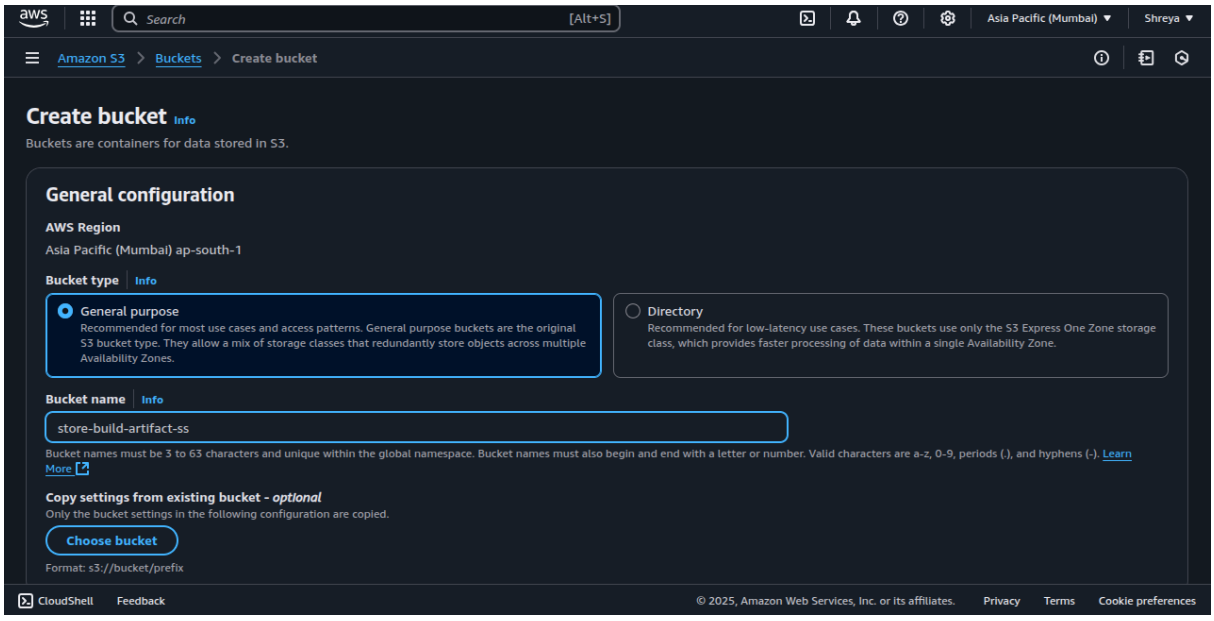
Academic Year: 2025-26
Semester: V
Class / Branch/ Div: TEIT C
Subject: ADL Lab
Name of Instructor:Prof.Vishal Badgujar

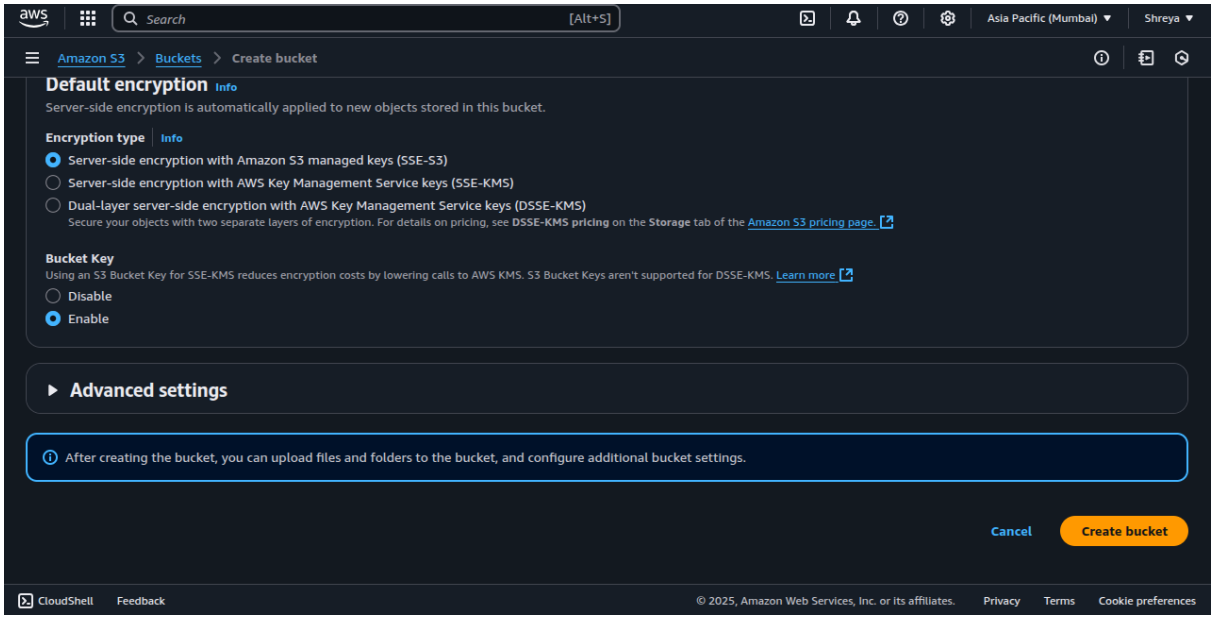
Name of Student:Shreya Sonawale
Student ID:23104134
Roll No. 43
Date of Submission:25/07/25

Experiment No: 2

Aim: To Build Your Application using AWS Code Build and Deploy on S3 / SEBS using AWS Code Pipeline, deploy Sample Application on EC2 instance using AWS Code Deploy

Code & Output:




Search
[Alt+S]
Asia Pacific (Mumbai)
Shreya
Amazon S3 > Buckets > Create bucket
Default encryption Info
Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption type Info
Server-side encryption with Amazon S3 managed keys (SSE-S3)
Server-side encryption with AWS Key Management Service keys (SSE-KMS)
Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon S3 pricing page.
Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more
Disable
Enable
Advanced settings
After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.
Cancel
Create bucket
CloudShell
Feedback
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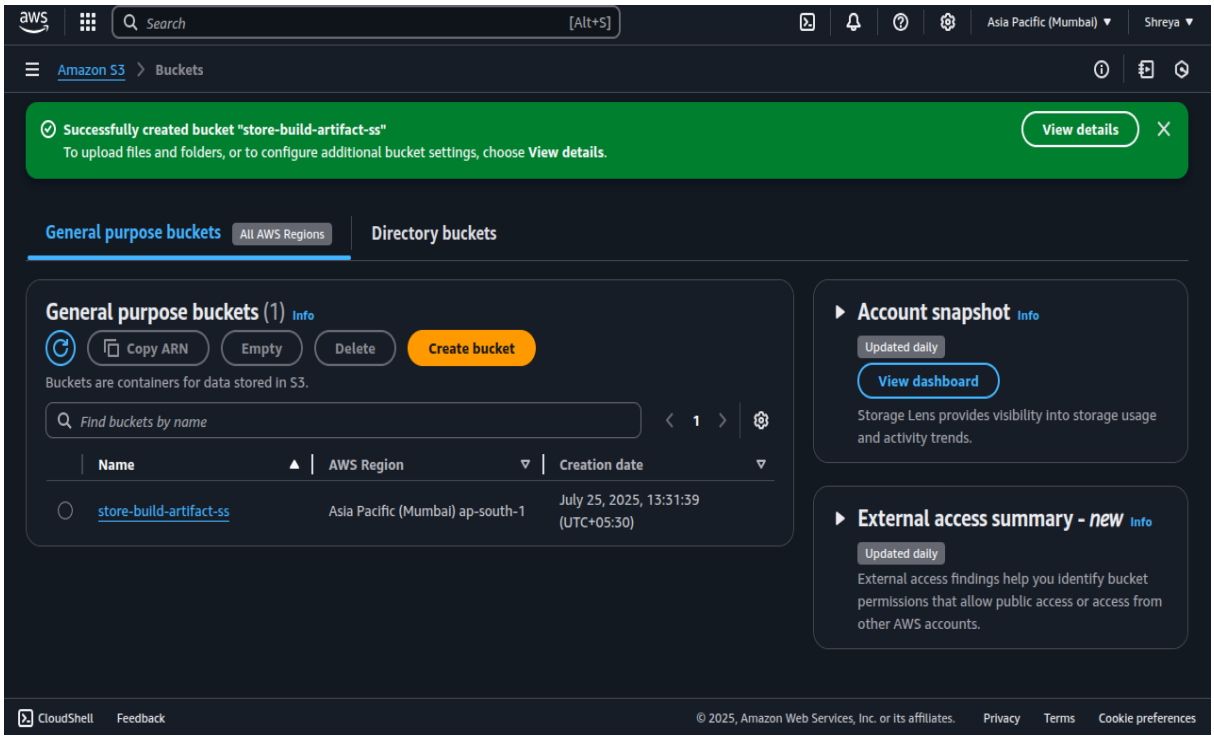
Search
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Asia Pacific (Mumbai)
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Amazon S3 > Buckets
Successfully created bucket "store-build-artifact-ss"
To upload files and folders, or to configure additional bucket settings, choose View details.
View details
General purpose buckets
All AWS Regions
Directory buckets
General purpose buckets (1) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3.
Find buckets by name
Name
AWS Region
Creation date
store-build-artifact-ss
Asia Pacific (Mumbai) ap-south-1
July 25, 2025, 13:31:39 (UTC+05:30)
Account snapshot Info
Updated daily
View dashboard
Storage Lens provides visibility into storage usage and activity trends.
External access summary - new Info
Updated daily
External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.
CloudShell
Feedback
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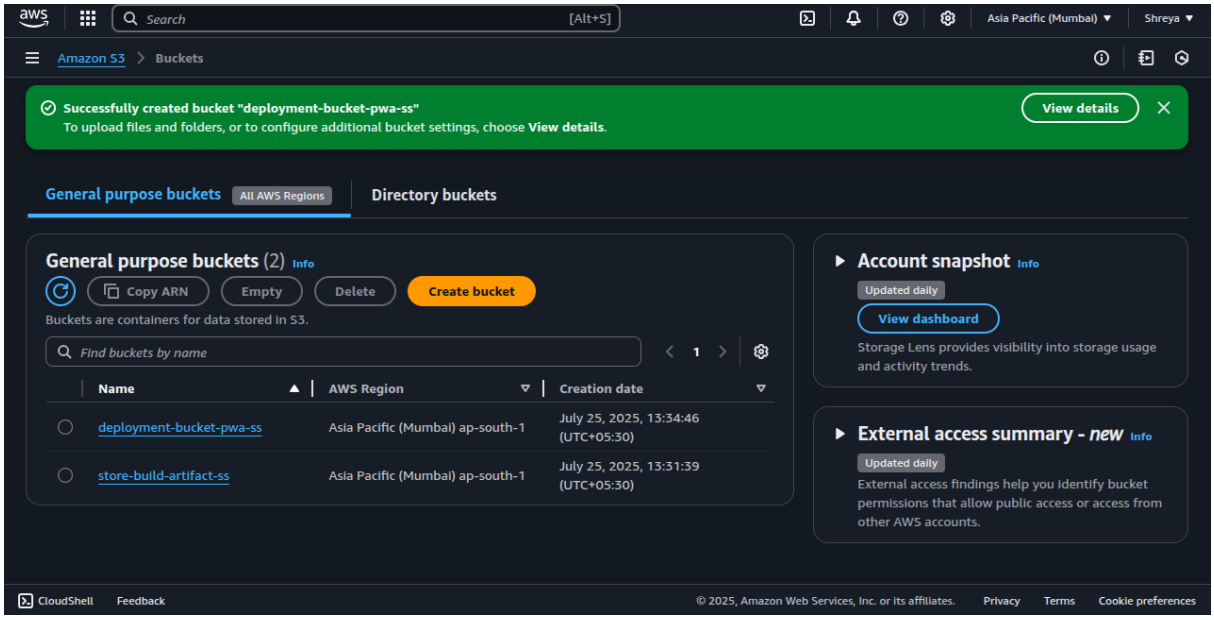
Search [Alt+S]
Asia Pacific (Mumbai)
Shreya
Amazon S3 > Buckets
Successfully created bucket "deployment-bucket-pwa-ss"
To upload files and folders, or to configure additional bucket settings, choose View details.
