

Create a CodeCommit Repository(AWS Console → CodeCommit → Repositories → Create repository)----No permission to create Repo

The screenshot shows the AWS CodePipeline interface. On the left, a sidebar titled 'Developer Tools' has 'CodePipeline' selected. Under 'Source', 'CodeCommit' and 'Repositories' are listed, with 'Repositories' highlighted by a red box. Other sections like 'Getting started', 'Approval rule templates', 'Artifacts', and 'Build' are also visible. The main area is titled 'Pipelines' and shows a table with columns: Name, Latest execution status, Latest source revisions, Latest execution started, and Most recent executions. A message at the bottom says 'No results' and 'There are no results to display.' A 'Create pipeline' button is located at the top right of the table.

Codebuild Project creation

The screenshot shows the 'Create build project' page in the AWS CodeBuild console. The URL in the browser is 'ap-south-1.console.aws.amazon.com/codesuite/codebuild/project/new?region=ap-south-1'. The top navigation bar includes the AWS logo, search bar, and developer tools menu. The main form is titled 'Create build project' and has a 'Project configuration' section. It includes fields for 'Project name' (set to 'CICD-2') and 'Project type' (with 'Default project' selected). There's also an 'Additional configuration' section with options for description, public build access, build badge, concurrent build limit, and tags. Below this is a 'Source' section with 'Source 1 - Primary' and 'Source provider' options. The entire page is set against a light gray background with blue highlights for selected items.

Files created in Github Repo

The screenshot shows a GitHub repository named "Codebuild" under the user "BalanNaganathan1". A pull request has been merged, indicated by a green checkmark next to the commit message "Update buildspec.yaml". The files listed are:

- app.js (Create app.js)
- appspec.yaml (Create appspec.yaml)
- buildspec.yaml (Update buildspec.yaml)
- install_dependencies.sh (Create install_dependencies.sh)
- package.json (Create package.json)
- start_server.sh (Create start_server.sh)

The screenshot shows the AWS CodeBuild console with the URL "ap-south-1.console.aws.amazon.com/codesuite/codebuild/project/new?region=ap-south-1". The "Source" section is configured as follows:

- Source 1 - Primary**:
 - Source provider: GitHub
 - Credential: Your account is successfully connected through PAT using CodeBuild managed token. Manage account credentials.
 - Use override credentials for this project only:
- Repository: Repository in my GitHub account (selected), Public repository, GitHub scoped webhook
 - URL: https://github.com/BalanNaganathan1/Codebuild.git
- Source version - optional info: Enter a pull request, branch, commit ID, tag, or reference and a commit ID.

Additional configuration: Git clone depth, Git submodules, Build status config

Screenshot of the AWS CodeBuild console showing the deletion of a build project.

Success
Project arn:aws:codebuild:ap-south-1:166647428737:project/CICD successfully deleted

Build projects

Name	Source provider	Repository	Latest build status	Description
CICD-2	GitHub	BalanNaganathan1/Codebuild	-	-

Screenshot of the AWS CodeBuild console showing the configuration and history of the CICD-2 build project.

Configuration

Source provider GitHub	Primary repository BalanNaganathan1/Codebuild	Artifacts upload location -	Service role arn:aws:iam::166647428737:role/service-role/codebuild-CICD-2-service-role
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Build history

Build run	Status	Build number	Source version	Submitter	Duration	Completed
No results There are no results to display.						

Build Succeeded

Screenshot of the AWS CodeBuild console showing the successful start of a new build.

Build started
You have successfully started the following build: CICD-2:691bd630-fbd7-4a46-8cdf-70d3fe2382df

CICD-2:691bd630-fbd7-4a46-8cdf-70d3fe2382df

Build status

Status Succeeded	Initiator root	Build ARN arn:aws:codebuild:ap-south-1:166647428737:build/CICD-2:691bd630-fbd7-4a46-8cdf-70d3fe2382df	Resolved source version 649df324d940e99ca7833ebe7d3152ba125ee74a fc2382df
Start time Feb 26, 2026 10:43 PM (UTC+5:30)	End time Feb 26, 2026 10:43 PM (UTC+5:30)	Build number 1	

Build logs

Showing the last 73 lines of the build log. [View entire log](#)

