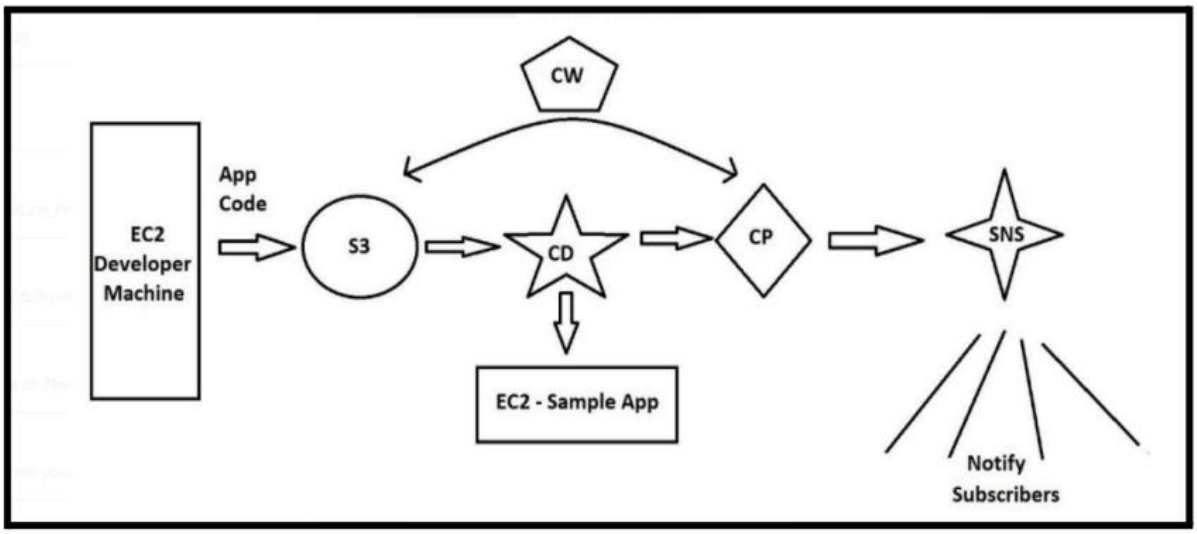
CODE PIPELINE:

AWS CodePipeline is a continuous delivery service that enables you to model, visualize, and automate the steps required to release your software. AWS CodePipeline then builds, tests, and deploys your application according to the defined workflow every time there is a code change.

CODE DEPLOY:

AWS CodeDeploy is a service that automates code deployments to Elastic Compute Cloud (EC2) and on-premises servers. Accelerating how fast a developer can release code allows him to release new features for an application faster and avoid deployment errors in complex applications.



CODE DEPLOY AND CODE PIPELINE PROJECT

Code Deploy and Code Pipeline project steps:

CodeDeploy is a deployment service from AWS which can automate application deployments to Amazon EC2 instances, on-premises instances or Lambda functions. This does a onetime deployment, for scheduling of deployment you may have to use AWS CodePipeline also.

Application: A CodeDeploy application can be defined from AWS CodeDeploy web console.

Revision: Represents the code need to be deployed on EC2 instance.

Appspec file: This contains the instruction to CodeDeploy, like copying of files, executing the scripts etc during the code deployment process. It is present in the root directory of unzipped code with name appspec.yml.

Deployment Group: Represent set of machines of Lambda function where code has to be deployed.

Deployment: The process of deployment.

Setup in Brief:

I have used two EC2 instance of AMZ2 Linux. First one is the web server we will be configuring, also called CodeDeploy agent. Second EC2 machine is supposed to use by developer where the codes are programmed. The names of the resources in the experiment are arbitrary and may name the resources your own.

