steps for pipeline

1. Navigate to **CodePipeline** console in dashboard
2. In pipeline, Create new Pipeline and assign a name
3. In **Service Role**, select Existing Service Role as codebuild-lambda-pipeline-build-service-role
4. In **Advanced Settings** select default or custom location for the artifacts storage and leave encryption key as default

The screenshot shows the AWS CodePipeline console interface for creating a new pipeline named 'krutik-pipeline'. The pipeline name is entered in a text field with a character count. Below, the 'Service role' section offers two options: 'New service role' and 'Existing service role', with the latter selected and a dropdown menu showing 'codebuild-lambda-pipeline-build-service-role'. The 'Advanced settings' section is expanded, showing 'Artifact store' with 'Default location' selected and 'Encryption key' with 'Default AWS Managed Key' selected. The footer includes 'Feedback', 'English (US)', and copyright information.

5. In **Source Stage** add **Source Provider** as AWS CodeCommit and select the repository name and branch where cft file and lambda file are being commit
6. In **Change Detection** options select Amazon CloudWatch to detect changes in Source
7. Click Next to add next Stage



8. In **Build Stage** select Build Provider as AWS CodeBuild.
9. Create project for CodeBuild
10. In CodeBuild, assign project name and tags
11. In **Environment Images**, select Managed Image and choose OS as ubuntu.
12. Select **Runtime** as standard and image as aws/codebuild/standard2.0
13. In **Service Role** select existing service role as codebuild-lambda-pipeline-build-service-role
14. Now in **buildspec section**, Select insert build command and click on Switch to editor and insert the buildspec code as given in buildspec.yaml
15. Now click on continue to codepipeline
16. Click on Next to Add the Build stage for Testing

https://us-east-1.console.aws.amazon.com/codesuite/codebuild/project/new?preset=codepipeline®ion=us-east-1

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Developer Tools **CodeBuild**

- Source • CodeCommit
- Build • CodeBuild
 - Getting started
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- Deploy • CodeDeploy
- Pipeline • CodePipeline

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Project name
krutik-pipeline
A project name must be 2 to 255 characters. It can include the letters A-Z and a-z, the numbers 0-9, and the special characters - and _.

Description - optional

Additional configuration
tags

Environment

Environment image

☒ **Managed Image**
Use an image managed by AWS CodeBuild

☐ **Custom Image**
Specify a Docker image

Operating system
Ubuntu

The programming language runtimes are now included in the standard image of Ubuntu 18.04, which is recommended for new CodeBuild projects created in the console. See [Docker Images Provided by CodeBuild](#) for details.

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Runtime(s)
Standard

Image
aws/codebuild/standard:2.0

Image version
Always use the latest image for this runtime version

Privileged
☐ Enable this flag if you want to build Docker images or want your builds to get elevated privileges

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
codebuild-lambda-pipeline-build-service-role

☐ Allow AWS CodeBuild to modify this service role so it can be used with this build project

Additional configuration
Timeout, certificate, VPC, compute type, environment variables

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Feedback

Buildspec

Build specifications

☐ Use a buildspec file
Store build commands in a YAML-formatted buildspec file

☒ Insert build commands
Store build commands as build project configuration

Build commands

```
1 version: 0.2
2
3 phases:
4   install:
5     runtime-versions:
6       python: 3.7
7     commands:
8       - pip3 install awscli # Installing AWS CLI for validating template
9   build:
10    commands:
11      - aws cloudformation validate-template --template-body file://CFT.yaml # Validate CFT
12      - python -m py_compile lambda_handler.py # Python Syntax Validation
13      - zip lambda_handler.zip lambda_handler.py # Create Zip for S3 upload
14      - aws s3 cp lambda_handler.zip s3://krutik-pipeline/lambda_handler.zip # Zip should t
15  artifacts:
16    files:
17      - "**/*.*"
```

Switch to single line

Logs

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https://us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new

aws Services Resource Groups

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Step 1 Choose pipeline settings

Step 2 Add source stage

Step 3 Add build stage

Step 4 Add deploy stage

Step 5 Review

Add build stage

Build - optional

Build provider
This is the tool of your build project. Provide build artifact details like operating system, build spec file, and output file names.

AWS CodeBuild

Region
US East - (N. Virginia)

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.

krutik-pipeline or Create project

Successfully created krutik-pipeline in CodeBuild.

Cancel Previous Skip build stage Next

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17. Now in **Deploy Stage** Select Deploy Provider as AWS CloudFormation.

18. Select **Action Mode** as “Create or Update Stack”

19. Give a **Stack Name** (do not select an existing one)

20. In Template give your template path as “BuildArtifact::cft.yaml”
21. Select Role as codebuild-lambda-pipeline-build-service-role
22. Provide Output file name as DeployArtifact
23. Now click on Next and Review and Create the pipeline
24. Once created, the pipeline will auto execute and the stages will be executed and deployed.

The screenshot shows the AWS CodePipeline console interface for creating a new pipeline. The browser address bar indicates the URL is <https://us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new>. The AWS navigation bar at the top shows 'Services' and 'Resource Groups'. The main content area is titled 'Create or update a stack' and contains the following fields:

- Stack name:** A text input field containing 'krutik-stack'.
- Template:** A text input field containing 'BuildArtifact::cft.yaml'.
- Template configuration - optional:** A text input field for the configuration file name, with a placeholder '::<TemplateConfigurationFileName>'. Below it is a dropdown menu.
- Role name:** A dropdown menu with 'codebuild-lambda-pipeline-build-service-role' selected.
- Output file name:** A text input field containing 'OutputArtifact'.

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