View details
General purpose buckets
All AWS Regions
Directory buckets
General purpose buckets (2) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3.
Find buckets by name
Name
AWS Region
Creation date
deployment-bucket-pwa-ss
Asia Pacific (Mumbai) ap-south-1
July 25, 2025, 13:34:46 (UTC+05:30)
store-build-artifact-ss
Asia Pacific (Mumbai) ap-south-1
July 25, 2025, 13:31:39 (UTC+05:30)
Account snapshot Info
Updated daily
View dashboard
Storage Lens provides visibility into storage usage and activity trends.
External access summary - new Info
Updated daily
External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.
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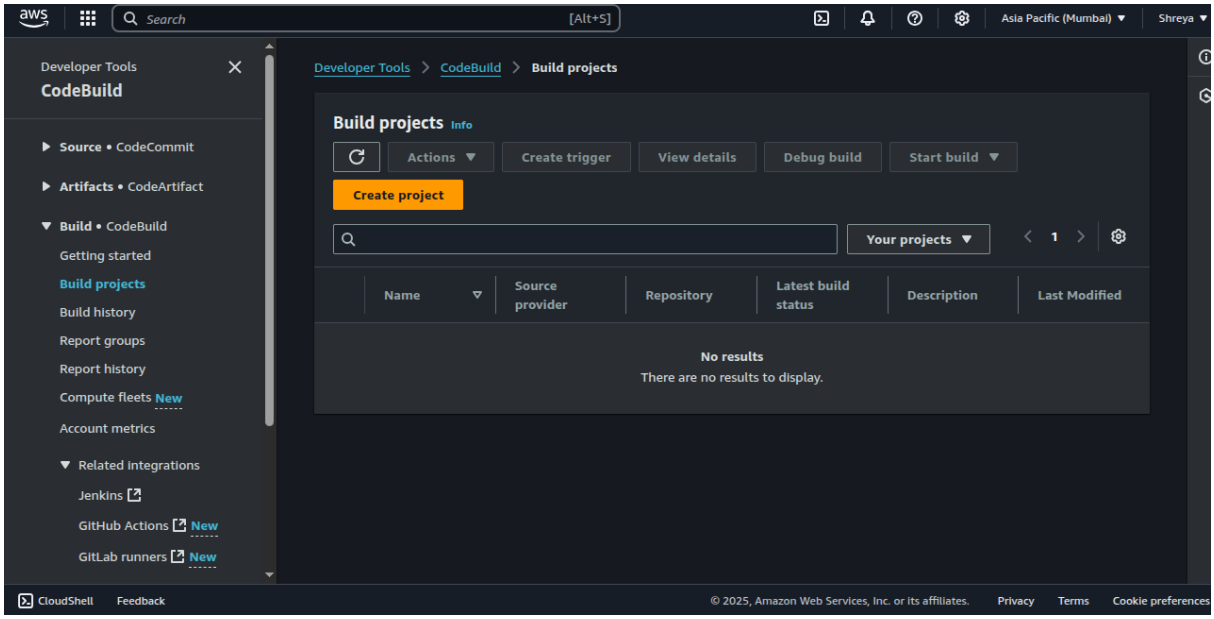
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Developer Tools
CodeBuild
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Getting started
Build projects
Build history
Report groups
Report history
Compute fleets New
Account metrics
Related integrations
Jenkins
GitHub Actions New
GitLab runners New
Developer Tools > CodeBuild > Build projects
Build projects Info
Actions
Create trigger
View details
Debug build
Start build
Create project
Your projects
Name
Source provider
Repository
Latest build status
Description
Last Modified
No results
There are no results to display.
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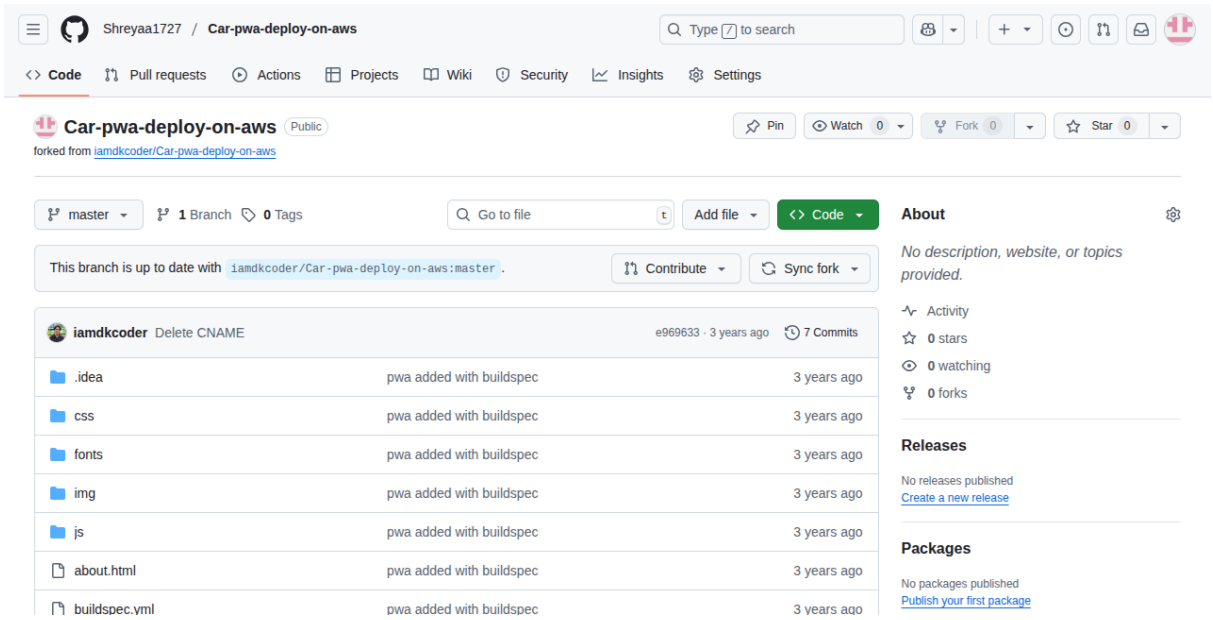
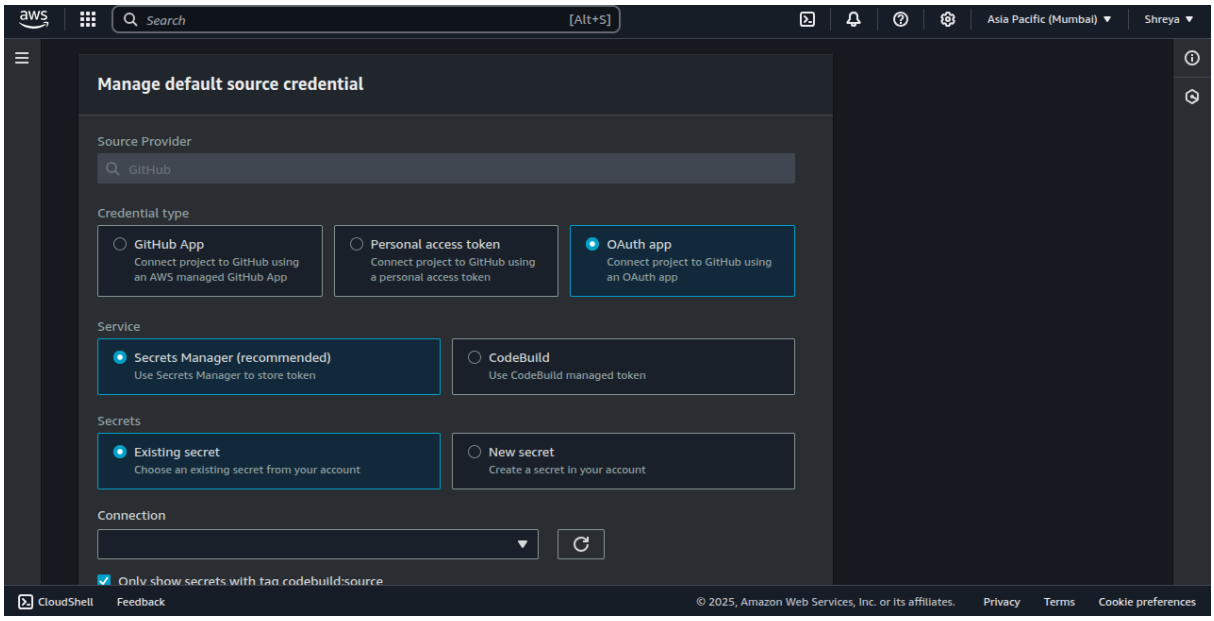

Shreyaa1727 / Car-pwa-deploy-on-aws
Type / to search
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Car-pwa-deploy-on-aws
Public
forked from iamdkcoder/Car-pwa-deploy-on-aws
Pin
Watch 0
Fork 0
Star 0
master
1 Branch
0 Tags
Go to file
Add file
Code
This branch is up to date with iamdkcoder/Car-pwa-deploy-on-aws:master.
Contribute
Sync fork
iamdkcoder Delete CNAME
e969633 · 3 years ago
7 Commits
.idea pwa added with buildspec 3 years ago
css pwa added with buildspec 3 years ago
fonts pwa added with buildspec 3 years ago
img pwa added with buildspec 3 years ago
js pwa added with buildspec 3 years ago
about.html pwa added with buildspec 3 years ago
buildspec.yml pwa added with buildspec 3 years ago
About
No description, website, or topics provided.
