



# AWS Certified DevOps Engineer Training Option 2

## About the Course

This course covers industry-recognized and widely used concepts such as Infrastructure-as-Code,

CI/CD pipeline, Immutable Infrastructure, Deployment Strategies, Containers, etc. and how to

implement these principles on the AWS platform using services such as Code-Suite services,

CloudFormation, Elastic Beanstalk, Elastic Container Service etc.

Edureka's AWS-certified DevOps engineer training is aligned with the AWS Certified DevOps Engineer –

The professional course is structured around the six domains outlined in the AWS exam blueprint.

This course will cover the core concepts for each domain, including:

Domain 1: SDLC Automation

Domain 2: Configuration Management and Infrastructure as Code

Domain 3: Monitoring and Logging

Domain 4: Policies and Standards Automation

Domain 5: Incident and Event Response

Domain 6: High Availability, Fault Tolerance, and Disaster Recovery





## Why Learn DevOps with AWS?

DevOps is a software development approach that involves continuous development, integration, testing, deployment and monitoring of software throughout its life cycle.

On the other hand, AWS is leading the pack in cloud computing, which provides many flexible services to build and deliver products reliably and rapidly. So, DevOps with AWS is a potent combination to automate manual tasks, help teams manage complex environments at scale, and enable organisations to serve their customers better and compete more effectively in the market.

Who should go for this training?

The following professionals can go for this course:

System Administrators

Software Developers

Cloud Professionals

Solution Architects

Project Manager

Technical Lead

What are the prerequisites for this Course?

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





- Working knowledge of DevOps and Amazon Web Services
- Familiarity with AWS Development or AWS System Administration
- Working knowledge of one or more high-level programming languages, such as C#, Java, PHP, Ruby, or Python
- Intermediate knowledge of administering Linux or Windows systems at the command-line level
- Working experience with AWS using both the AWS Management Console and the AWS Command Line Interface (AWS CLI)

What are the objectives of our Training?

After completing this course, you will be able to:

Use the principal concepts and practices behind the DevOps methodology

Design and implement an infrastructure on AWS that supports one or more DevOps development projects

Use AWS CloudFormation and AWS OpsWorks to deploy the infrastructure necessary to create development, test, and production environments for a software development project.

Implement several common Continuous Deployment (CD) use cases using AWS technologies, including blue/green deployment and A/B testing.

Distinguish between the array of application deployment technologies available on AWS, including AWS OpsWorks, AWS Elastic Beanstalk, Amazon Elastic Container Service, and Amazon Elastic Container Registry.

Use Amazon EC2 Systems Manager for patch management.

Leverage automated testing in different stages of a CI/CD pipeline



Fine-tune the applications you deliver on AWS for high performance and use AWS tools and technologies to monitor your application and environment for potential issues.



## AWS Certified DevOps Course Curriculum

### Introduction To DevOps On Cloud

**Learning Objectives:** This module introduces you to important aspects of DevOps and Amazon Web Services. Also, you will learn about the security concepts required to manage your account and data on the AWS platform.

#### Topics:

#### Understanding DevOps and its lifecycle

- Why DevOps on Cloud?
- Introduction to AWS
- DevOps using AWS
- Security Management - IAM (Identity and Access Management), WAF (Web Application Firewall),
- AWS Shield, Guard Duty
- Trusted Advisor
- Governance Strategies
- Hands-on:
- Creating Policies for a new user to have all Admin Or Limited Privileges
-  Login AWS Management Console via MFA 



- Trusted Advisor
- Enabling Governance using AWS Config

- Set Alerts and Budget for your AWS Account
- SDLC Automation

### Learning Objectives:

This module will teach you how to automate the Software Development Lifecycle using various AWS development tools.



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