1. Create IAM Roles for EC2-S3-CodeDeploy access.

2. Create IAM user account for developer

3. Install and prepare the CodeDeploy agent on webserver.

4. Create the code from Developer machine

5. Create Codedeploy Application and Push the code to S3 bucket from Developer machine

6. Create Deployment Group to include web server

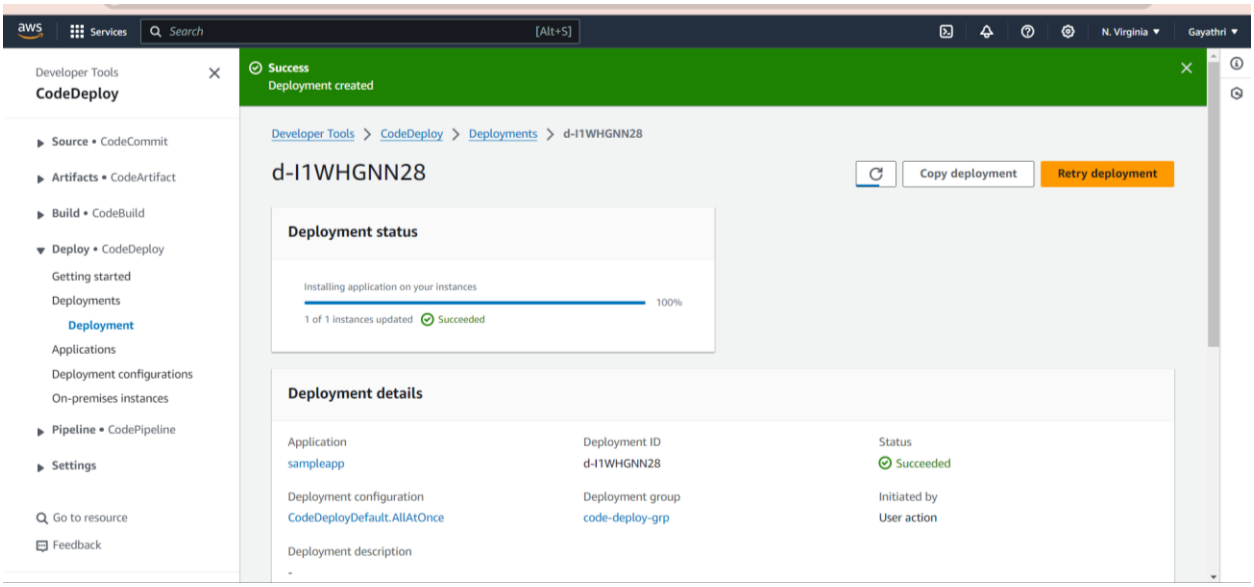
7. Create Deployment to push the code to the Webserver

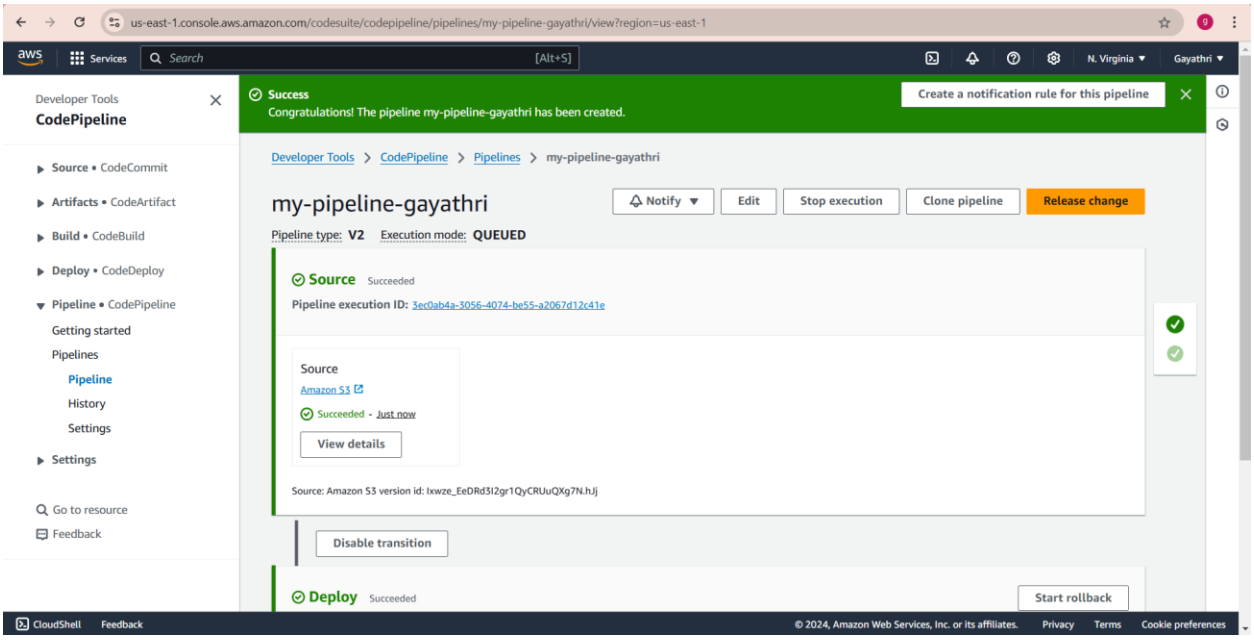
8. Test the website configuration

Services required:

EC2, S3, CodeDeploy, CodePipeline, CloudWatch, IAM, SNS

This project will be a valuable resource for anyone who wants to learn how to use AWS CodePipeline and CodeDeploy to automate their software delivery process.