Activity
0 stars
0 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package


aws
Search
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Asia Pacific (Mumbai)
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Manage default source credential
Source Provider
GitHub
Credential type
GitHub App
Connect project to GitHub using an AWS managed GitHub App
Personal access token
Connect project to GitHub using a personal access token
OAuth app
Connect project to GitHub using an OAuth app
Service
Secrets Manager (recommended)
Use Secrets Manager to store token
CodeBuild
Use CodeBuild managed token
Secrets
Existing secret
Choose an existing secret from your account
New secret
Create a secret in your account
Connection
Only show secrets with tag codebuild:source
CloudShell
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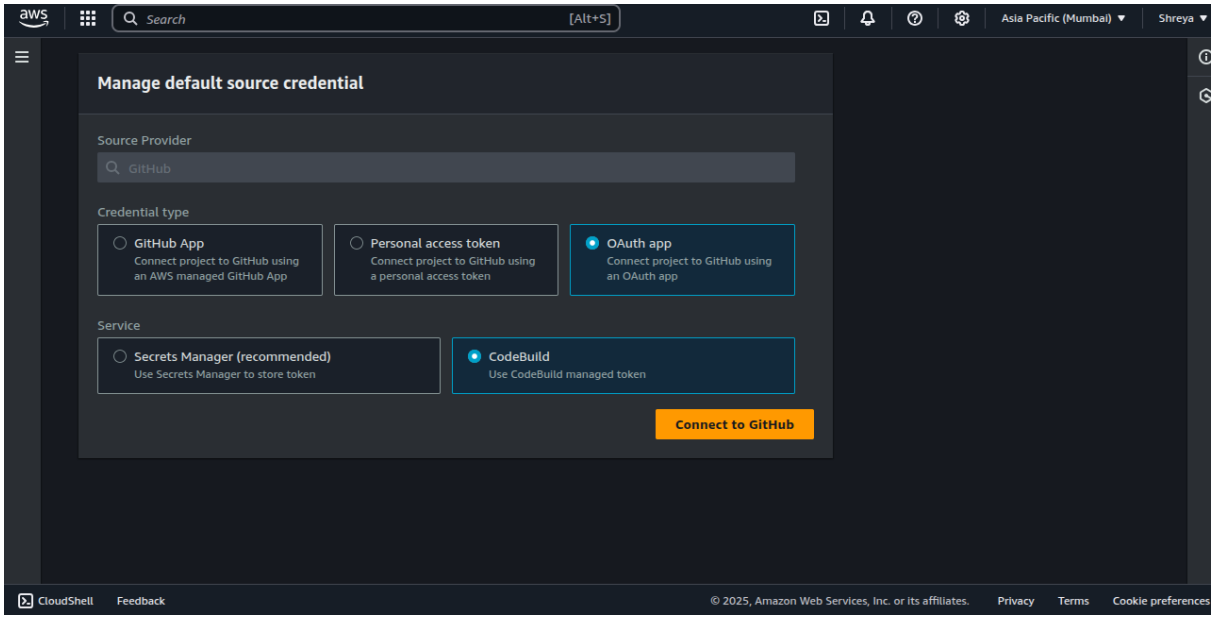
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Manage default source credential
Source Provider
GitHub
Credential type
GitHub App
Connect project to GitHub using an AWS managed GitHub App
Personal access token
Connect project to GitHub using a personal access token
OAuth app
Connect project to GitHub using an OAuth app
Service
Secrets Manager (recommended)
Use Secrets Manager to store token
CodeBuild
Use CodeBuild managed token
Connect to GitHub
CloudShell
Feedback
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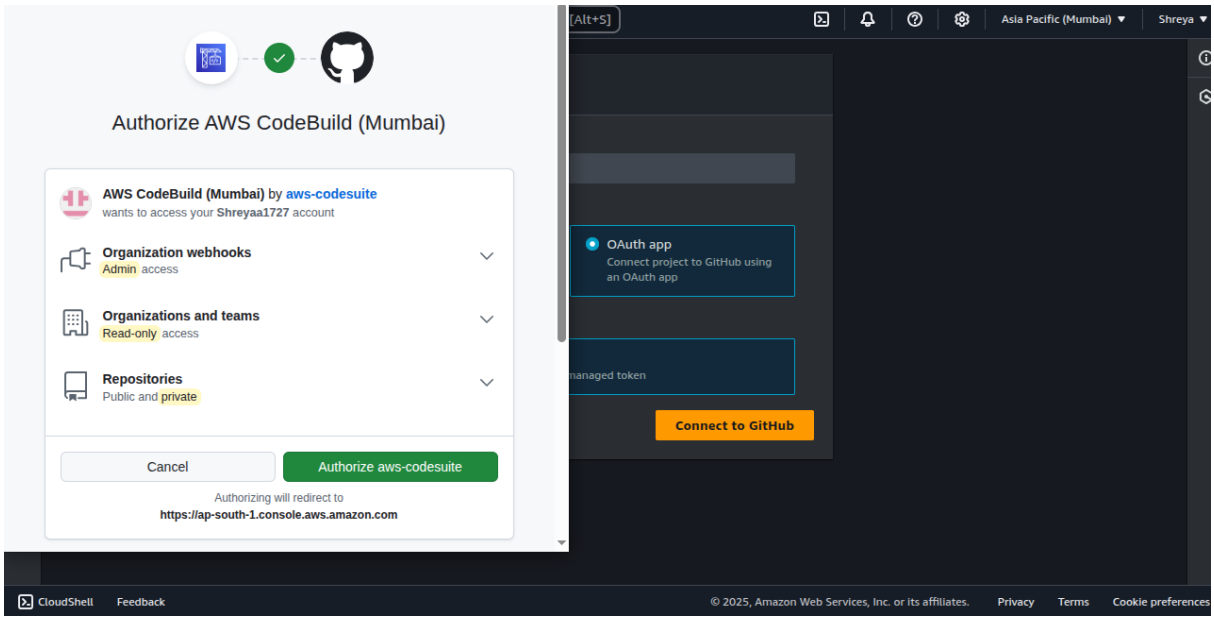
Authorize AWS CodeBuild (Mumbai)
AWS CodeBuild (Mumbai) by aws-codesuite
wants to access your Shreyaa1727 account
Organization webhooks
Admin access
Organizations and teams
Read-only access
Repositories
Public and private
Cancel
Authorize aws-codesuite
Authorizing will redirect to
https://ap-south-1.console.aws.amazon.com
OAuth app
Connect project to GitHub using an OAuth app
Connect to GitHub
CloudShell
Feedback
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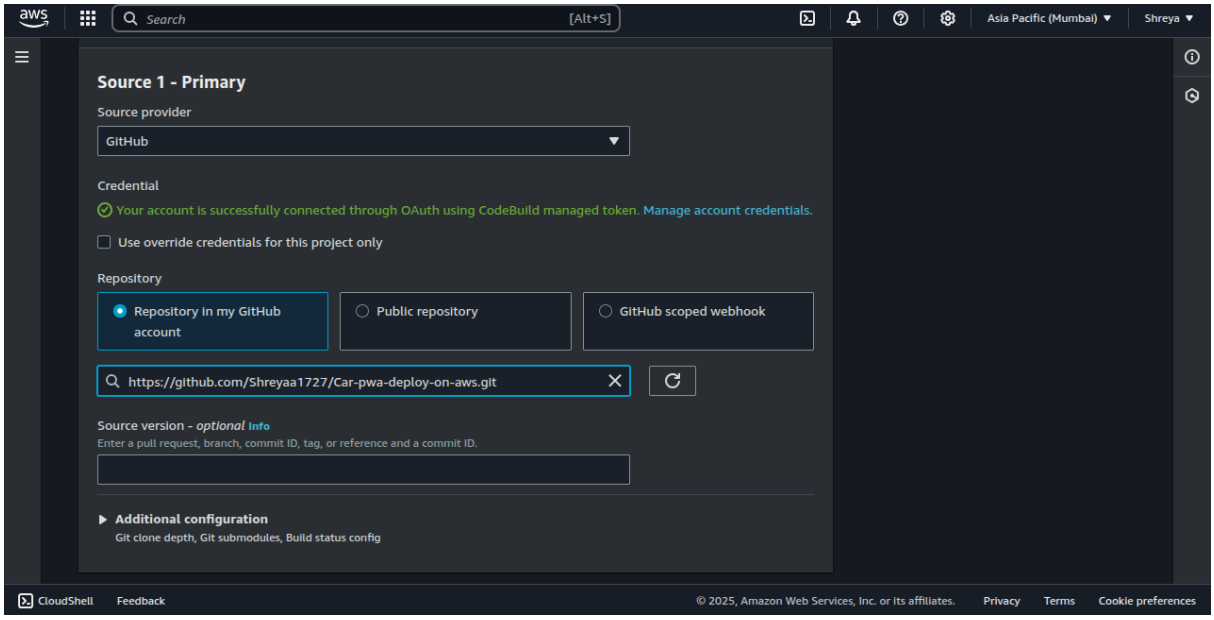
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Source 1 - Primary
Source provider
GitHub
Credential
Your account is successfully connected through OAuth using CodeBuild managed token. Manage account credentials.
Use override credentials for this project only
Repository
Repository in my GitHub account
Public repository
GitHub scoped webhook
https://github.com/Shreyaa1727/Car-pwa-deploy-on-aws.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
CloudShell
Feedback
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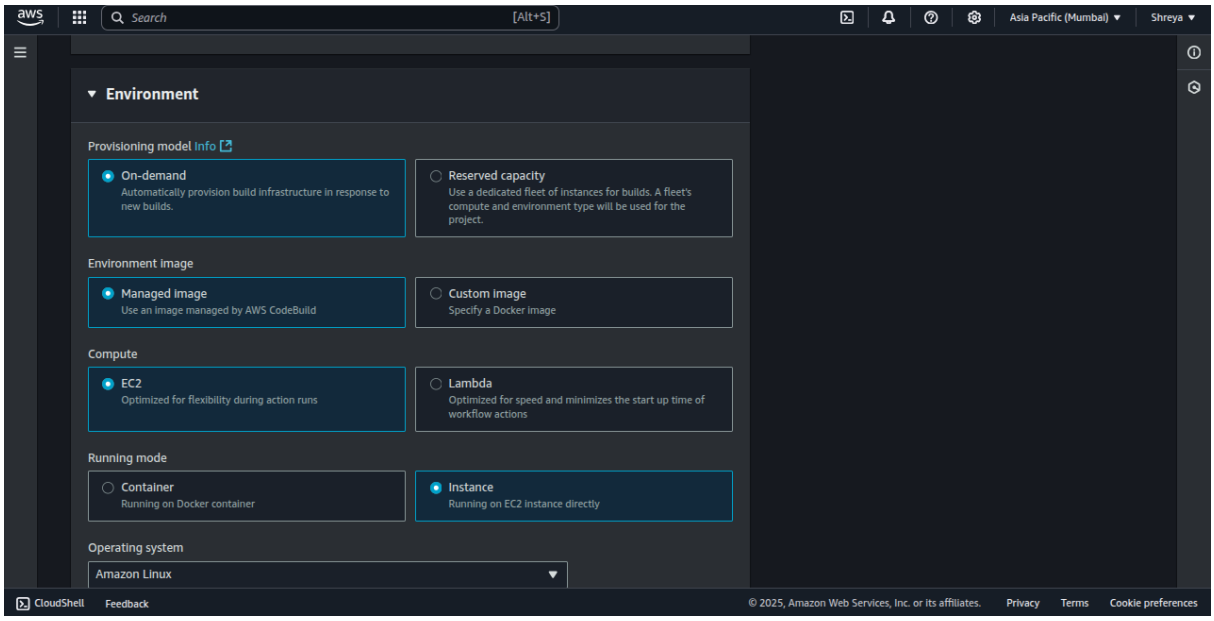
Search
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Asia Pacific (Mumbai)
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Environment
Provisioning model Info
On-demand
Automatically provision build infrastructure in response to new builds.
Reserved capacity
Use a dedicated fleet of instances for builds. A fleet's compute and environment type will be used for the project.
Environment image
Managed image
Use an image managed by AWS CodeBuild
Custom image
Specify a Docker image
Compute
EC2
Optimized for flexibility during action runs
Lambda
Optimized for speed and minimizes the start up time of workflow actions
Running mode
Container
Running on Docker container
Instance
Running on EC2 instance directly
Operating system
Amazon Linux
CloudShell
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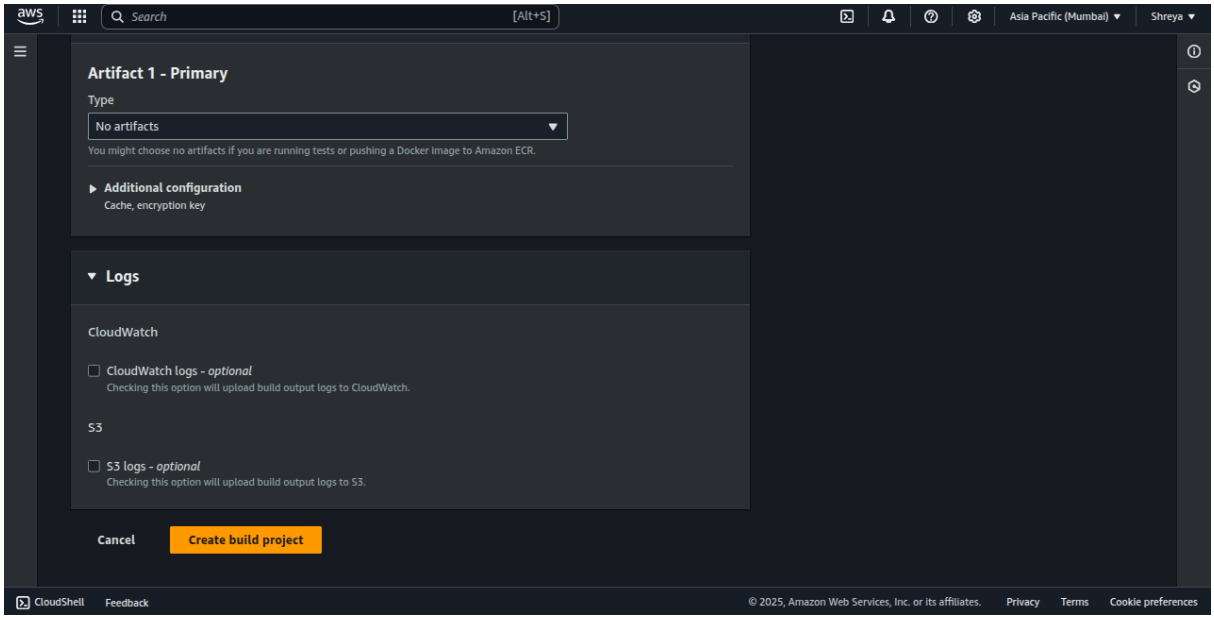
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Artifact 1 - Primary
Type
No artifacts
You might choose no artifacts if you are running tests or pushing a Docker image to Amazon ECR.
