

## DEVOPS ENGINEERING ON AWS

3-Days Training Duration / Instructor-Led, Classroom-Based Training / Professional Level

### DELIVERY METHODS



#### ILT – Instructor-Led Classroom Training

ILT sessions are conducted in a physical classroom environment.



#### ILO – Instructor-Led Online Training

ILO sessions are conducted via WebEx in a VoIP environment



#### FLEX Classroom™ – Combined ILT & ILO

FLEX Classroom sessions are delivered via ILT and ILO giving you the ultimate flexibility.

### COURSE DESCRIPTION

DevOps Engineering on AWS demonstrates how to use the most common DevOps patterns to develop, deploy, and maintain applications on AWS. The course covers the core principles of the DevOps methodology and examines a number of use cases applicable to startup, small and medium-sized business, and enterprise development scenarios.

### BRING YOUR OWN DEVICE

Please note that this class requires you to bring your own device. Plan to come to class with the following:

- A notebook computer with Wi-Fi (labs cannot be completed on an iPad or tablet device)
- Administrator access to the computer, if Windows
- Chrome, Firefox, or Safari (IE not supported)

### COURSE OBJECTIVES

This course is designed to teach you how 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
- Use AWS CodeCommit and understand the array of options for enabling a Continuous Integration environment on AWS
- Use AWS CodePipeline to design and implement a Continuous Integration and Delivery pipeline 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, Amazon EC2 Container Service, and Amazon EC2 Container Registry), and decide which technology best fits a given scenario
- 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

### INTENDED AUDIENCE

This course is intended for:

- System Administrators
- Software Developers

### Singapore Office

111 Somerset Road #07-07  
Triple One Somerset  
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### Malaysia Office

L28-03-03A, Level 28  
PJ Exchange No 16A Persiaran Barat  
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### PREQUISITES

- Attended Developing on AWS or System Operations 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)

### HANDS-ON ACTIVITY

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

### COURSE OUTLINE

***Note:** Course outline may vary slightly based on the regional location and/or language in which the class is delivered.*

This course covers the following concepts on each day:

#### Day 1

- What is DevOps?
- Infrastructure as Code, Part 1: Design and Security
- Infrastructure as Code, Part 2: CloudFormation and Configuration Management

#### Day 2

- Continuous Integration on AWS
- Continuous Deployment on AWS
- Deploying Applications on AWS, Part 1

#### Day 3

- Deploying Applications on AWS, Part 2
- Continuous Integration and Delivery Pipelines on AWS
- Performance-Tuning Your Deployments
- Administering and Automating Your Infrastructure

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