

# DevOps Certification Training

Study Material – Cloud DevOps



## **What is Cloud DevOps :**

DevOps is a software engineering practice that is suited to cloud computing. In a DevOps environment, developers collaborate with IT operations and other teams. DevOps goes beyond continuous integration and continuous delivery (CI/CD) to enable near-instantaneous deployment of products and services in the cloud.

## **What is the role of cloud DevOps?**

A cloud DevOps engineer is responsible for the development and operational aspects of a company's cloud computing infrastructure. They work with developers to ensure that applications are deployed and operated in a cloud environment.

## **What is AWS DevOps ?**

DevOps on AWS specialization teaches you how to use the combination of DevOps philosophies, practices and tools to develop, deploy, and maintain applications in the AWS Cloud. Benefits of adopting DevOps include: rapid delivery, reliability, scalability, security and improved collaboration. In AWS DevOps, we use AWS managed products and services to implement DevOps practices. Like AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, AWS Cloud Watch and AWS CodePipeline etc.

## **What is AWS Code Commit ?**

AWS CodeCommit is a secure, highly scalable, managed source control service that makes it easier for teams to collaborate on code. AWS CodeCommit eliminates the need for you to operate your own source control system or worry about scaling its infrastructure.

## **What is AWS CodePipeline ?**

AWS CodePipeline is a fully managed continuous integration and continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates.

## **What is AWS CodeBuild ?**

AWS CodeBuild is a fully managed continuous integration service that compiles source code, runs tests, and produces ready-to-deploy software packages.

## **What is AWS CodeDeploy?**

AWS CodeDeploy is a service that automates code deployments to any instance, including Amazon EC2 instances and instances running on-premises. AWS CodeDeploy makes it easier for you to rapidly release new features, helps you avoid downtime during deployment, and handles the complexity of updating your applications.

## **What is AWS CloudWatch ?**

Amazon CloudWatch is a monitoring and management service that provides data and actionable insights for AWS, hybrid, and on-premises applications and infrastructure resources.

## **What is AWS Cloud Formation ?**

**AWS CloudFormation** helps to automate the process of creating, configuring and managing AWS resources.

## **What is Azure DevOps ?**

Azure DevOps is a Software as a service (SaaS) platform from Microsoft that provides an end-to-end DevOps toolchain for developing and deploying software. It also integrates with most leading tools on the market and is a great option for orchestrating a DevOps toolchain.

## **What is Azure DevOps used for?**

Azure DevOps supports a collaborative culture and set of processes that bring together developers, project managers, and contributors to develop software. It allows organizations to create and improve products at a faster pace than they can with traditional software development approaches.

## **What are Azure Boards ?**

Azure Boards provides software development teams with the interactive and customizable tools they need to manage their software projects.

## **What is Azure Pipeline?**

Azure Pipelines automatically builds and tests code projects. It supports all major languages and project types and combines continuous integration, continuous delivery, and continuous testing to build, test, and deliver your code to any destination.