Additional configuration
Cache, encryption key
Logs
CloudWatch
CloudWatch logs - optional
Checking this option will upload build output logs to CloudWatch.
S3
S3 logs - optional
Checking this option will upload build output logs to S3.
Cancel
Create build project
CloudShell
Feedback
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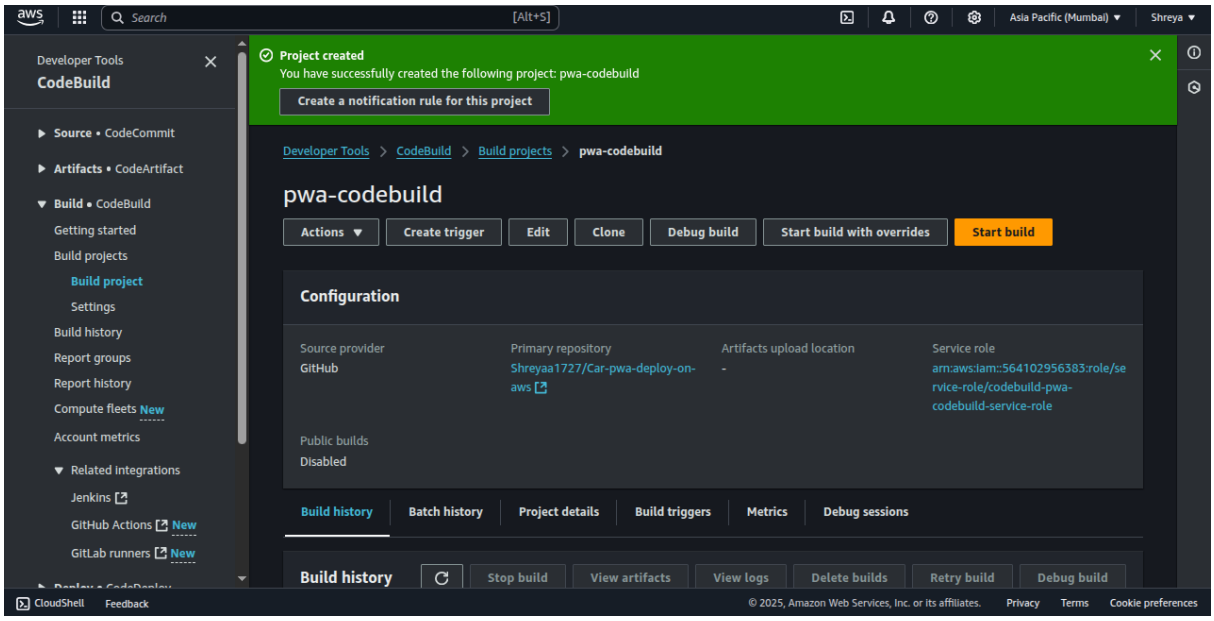
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Developer Tools
CodeBuild
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Getting started
Build projects
Build project
Settings
Build history
Report groups
Report history
Compute fleets New
Account metrics
Related integrations
Jenkins
GitHub Actions New
GitLab runners New
Project created
You have successfully created the following project: pwa-codebuild
Create a notification rule for this project
Developer Tools > CodeBuild > Build projects > pwa-codebuild
pwa-codebuild
Actions
Create trigger
Edit
Clone
Debug build
Start build with overrides
Start build
Configuration
Source provider
GitHub
Primary repository
Shreyaa1727/Car-pwa-deploy-on-aws
Artifacts upload location
-
Service role
arn:aws:iam::564102956383:role/service-role/codebuild-pwa-codebuild-service-role
Public builds
Disabled
Build history
Batch history
Project details
Build triggers
Metrics
Debug sessions
Build history
Stop build
View artifacts
View logs
Delete builds
Retry build
Debug build
CloudShell
Feedback
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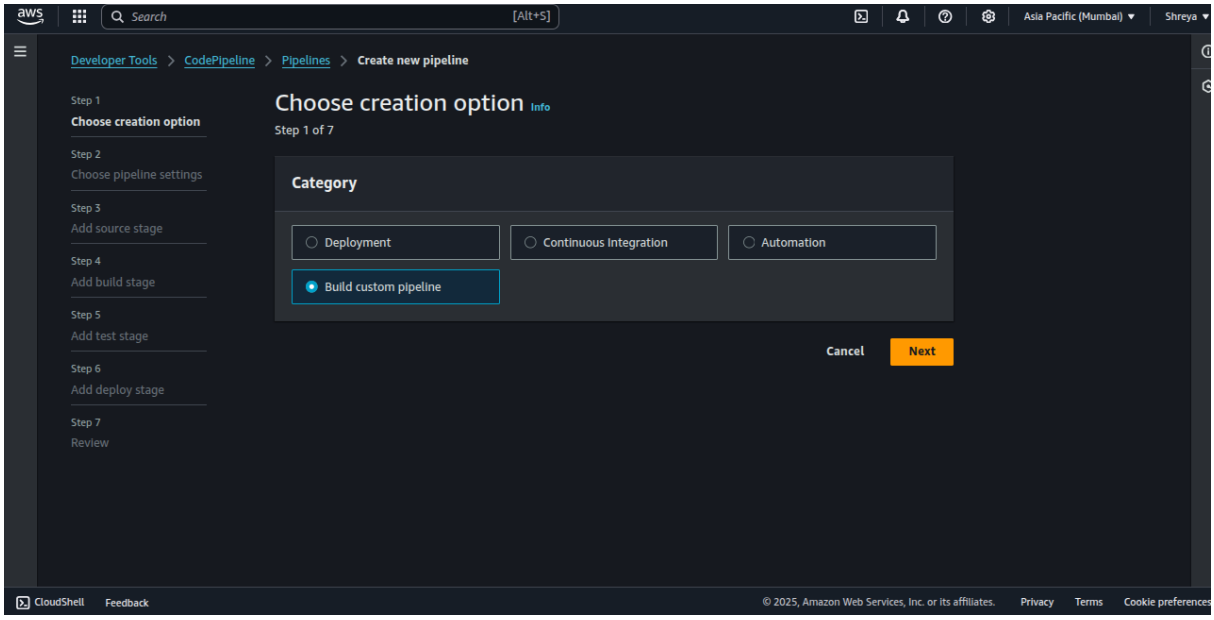
Search
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Asia Pacific (Mumbai)
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Developer Tools > CodePipeline > Pipelines > Create new pipeline
Step 1
Choose creation option
Step 2
Choose pipeline settings
Step 3
Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Choose creation option Info
Step 1 of 7
Category
Deployment
Continuous integration
Automation
Build custom pipeline
Cancel
Next
CloudShell
Feedback
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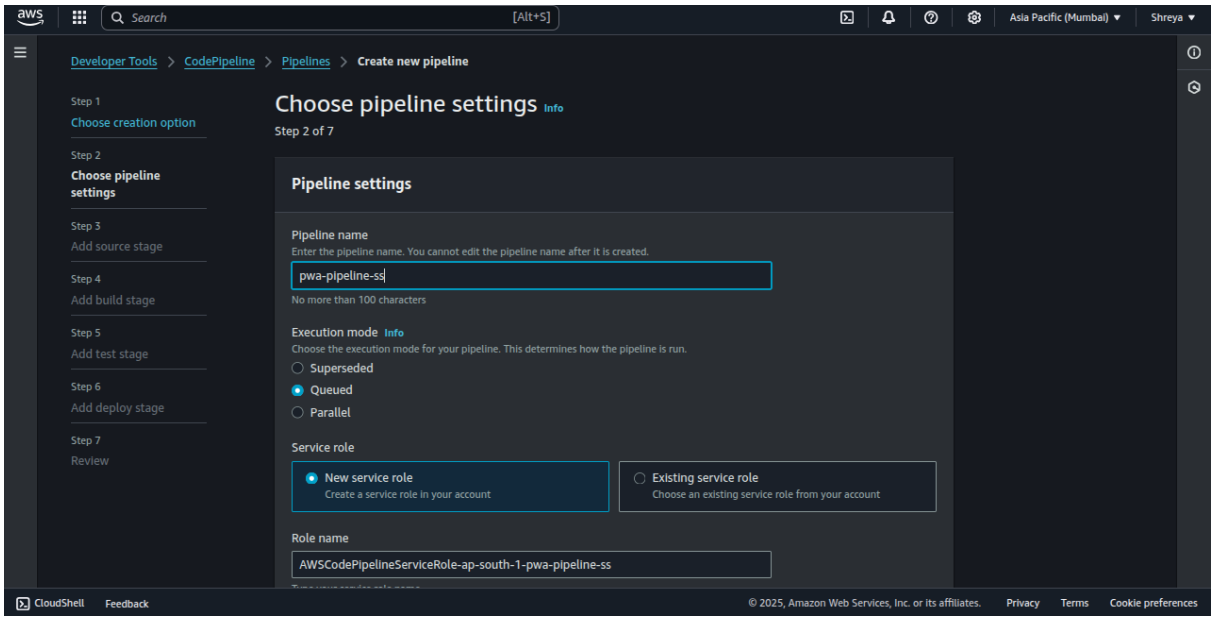
Search
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Asia Pacific (Mumbai)
Shreya
Developer Tools > CodePipeline > Pipelines > Create new pipeline
Step 1
Choose creation option
Step 2
Choose pipeline settings
Step 3
Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy 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.
pwa-pipeline-ss
No more than 100 characters
Execution mode Info
Choose the execution mode for your pipeline. This determines how the pipeline is run.
Superseded
Queued
Parallel
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
AWSCodePipelineServiceRole-ap-south-1-pwa-pipeline-ss
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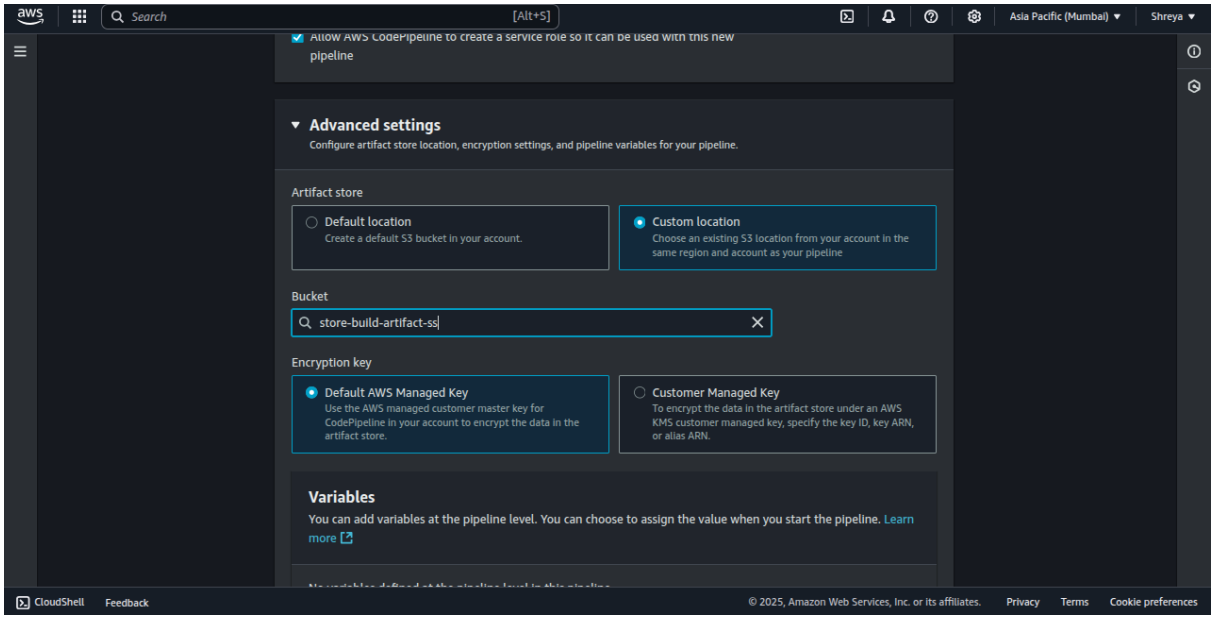
Search
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pipeline
Advanced settings
Configure artifact store location, encryption settings, and pipeline variables for your pipeline.
