

# DEVOPS ENGINEERING ON AWS

Course Code: 1979

Learn the core principles of DevOps methodology and use cases.

DevOps Engineering on AWS teaches you how to use the combination of tools, practices, and cultural philosophy of DevOps to improve an organization's ability to develop, deliver, and maintain applications and services at high velocity on AWS. This course covers Continuous Integration (CI), Continuous Delivery (CD), microservices, infrastructure as code, monitoring and logging, and communication and collaboration.

## What You'll Learn

- List the advantages of small DevOps teams
- List the roles and responsibilities of the members of a typical small DevOps team
- Leverage AWS Cloud9 to write, run and debug your code as well as share your cloud-based IDE with your dev team.
- Build continuous integration/continuous delivery (CI/CD) pipelines including testing and security
- Develop Git branching strategies and integrate with CI/CD pipeline for various environments
- Use AWS CloudFormation to deploy development, test, and production environments for a software development project
- Design and implement an infrastructure on AWS that supports DevOps development projects
- Build a CI/CD pipeline for AWS CloudFormation templates
- Establish collaboration by bringing together the workflows and responsibilities of development and operations
- Host secure, highly scalable private Git repositories with AWS CodeCommit
- Leverage Amazon Elastic Container Registry (Amazon ECR) to securely store Docker container images and integrate with AWS CodeBuild and Amazon Elastic Container Service (Amazon ECS).
- Automate build, test, and packaging code with AWS CodeBuild
- Integrate security in the CI/CD pipelines tools and services
- Implement common deployment strategies such as "all at once," "rolling," and "blue/green"
- Automate software deployments to Amazon Elastic Compute Cloud (Amazon

EC2), on-premises computes, AWS ECS (Amazon EC2 /AWS Fargate), and AWS Lambda with AWS CodeDeploy

- Automate your release pipelines (build, test, deploy) with AWS CodePipeline
- Monitor an application and environment using AWS tools and technologies

## Who Needs to Attend

- Developers
- DevOps engineers
- SysOps engineers
- DevOps architects
- System administrators

## Prerequisites

We recommend that attendees of this course have the following prerequisites:

- Previous attendance at the System Operations on AWS or Developing on AWS courses
- Working knowledge of one or more high-level programming languages, such as C#, Java, PHP, Ruby, Python
- Intermediate knowledge of administering Linux or Windows systems at the command-line level
- Two or more years of experience provisioning, operating, and managing AWS environments

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CLASSROOM LIVE

\$2,699 CAD

3 Day

## Classroom Live Outline

### Day 1

- Course Overview
- Introduction to DevOps
- Infrastructure Automation
- AWS Toolsets
- Continuous Integration/Continuous Delivery (CI/CD) with Development Tools

### Day 2

- Continuous Integration/Continuous Delivery (CI/CD) with Development Tools
- Introduction to Microservices
- DevOps and Containers
- DevOps and Serverless Computing
- Deployment Strategies
- Automated Testing

### Day 3

- Security Automation
- Configuration Management
- Observability
- Reference architectures

## Classroom Live Labs

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

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VIRTUAL CLASSROOM LIVE

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May 12 - 14, 2025 | 8:30 AM - 4:30 PM EDT

Jul 28 - 30, 2025 | 8:30 AM - 4:30 PM EDT

Sep 15 - 17, 2025 | 8:30 AM - 4:30 PM EDT

Nov 17 - 19, 2025 | 8:30 AM - 4:30 PM EST



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PRIVATE GROUP TRAINING

3 Day

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