AWS Task-5

Task Description:

Deploy a simple web application using AWS code commit, code build and deploy & access via browser and automate via codepipeline.

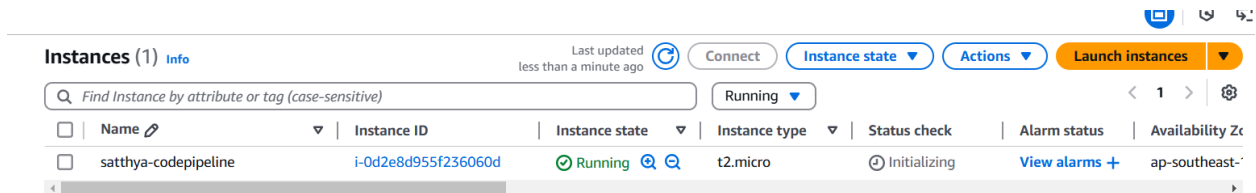## Techstacks needs to be used :

AWS CI-CD (CodeCommit, CodeBuild, CodeDeploy, CodePipeline).
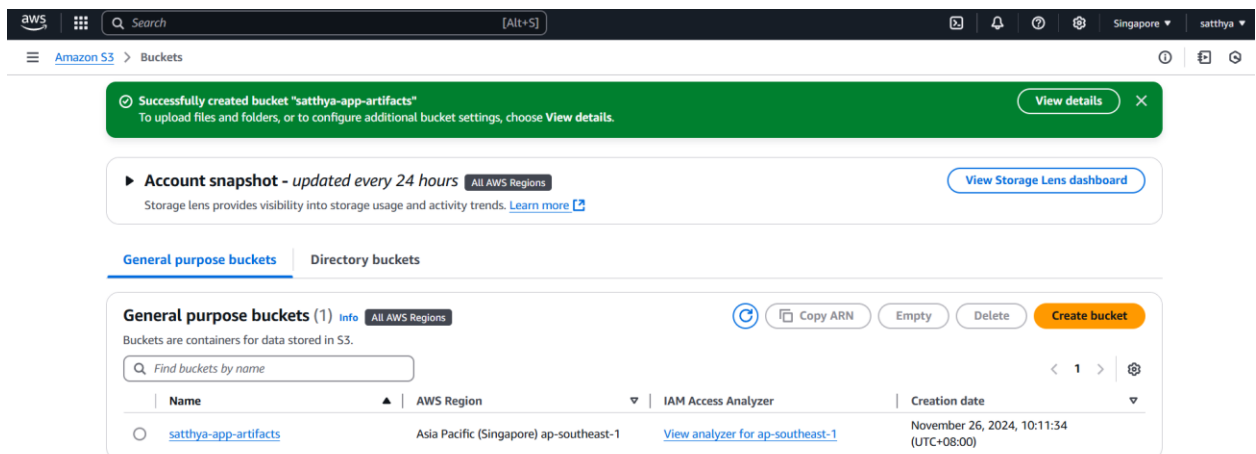
Step1

✚ Create an EC2 instance
- Create IAM role and assigned to EC2.
- Ensure ruby is install in EC2.

✚ Create an S3 bucket (for storing build artifacts):

Step2

✚ Setup AWS CodeCommit

- AWS Management Console → CodeCommit → Create Repository
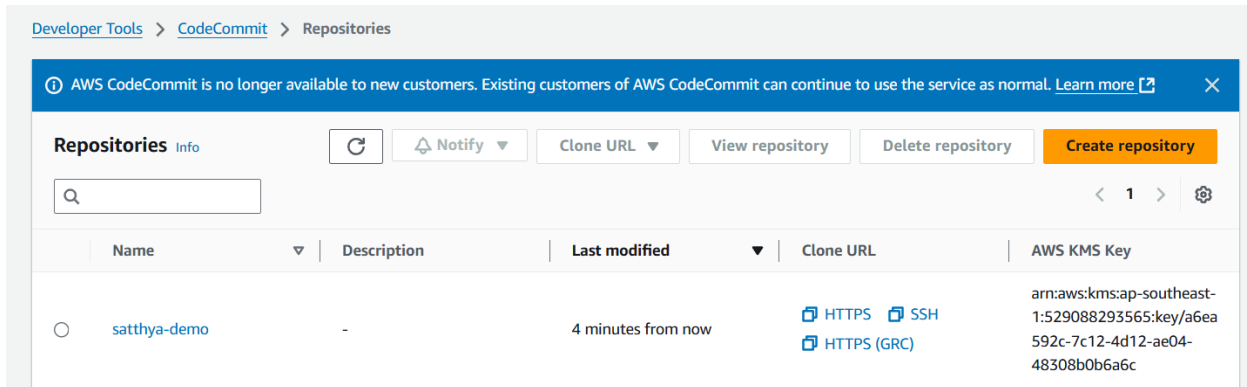
✚ Push the application files to CodeCommit