Artifact store
Default location
Create a default S3 bucket in your account.
Custom location
Choose an existing S3 location from your account in the same region and account as your pipeline
Bucket
store-build-artifact-ss
Encryption key
Default AWS Managed Key
Use the AWS managed customer master key for CodePipeline in your account to encrypt the data in the artifact store.
Customer Managed Key
To encrypt the data in the artifact store under an AWS KMS customer managed key, specify the key ID, key ARN, or alias ARN.
Variables
You can add variables at the pipeline level. You can choose to assign the value when you start the pipeline. Learn more
CloudShell
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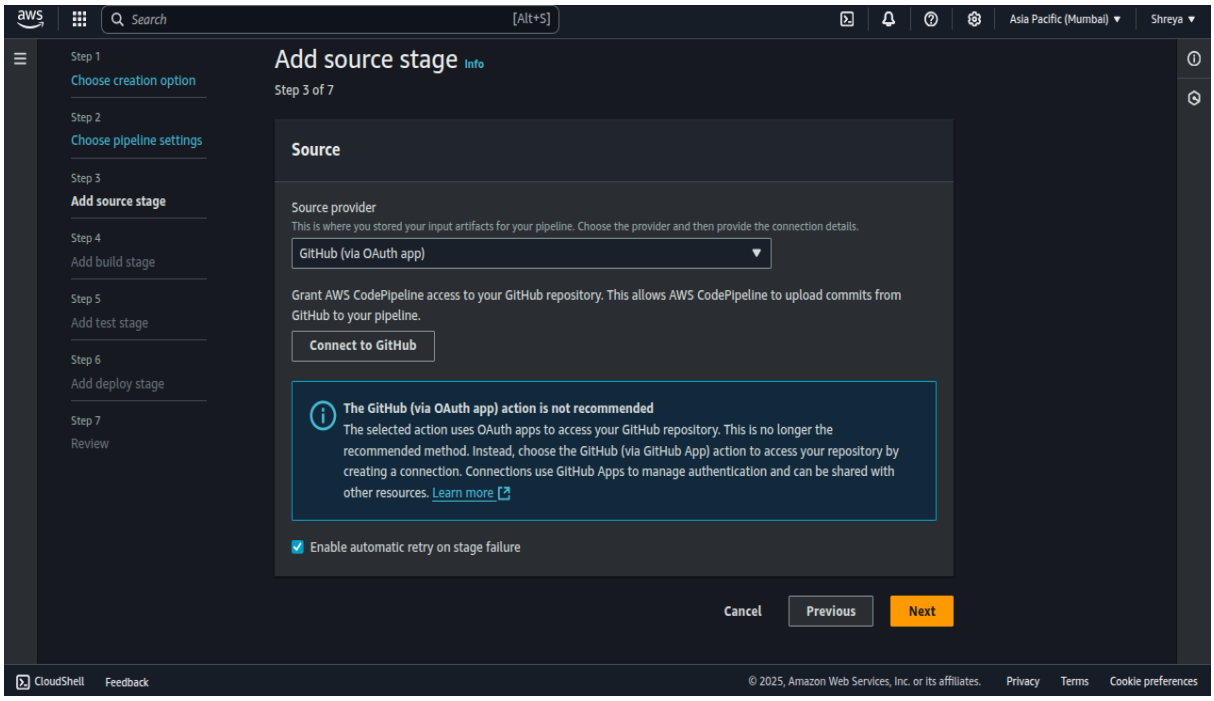
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Step 1
Choose creation option
Step 2
Choose pipeline settings
Step 3
Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Add source stage Info
Step 3 of 7
Source
Source provider
This is where you stored 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.
Connect to GitHub
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
Enable automatic retry on stage failure
Cancel
Previous
Next
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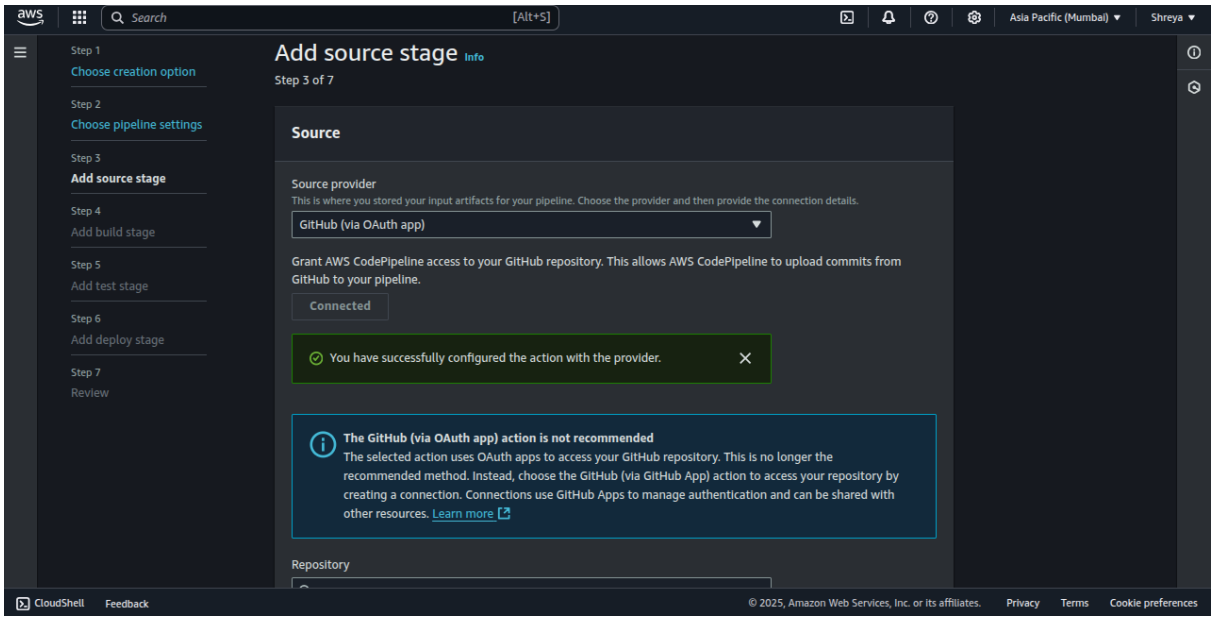
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Step 1
Choose creation option
Step 2
Choose pipeline settings
Step 3
Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Add source stage Info
Step 3 of 7
Source
Source provider
This is where you stored 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
CloudShell
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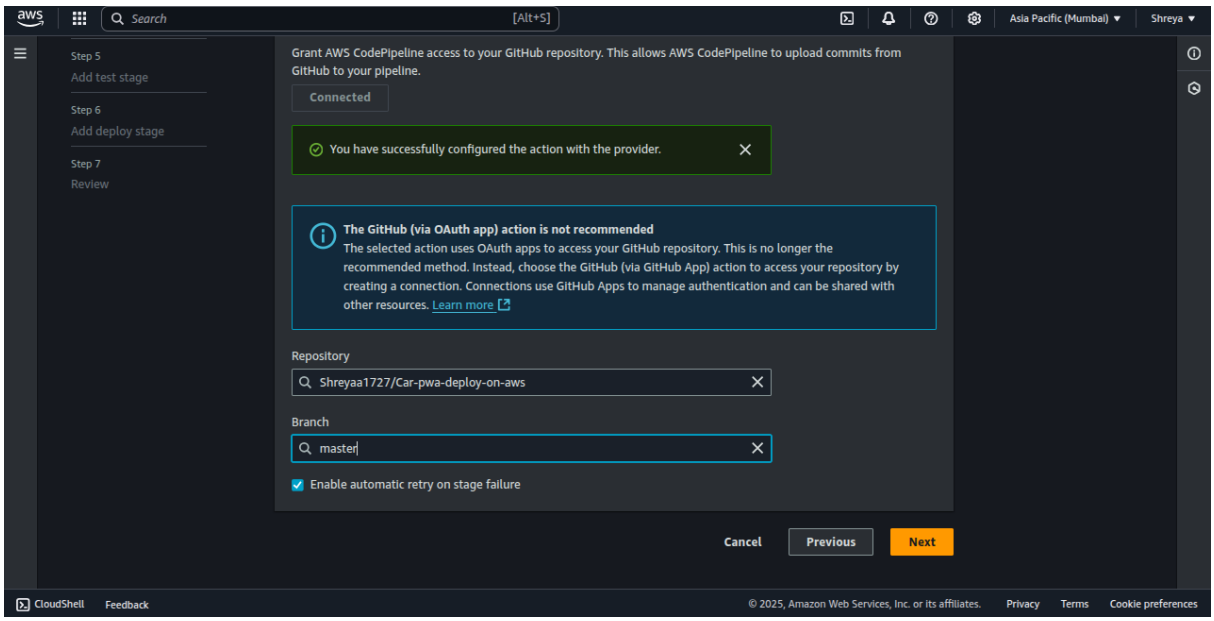
Search
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Asia Pacific (Mumbai)
Shreya
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.
Connected
You have 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
Shreyaa1727/Car-pwa-deploy-on-aws
Branch
master
Enable automatic retry on stage failure
Cancel
Previous
Next
CloudShell
Feedback
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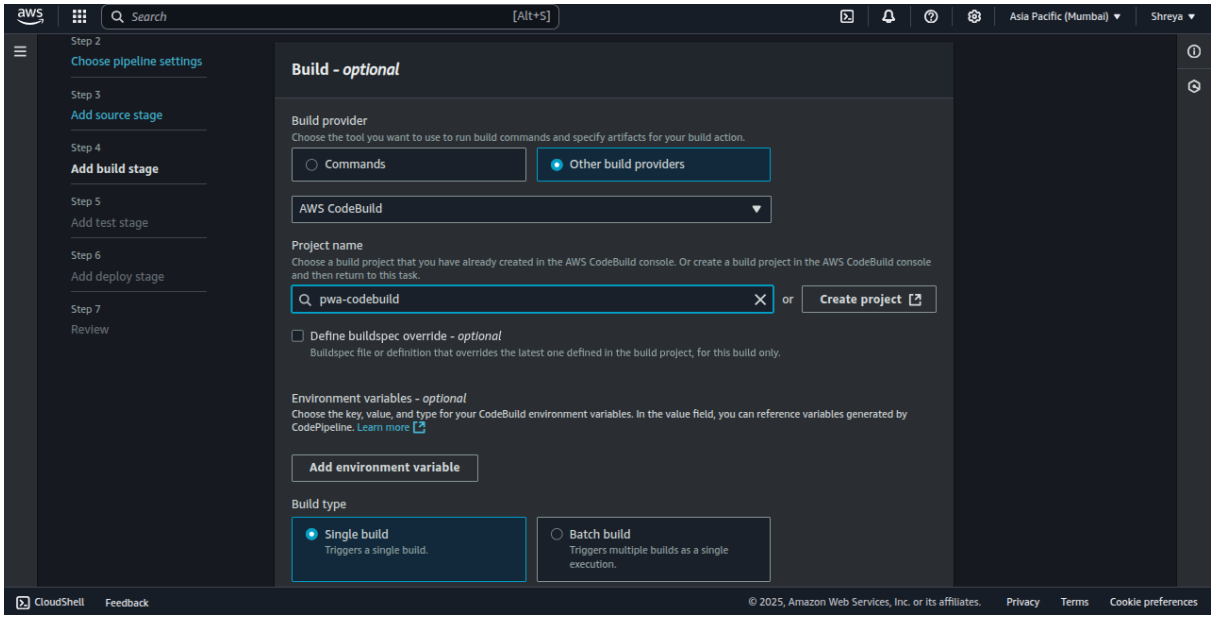
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Step 2
Choose pipeline settings
Step 3
Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Build - optional
Build provider
Choose the tool you want to use to run build commands and specify artifacts for 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.
pwa-codebuild
or
Create project
Define buildspec override - optional
Buildspec file or definition that overrides the latest 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
Triggers a single build.
