DevOps Engineering on AWS

Kód kurzu: AWSDOE

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.

Pro koho je kurz určen

- System Administrators
- Software Developers

Co Vás naučíme

- 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

Požadované vstupní znalosti

- 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)

Studijní materiály

Amazon Web Services authorized e-book included.

Osnova kurzu

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

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

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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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