DevOps Engineering on Amazon Web Services (AWS DevOps)

COURSE OVERVIEW

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-medium business, and enterprise development scenarios.

WHO WILL BENEFIT FROM THIS COURSE?

This course is intended for:

- System Administrators
- Software Developers

PREREQUISITES

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

- Attended System Operations on AWS course
- Attended 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)

COURSE OBJECTIVES

After completing this course, you should 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
- Use AWS CodeCommit and understand the array of options for enabling a Continuous Integration environment on AWS
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- 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

COURSE OUTLINE

Day 1
- Introduction to DevOps
- AWS Command Line Interface
- Introduction to DevSecOps
- Deployment Strategies and Developer Tools

Day 2
- Infrastructure as Code
- Deep Dive into Developer Tools
- Automated Testing on AWS

Day 3
- Configuration Management
- AMI Building and Amazon EC2 Systems Manager
- Containers: Docker and ECS
- Customer Case Studies

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What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

aws partner network

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- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
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- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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