Batch build
Triggers multiple builds as a single execution.
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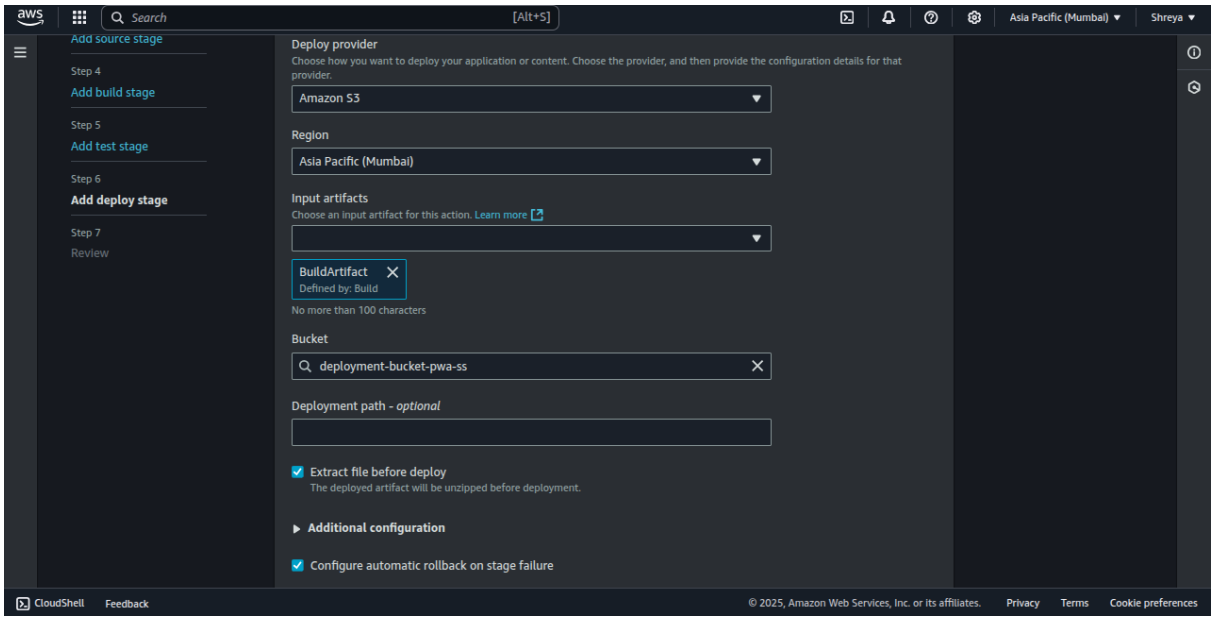
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[Alt+S]
Asia Pacific (Mumbai)
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Add source stage
Step 4
Add build stage
Step 5
Add test stage
Step 6
Add deploy stage
Step 7
Review
Deploy provider
Choose how you want to deploy your application or content. Choose the provider, and then provide the configuration details for that provider.
Amazon S3
Region
Asia Pacific (Mumbai)
Input artifacts
Choose an input artifact for this action. Learn more
BuildArtifact
Defined by: Build
No more than 100 characters
Bucket
deployment-bucket-pwa-ss
Deployment path - optional
Extract file before deploy
The deployed artifact will be unzipped before deployment.
Additional configuration
Configure automatic rollback on stage failure
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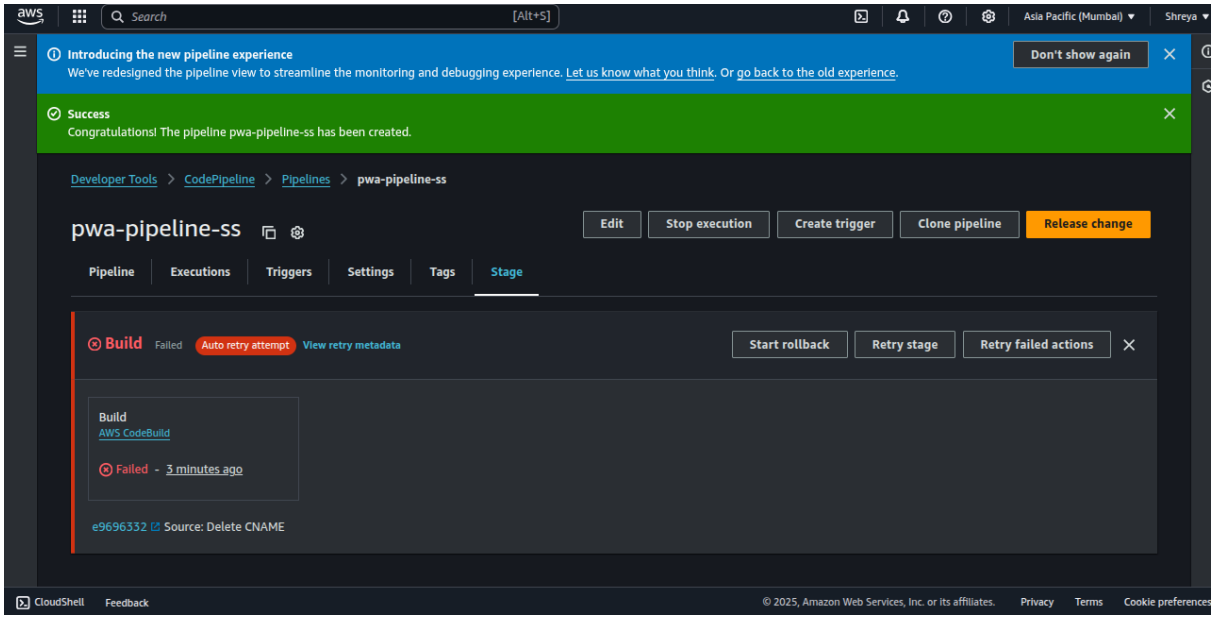
Search
[Alt+S]
Asia Pacific (Mumbai)
Shreya
Introducing the new pipeline experience
We've redesigned the pipeline view to streamline the monitoring and debugging experience. Let us know what you think. Or go back to the old experience.
Don't show again
Success
Congratulations! The pipeline pwa-pipeline-ss has been created.
Developer Tools > CodePipeline > Pipelines > pwa-pipeline-ss
pwa-pipeline-ss
Edit
Stop execution
Create trigger
Clone pipeline
Release change
Pipeline
Executions
Triggers
Settings
Tags
Stage
Build
Failed
Auto retry attempt
View retry metadata
Start rollback
Retry stage
Retry failed actions
Build
AWS CodeBuild
Failed - 3 minutes ago
e9696332 Source: Delete CNAME
CloudShell
Feedback
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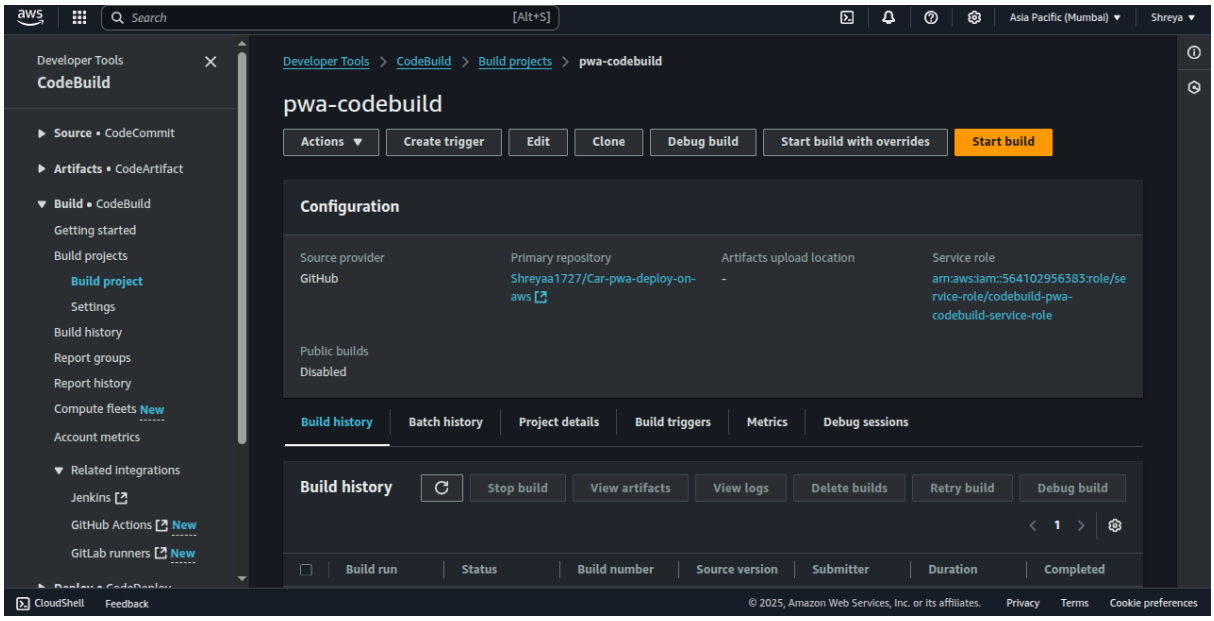
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Developer Tools
CodeBuild
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Getting started
Build projects
Build project
Settings
Build history
Report groups
Report history
Compute fleets New
Account metrics
Related integrations
Jenkins
GitHub Actions New
GitLab runners New
Developer Tools > CodeBuild > Build projects > pwa-codebuild
pwa-codebuild
Actions
Create trigger
Edit
Clone
Debug build
Start build with overrides
Start build
Configuration
Source provider
GitHub
Primary repository
Shreyaa1727/Car-pwa-deploy-on-aws
Artifacts upload location
-
Service role
arn:aws:iam::564102956383:role/service-role/codebuild-pwa-codebuild-service-role
Public builds
Disabled
Build history
Batch history
Project details
Build triggers
Metrics
Debug sessions
Build history
Stop build
View artifacts
View logs
Delete builds
Retry build
Debug build
Build run
Status
Build number
Source version
Submitter
Duration
Completed
CloudShell
Feedback
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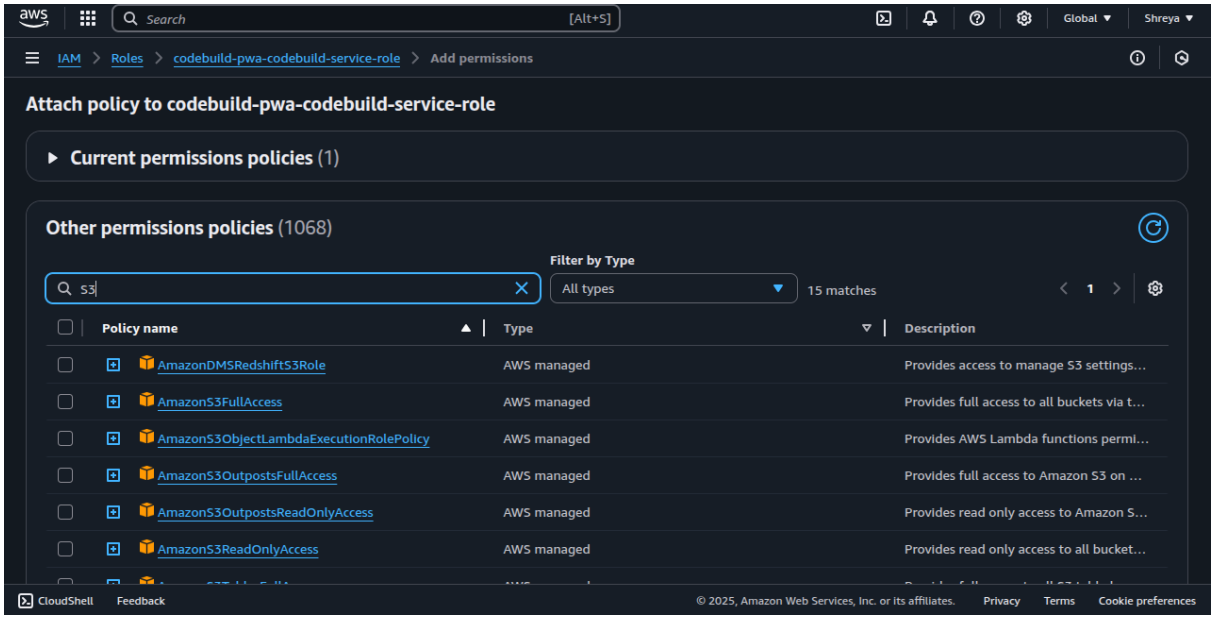
Search [Alt+S]
Global
Shreya
IAM > Roles > codebuild-pwa-codebuild-service-role > Add permissions
Attach policy to codebuild-pwa-codebuild-service-role
Current permissions policies (1)
Other permissions policies (1068)
Filter by Type
s3
All types
15 matches
Policy name
Type
Description
AmazonDMSRedshiftS3Role
AWS managed
Provides access to manage S3 settings...
