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TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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Systems Operations on AWS

Duration: 3 days

In this course, you will learn how to create automatable and repeatable deployments of networks and systems on the AWS platform. We will explore the AWS features and tools related to configuration and deployment and best practices for configuring and deploying systems.

AUDIENCE

This course is intended for:

- Systems administrators
- Software developers, especially those in a DevOps role

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

- [AWS Technical Essentials](#)
- Background in software development or systems administration
- Proficiency maintaining operating systems at the command line, such as shell scripting in Linux environments or cmd/PowerShell in Windows
- Basic knowledge of networking protocols, such as TCP/IP and HTTP

OBJECTIVE

In this course, you will learn how to:

- Use standard AWS infrastructure features such as Amazon Virtual Private Cloud (Amazon VPC), Amazon Elastic Compute Cloud (Amazon EC2), Elastic Load Balancing (ELB), and AWS Auto Scaling from the command line
- Use AWS CloudFormation and other automation technologies to produce stacks of AWS resources
- Build virtual private networks with Amazon VPC
- Deploy Amazon EC2 instances using command line calls and troubleshoot common problems with instances
- Monitor the health of Amazon EC2 instances and other AWS services
- Manage identity, AWS permissions, and security in the AWS Cloud
- Manage resource consumption in an AWS account using tags, Amazon CloudWatch, and AWS Trusted Advisor
- Determine the best strategy for creating reusable Amazon EC2 instances
- Configure a set of Amazon EC2 instances that launch behind a load balancer
- Troubleshoot a basic AWS CloudFormation stack definition

COURSE OUTLINE

This course covers the following concepts:

Day One

- Understanding Systems Operations on AWS
- Tooling and Automation
- Computing (Servers)

- Computing (Scaling and Name Resolution)

Day Two

- Computing (Serverless and Containers)
- Computing (Database Services)
- Networking
- Storing and Archiving

Day Three

- Monitoring and Security
- Managing Resource Consumption
- Creating Automated and Repeatable Deployments