

COGNIZANCE 2K24

CSPIT CE

Title of Workshop: AWS-DevOps

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Days of Workshop: 1 Day

Expert Name: Mr.Nilesh Vaghela (Founder of Electromac)

Content of Workshop:

Hands On 1: Create a pipeline that uses Amazon S3 as a deployment provider

In this tutorial, you configure a pipeline that continuously delivers files using Amazon S3 as the deployment action provider in your deployment stage. The completed pipeline detects changes when you make a change to the source files in your source repository. The pipeline then uses Amazon S3 to deploy the files to your bucket. Each time you modify or add your website files in your source location, the deployment creates the website with your latest files.

Hands On 2: Create a simple pipeline (S3 bucket)

The easiest way to create a pipeline is to use the Create pipeline wizard in the AWS CodePipeline console.

In this tutorial, you create a two-stage pipeline that uses a versioned S3 bucket and CodeDeploy to release a sample application.

Hands On 3: Create a simple pipeline (Code Commit)

The easiest way to create a pipeline is to use the Create pipeline wizard in the AWS CodePipeline console.

In this tutorial, you create a two-stage pipeline that uses a codeCommit and CodeDeploy to release a sample application.

Hands On 4: Create a simple pipeline (GitHub)

The easiest way to create a pipeline is to use the Create pipeline wizard in the AWS CodePipeline console.

In this tutorial, you create a two-stage pipeline that uses a GitHub and CodeDeploy to release a sample application.

Hands On 5: Create a simple pipeline (CodeCommit repository)

In this tutorial, you use CodePipeline to deploy code maintained in a CodeCommit repository to a single Amazon EC2 instance. Your pipeline is triggered when you push a change to the CodeCommit repository. The pipeline deploys your changes to an Amazon EC2 instance using CodeDeploy as the deployment service.

The pipeline has two stages:

A source stage (Source) for your CodeCommit source action.

A deployment stage (Deploy) for your CodeDeploy deployment action.

The easiest way to get started with AWS CodePipeline is to use the Create Pipeline wizard in the CodePipeline console.

Set up a CloudWatch Events rule to receive email notifications for pipeline state changes

In this tutorial, you configure a notification to send an email when a pipeline's state changes to FAILED. This tutorial uses an input transformer method when creating the CloudWatch Events rule. It transforms the message schema details to deliver the message in human-readable text.

Hands On 5: Create an AWS CodeCommit pipeline with AWS CloudFormation

In this tutorial, you use the provided sample template file to create your resource stack, which includes your artifact store, pipeline, and change-detection resources, such as your Amazon CloudWatch Events rule. After you create your resource stack in AWS CloudFormation, you can view your pipeline in the AWS CodePipeline console. The pipeline is a two-stage pipeline with a CodeCommit source stage and a CodeDeploy deployment stage.