AmazonS3FullAccess
AWS managed
Provides full access to all buckets via t...
AmazonS3ObjectLambdaExecutionRolePolicy
AWS managed
Provides AWS Lambda functions permi...
AmazonS3OutpostsFullAccess
AWS managed
Provides full access to Amazon S3 on ...
AmazonS3OutpostsReadOnlyAccess
AWS managed
Provides read only access to Amazon S...
AmazonS3ReadOnlyAccess
AWS managed
Provides read only access to all bucket...
CloudShell
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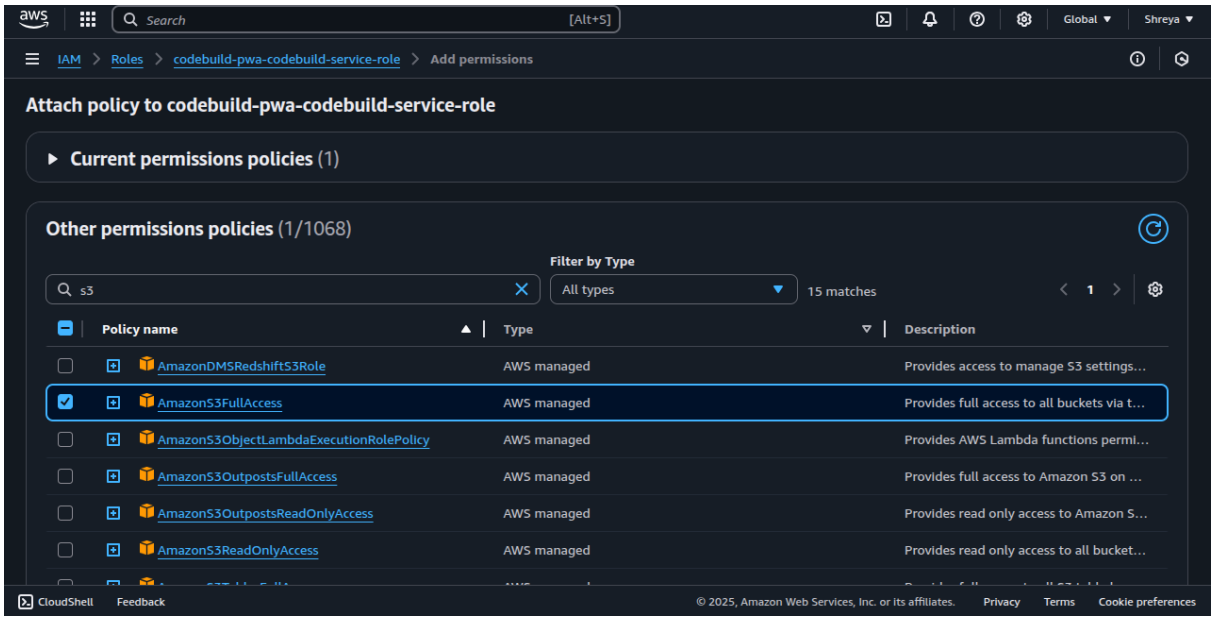
Search [Alt+S]
Global
Shreya
IAM > Roles > codebuild-pwa-codebuild-service-role > Add permissions
Attach policy to codebuild-pwa-codebuild-service-role
Current permissions policies (1)
Other permissions policies (1/1068)
Filter by Type
s3
All types
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Policy name
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Description
AmazonDMSRedshiftS3Role
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Provides access to manage S3 settings...
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AmazonS3ObjectLambdaExecutionRolePolicy
AWS managed
Provides AWS Lambda functions permi...
AmazonS3OutpostsFullAccess
AWS managed
Provides full access to Amazon S3 on ...
AmazonS3OutpostsReadOnlyAccess
AWS managed
Provides read only access to Amazon S...
AmazonS3ReadOnlyAccess
AWS managed
Provides read only access to all bucket...
CloudShell
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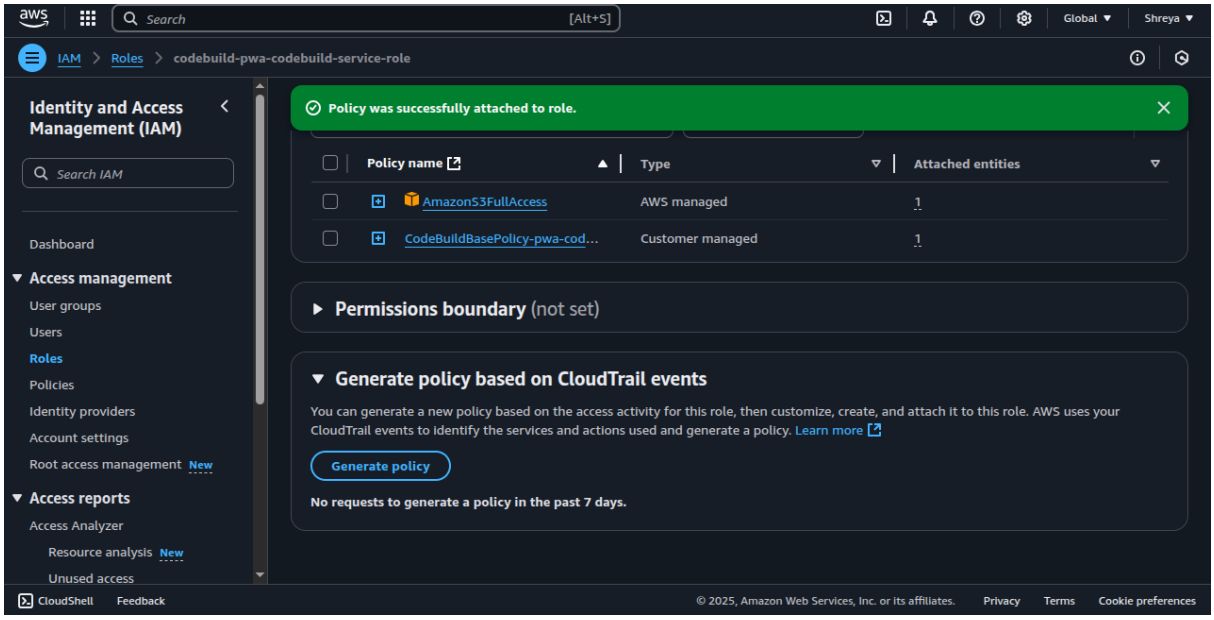
Search [Alt+S]
Global
Shreya
IAM > Roles > codebuild-pwa-codebuild-service-role
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
Resource analysis New
Unused access
Policy was successfully attached to role.
Policy name
Type
Attached entities
AmazonS3FullAccess
AWS managed
1
CodeBuildBasePolicy-pwa-cod...
Customer managed
1
Permissions boundary (not set)
Generate policy based on CloudTrail events
You can generate a new policy based on the access activity for this role, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the services and actions used and generate a policy. Learn more
Generate policy
No requests to generate a policy in the past 7 days.
CloudShell
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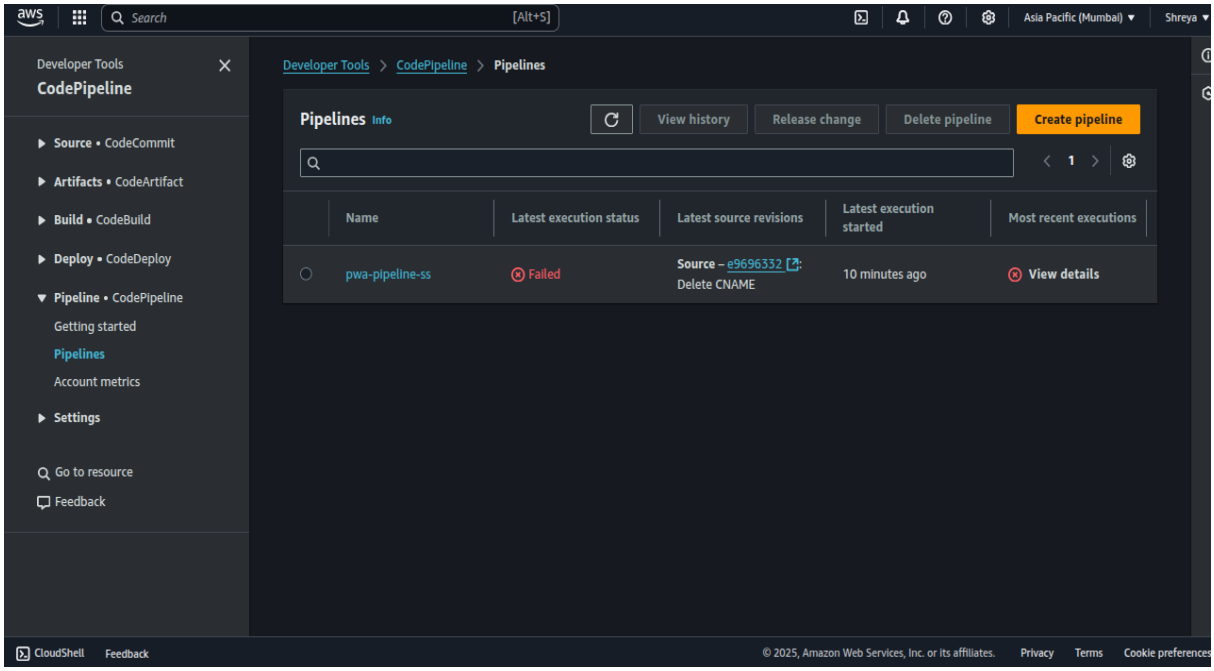
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Developer Tools
CodePipeline
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Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
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Settings
Go to resource
Feedback
Developer Tools > CodePipeline > Pipelines
Pipelines Info
View history
Release change
Delete pipeline
Create pipeline
Name
Latest execution status
Latest source revisions
Latest execution started
Most recent executions
pwa-pipeline-ss
Failed
Source – e9696332
Delete CNAME
10 minutes ago
View details
CloudShell
Feedback
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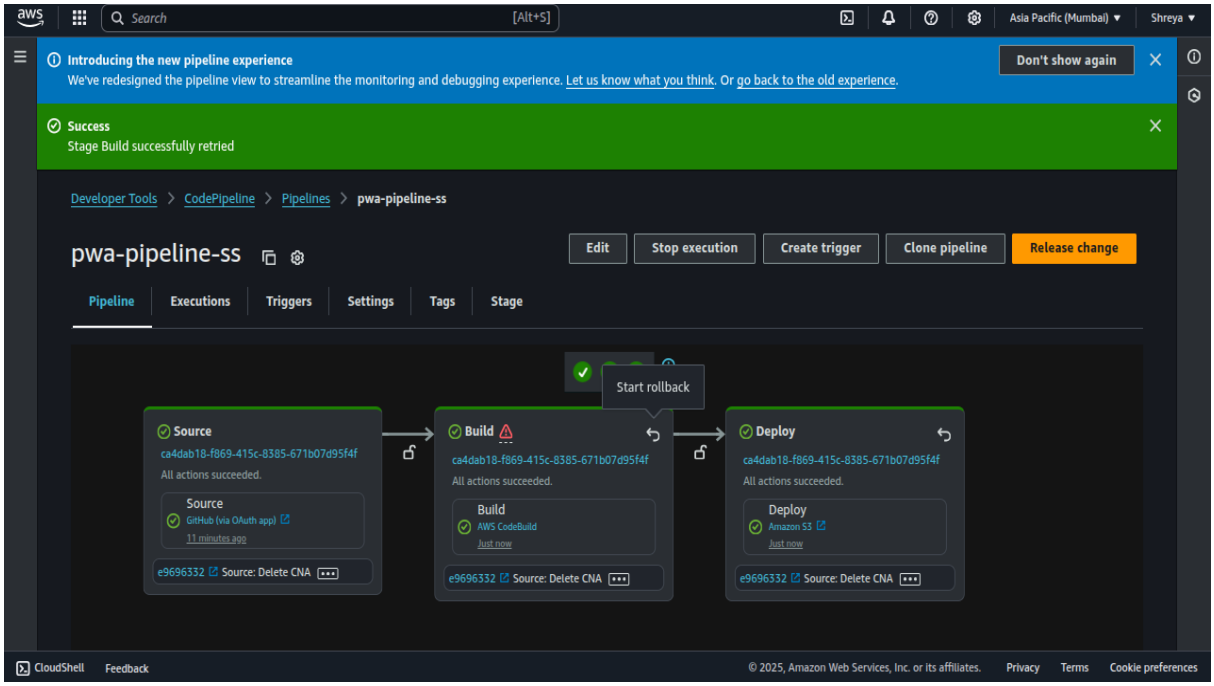
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Introducing the new pipeline experience
We've redesigned the pipeline view to streamline the monitoring and debugging experience. Let us know what you think. Or go back to the old experience.