Developer Tools
CodeDeploy
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Getting started
Deployments
Deployment
Applications
Deployment configurations
On-premises instances
Pipeline • CodePipeline
Settings
Go to resource
Feedback
Success
Deployment created
Developer Tools > CodeDeploy > Deployments > d-I1WHGNN28
d-I1WHGNN28
Copy deployment
Retry deployment
Deployment status
Installing application on your instances
100%
1 of 1 instances updated
Succeeded
Deployment details
Application
sampleapp
Deployment ID
d-I1WHGNN28
Status
Succeeded
Deployment configuration
CodeDeployDefault.AllAtOnce
Deployment group
code-deploy-grp
Initiated by
User action
Deployment description


us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/my-pipeline-gayathri/view?region=us-east-1
Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Success
Congratulations! The pipeline my-pipeline-gayathri has been created.
Create a notification rule for this pipeline
Developer Tools > CodePipeline > Pipelines > my-pipeline-gayathri
my-pipeline-gayathri
Notify
Edit
Stop execution
Clone pipeline
Release change
Pipeline type: V2
Execution mode: QUEUED
Source
Succeeded
Pipeline execution ID: 3ec0ab4a-3056-4074-be55-a2067d12c41e
Source
Amazon S3
Succeeded - Just now
View details
Source: Amazon S3 version id: Ixwze_EeDRd3I2gr1QyCRUuQXg7N.hJj
Disable transition
Deploy
Succeeded
Start rollback
CloudShell
Feedback
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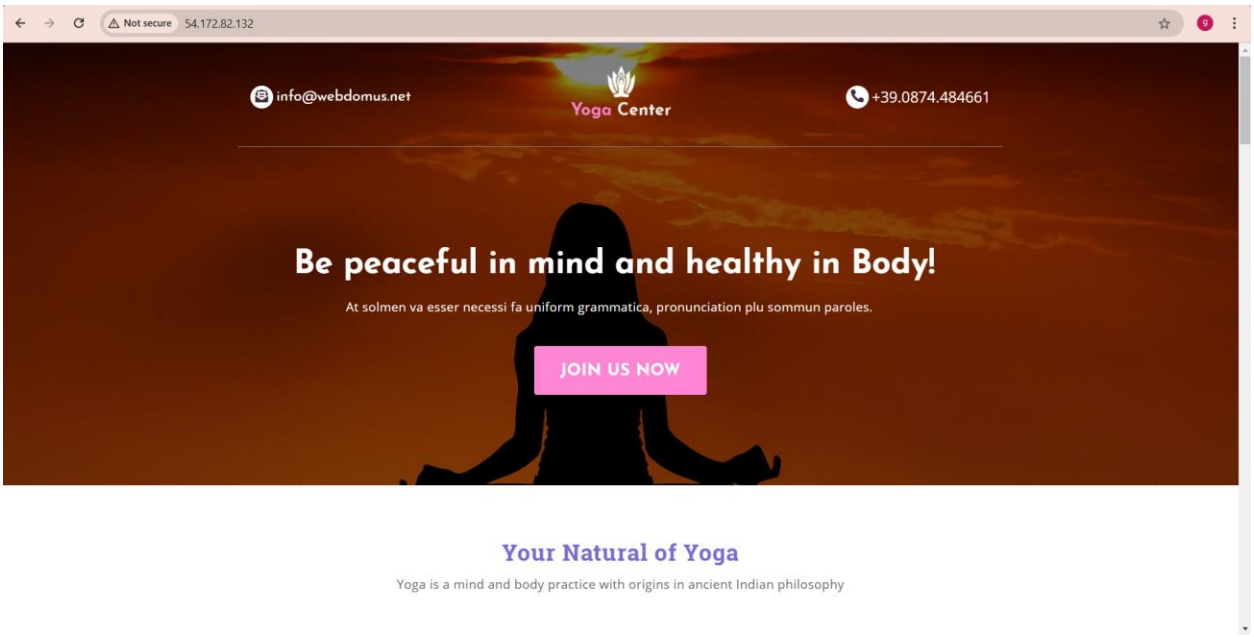

Your Natural of Yoga

Yoga is a mind and body practice with origins in ancient Indian philosophy