

## DevOps Engineering on AWS

### Overview

DevOps Engineering on AWS covers the core principles of the DevOps methodology and examines a number of use cases applicable to startup, small-medium business, and enterprise development scenarios.

### Prerequisite Comments

Prerequisites for this course include: attending the System Operations on AWS course, attending the Developing on AWS course, working knowledge of one or more high-level programming languages (C#, Java, PHP, Ruby, Python, etc.), 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)

### Target Audience

This course is suitable for System Administrators and Software Developers.

### Course Objectives

Skills learned in this course include:

- 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
- Set up Git on AWS and understand the array of options for enabling a Continuous Integration environment on AWS
- Implement several common Continuous Deployment 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 CodeDeploy, AWS OpsWorks, AWS Elastic Beanstalk, and Amazon EC2 Container Service), and decide which technology best fits a given scenario
- Fine tune the applications you deliver on AWS for high performance

### Course Outline

[Register Online](#)

Schedule

Class Length: 3 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"  
ILT = "Instructor-Led-Training"

*This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.*

### 1 - Day 1

What is DevOps?

Infrastructure as Code; Part 1: Design and Security

Infrastructure as Code; Part 2: CloudFormation and Configuration Management

### 2 - Day 2

Continuous Integration in the Cloud

Continuous Delivery on AWS

Deploying Applications on AWS; Part 1

### 3 - Day 3

Deploying Applications on AWS, Part

Putting It All Together

Performance-Tuning Your Deployments

Administering and Automating Your Infrastructure

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