Don't show again
Success
Stage Build successfully retried
Developer Tools > CodePipeline > Pipelines > pwa-pipeline-ss
pwa-pipeline-ss
Edit
Stop execution
Create trigger
Clone pipeline
Release change
Pipeline
Executions
Triggers
Settings
Tags
Stage
Start rollback
Source
ca4dab18-f869-415c-8385-671b07d95f4f
All actions succeeded.
Source
GitHub (via OAuth app)
11 minutes ago
e9696332 Source: Delete CNA
Build
ca4dab18-f869-415c-8385-671b07d95f4f
All actions succeeded.
Build
AWS CodeBuild
Just now
e9696332 Source: Delete CNA
Deploy
ca4dab18-f869-415c-8385-671b07d95f4f
All actions succeeded.
Deploy
Amazon S3
Just now
e9696332 Source: Delete CNA
CloudShell
Feedback
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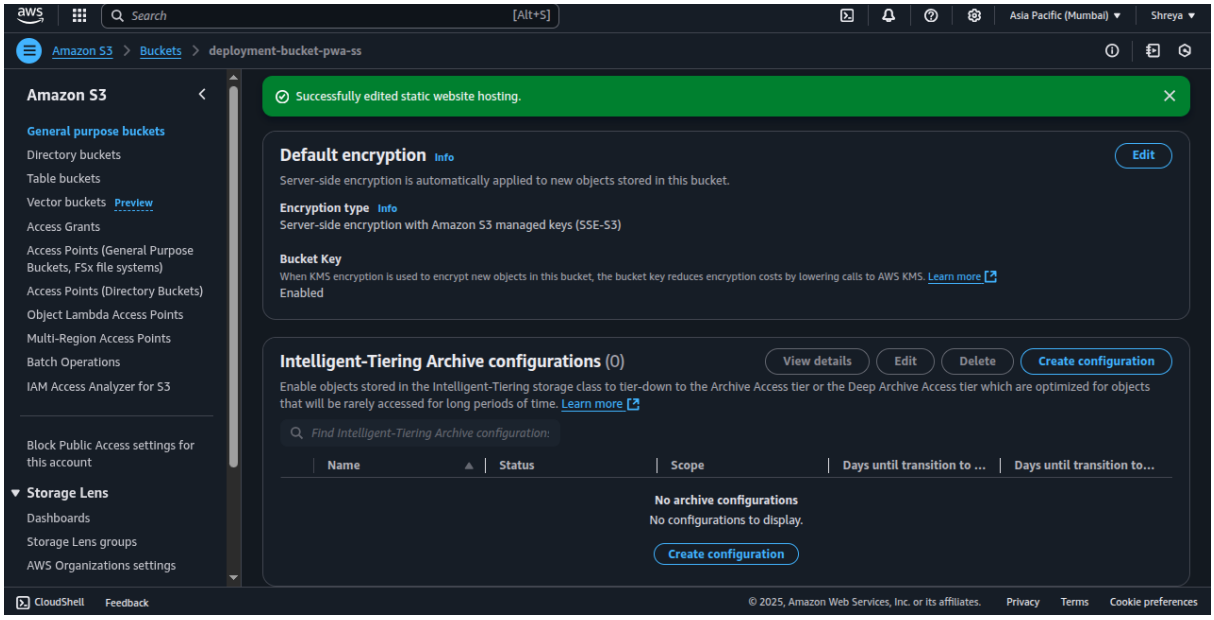
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Amazon S3 > Buckets > deployment-bucket-pwa-ss
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Successfully edited static website hosting.
Default encryption Info
Edit
Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption type Info
Server-side encryption with Amazon S3 managed keys (SSE-S3)
Bucket Key
When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS. Learn more
Enabled
Intelligent-Tiering Archive configurations (0)
View details
Edit
Delete
Create configuration
Enable objects stored in the Intelligent-Tiering storage class to tier-down to the Archive Access tier or the Deep Archive Access tier which are optimized for objects that will be rarely accessed for long periods of time. Learn more
Find Intelligent-Tiering Archive configuration
Name
Status
Scope
Days until transition to ...
Days until transition to...
No archive configurations
No configurations to display.
Create configuration
CloudShell
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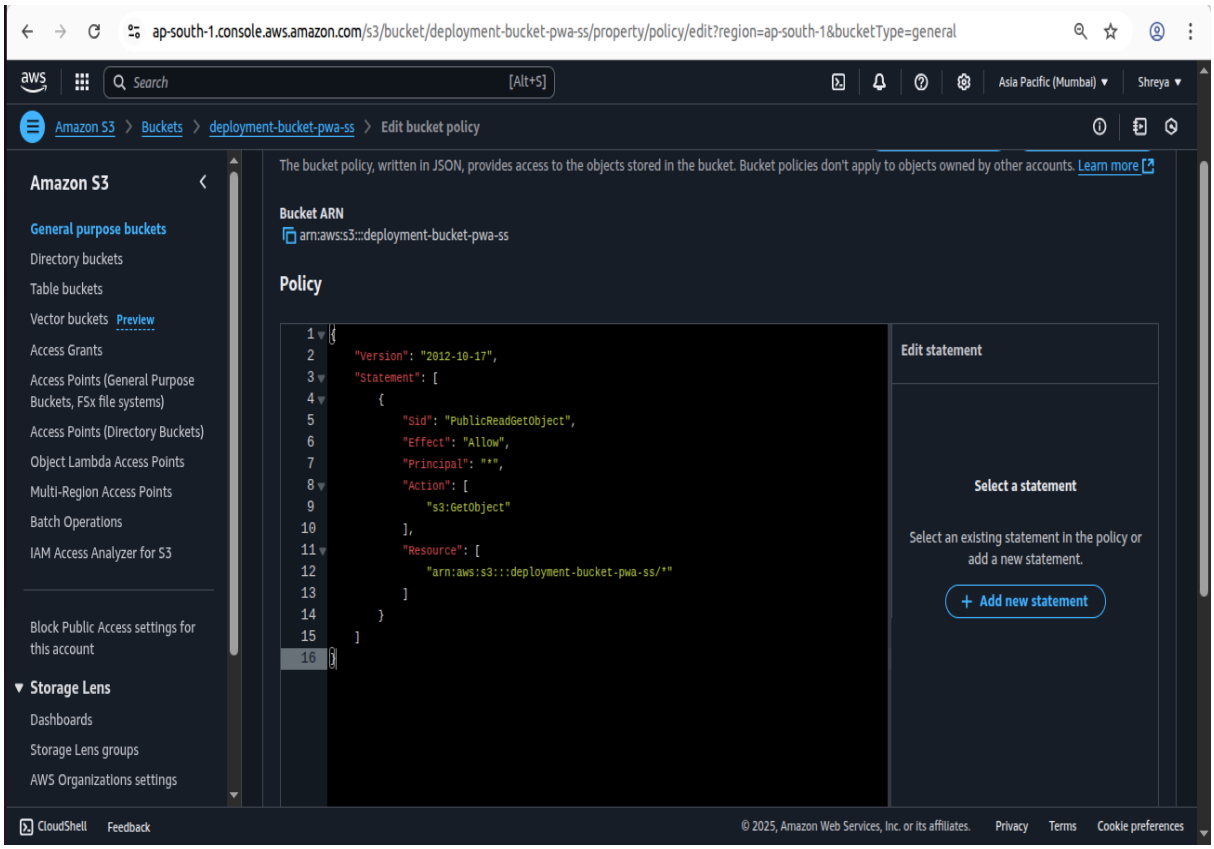
Not secure
deployment-bucket-pwa-ss.s3-website.ap-south-1.amazonaws.com
403 Forbidden
Code: AccessDenied
Message: Access Denied
RequestId: 1XSHBDZXVAVFDXHW
HostId: i0KGeXRVYViq07E8s1rtqqQNb5IEDftpitImqm57TYo5qT3mkDgwVDEOgVgjxz+QUN5jp9gTOvr70FmPHx1TGzDQ9m+qMHYV


ap-south-1.console.aws.amazon.com/s3/bucket/deployment-bucket-pwa-ss/property/policy/edit?region=ap-south-1&bucketType=general
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Amazon S3
Buckets
deployment-bucket-pwa-ss
Edit bucket policy
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts.
Learn more
Bucket ARN
arn:aws:s3:::deployment-bucket-pwa-ss
Policy
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "PublicReadGetObject",
"Effect": "Allow",
"Principal": "*",
"Action": [
"s3:GetObject"
],
"Resource": [
"arn:aws:s3:::deployment-bucket-pwa-ss/*"
]
}
]
}
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
+ Add new statement
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Conclusion: In this experiment, we created two buckets named as store-build-artifact-ss and deployement-bucket-pwa-ss . Also we successfully created a fully automated continuous deployment pipeline using AWS CodePipeline. By integrating GitHub**,** Amazon S3, and CodeBuild as the source .We built a simple pipeline that deploys code changes automatically. This setup demonstrates the power of automation in cloud-based application delivery, reducing manual effort and ensuring faster, consistent deployments.