- git clone https://git-codecommit.ap-southeast-1.amazonaws.com/v1/repos/satthya-demo
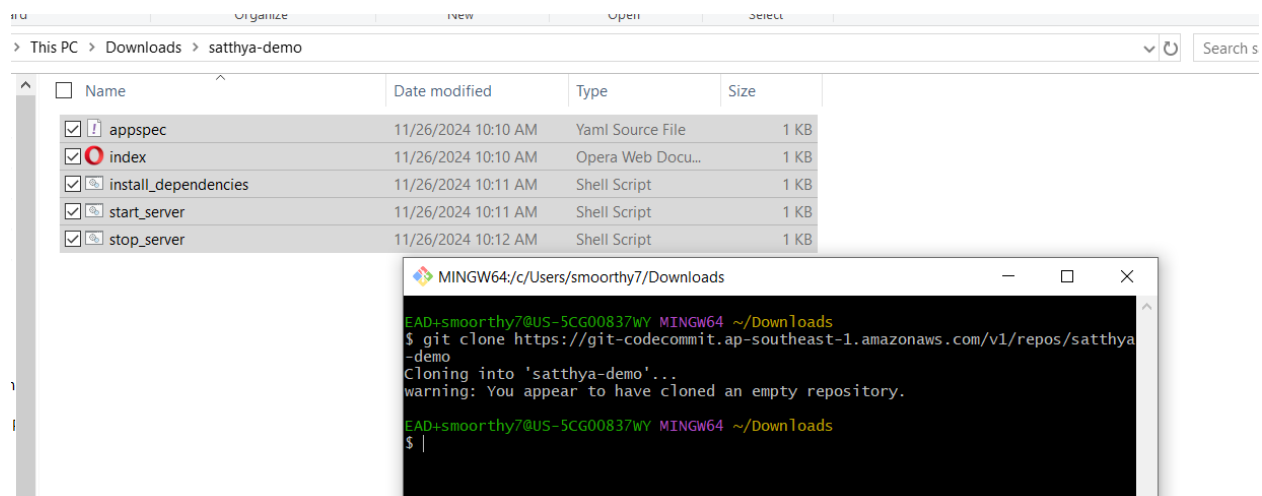

- git add .
- git commit -m "first commit"
- git remote
- git push url

Step3

Configure AWS CodeBuild
- o create code build project
- o start code build

step4

🔧 Configure AWS CodeDeploy

- Create a CodeDeploy application
- Create a Deployment Group
- Create Deployment

⊘ **Application created**
In order to create a new deployment, you must first create a deployment group.

Create a notification rule for this application   ✕

Developer Tools > CodeDeploy > Applications > satthya-application

satthya-application

🔔 Notify ▼   Delete application

Application details

Name	Compute platform
satthya-application	EC2/On-premises

Developer Tools > CodeDeploy > Applications > satthya-application

satthya-application

🔔 Notify ▼   Delete application

Application details

Name	Compute platform
satthya-application	EC2/On-premises

Deployments   **Deployment groups**   Revisions

Deployment groups

View details   Edit   **Create deployment group**

🔍 _____   ‹ 1 › ⚙

	Name	Status	Last attempted deploy...	Last successful deploym...	Trigger count
◯	satthya-deployment-group	-	-	-	0

The screenshot shows AWS CodeDeploy deployment details for arn:aws:ec2:ap-southeast-1:529088293565:instance/i-01858a6ac4342c943

Deployment details:
- Application: satthya-application
- Deployment configuration: CodeDeployDefault.AllAtOnce
- Deployment description: -
- Deployment ID: d-SCI99NR69
- Deployment group: satthya-group
- Status: Succeeded
- Initiated by: User action

Revision details:
- Revision location: s3://satthya-app-artifacts/satthya-build
- Revision created: 2 minutes from now
- Revision description: Application revision registered by Deployment ID: d-SCI99NR69

Event	Duration	Status	Error code	Start time	End time
ApplicationStop	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
DownloadBundle	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
BeforeInstall	1 second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
Install	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
AfterInstall	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
ApplicationStart	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)
ValidateService	less than one second	Succeeded	-	Nov 26, 2024 10:56 PM (UTC+8:00)	Nov 26, 2024 10:56 PM (UTC+8:00)

Step5

Automate with AWS CodePipeline

It works!