No previous logs

```
1 [Container] 2026/02/26 17:13:31.888873 Running on CodeBuild On-demand
2 [Container] 2026/02/26 17:13:31.888885 Waiting for agent ping
3 [Container] 2026/02/26 17:13:31.989719 Waiting for DOWNLOAD_SOURCE
4 [Container] 2026/02/26 17:13:35.438643 Phase is DOWNLOAD_SOURCE
5 [Container] 2026/02/26 17:13:35.440154 CODEBUILD_SRC_DIR=/codebuild/output/src4270544853/src/github.com/BalanNaganathan1/Codebuild
```

EC2 Created

The screenshot shows the AWS EC2 Instances page. At the top, there is a search bar and a status bar indicating 'Asia Pacific (Mumbai)'. Below the search bar, there are several buttons: 'Connect', 'Instance state ▾', and 'Actions ▾'. The main table has columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. One row is visible, showing 'Cbuild' as the name, 'i-09677ab5f729783b2' as the instance ID, 'Running' as the state, 't3.micro' as the type, '3/3 checks passed' as the status, and 'ap-south-1a' as the zone.

Code Deploy service installed in EC2

The screenshot shows an AWS CloudShell terminal window. The AWS logo is at the top left, followed by a search bar and a status bar with '[Alt+S]'. The terminal output shows the following command and its execution:

```
[ec2-user@ip-172-31-39-71 ~]$ sudo service codedeploy-agent start
Starting codedeploy-agent:[ec2sudo service codedeploy-agent status
The AWS CodeDeploy agent is running as PID 1551
[ec2-user@ip-172-31-39-71 ~]$ ]$
```

i-09677ab5f729783b2 (Cbuild)

Public IPs: 43.205.125.149 Private IPs: 172.31.39.71

IAM Role created and attached

The screenshot shows the AWS IAM Roles page. On the left, a sidebar menu includes 'Identity and Access Management (IAM)', 'Dashboard', and 'Access Management' (with sub-options: User groups, Users, Roles, Policies, Identity providers, Account settings, Root access management, and Temporary delegation requests). The main content area displays the 'codebuild-CICD-2-service-role' details. The 'Summary' section shows the creation date (February 26, 2026, 22:37 (UTC+05:30)), last activity (17 minutes ago), ARN (arn:aws:iam::166647428737:role/service-role/codebuild-CICD-2-service-role), and maximum session duration (1 hour). Below the summary are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Last Accessed', and 'Revoke sessions'. The 'Permissions' tab is selected, showing 'Permissions policies (1) Info' (with a link to 'Info'). It also includes buttons for 'Simulate', 'Remove', and 'Add permissions'. A 'Filter by Type' dropdown is present.

Unable to perform Code deploy since it's not accessible via Free plan account.

The screenshot shows the 'Create new pipeline' step 2: Pipeline settings. The left sidebar lists steps: Step 2 (Choose pipeline settings), Step 3 (Add source stage), Step 4 - optional (Add build stage), Step 5 - optional (Add test stage), Step 6 (Add deploy stage), and Step 7 (Review). The main form is titled 'Pipeline settings'. It includes fields for 'Pipeline name' (set to 'CICD'), 'Execution mode' (set to 'Queued'), and 'Service role'. Under 'Service role', there are two options: 'New service role' (selected, with a note: 'Create a service role in your account') and 'Existing service role' (with a note: 'Choose an existing service role from your account'). A 'Role name' field contains 'AWSCodePipelineServiceRole-ap-south-1-CICD'. A checkbox at the bottom allows AWS CodePipeline to create a service role.

aws | Search [Alt+S]

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 3 This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connect...
Add source stage GitHub (via OAuth app) ▾

Step 4 - optional Add build stage Connected

Step 5 - optional Add test stage

Step 6 Add deploy stage

Step 7 Review

Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to update GitHub to your pipeline.

You have successfully configured the action with the provider. X

ⓘ 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 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 resources. [Learn more ↗](#)

Repository
BalanNaganathan1/Codebuild X

Branch
main X
 Enable automatic retry on stage failure

Add build stage - *optional* [Info](#)

Step 4 of 7

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.

CICD-2

X

or

[Create project](#)

CICD-2

one defined in the build project, for this build only.

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

Batch build

Add deploy stage Info

Step 6 of 7

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 CodeDeploy

Region

Asia Pacific (Mumbai)

Input artifacts

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

BuildArtifact X

Defined by: Build
No more than 100 characters

✖ **SubscriptionRequiredException**

The AWS Access Key Id needs a subscription for the service

Configure automatic rollback on stage failure

Enable automatic retry on stage failure

Unable to perform this as its only works on Paid version.