

Systems Operations on AWS



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Course Duration: 3 days

COURSE OVERVIEW

System Operations on AWS is designed to teach those in a Systems Administrator or Developer Operations (DevOps) role how to create automatable and repeatable deployments of networks and systems on the AWS platform. The course covers the specific AWS features and tools related to configuration and deployment, as well as common techniques used throughout the industry for configuring and deploying systems.

TARGET AUDIENCE

This course is intended for System Administrators and Software Developers, especially those in a Developer Operations (DevOps) role

COURSE OBJECTIVES

Use standard AWS infrastructure features such as Amazon Virtual Private Cloud (VPC), Amazon Elastic Compute Cloud (EC2),

Elastic Load Balancing, and Auto Scaling from the command line

Use AWS CloudFormation and other automation technologies to produce stacks of AWS resources that can be deployed in an automated, repeatable fashion

Build functioning virtual private networks with Amazon VPC from the ground up using the AWS Management Console

Deploy Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances

Monitor the health of Amazon EC2 instances and other AWS services

Manage user identity, AWS permissions, and security in the cloud

Manage resource consumption in an AWS account using tools such as Amazon CloudWatch, tagging, and Trusted Advisor

Select and implement the best strategy for creating reusable Amazon EC2 instances

Configure a set of Amazon EC2 instances that launch behind a load balancer, with the system scaling up and down in response to demand

Edit and troubleshoot a basic AWS CloudFormation stack definition

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COURSE CONTENT

Day 1

System Operations on AWS Overview

Networking in the Cloud

Computing in the Cloud

Day 2

Storage and Archiving in the Cloud

Monitoring in the Cloud

Managing Resource Consumption in the Cloud

Day 3

Configuration Management in the Cloud

Creating Scalable Deployments in the Cloud

Creating Automated and Repeatable Deployments

COURSE PREREQUISITES

Attended the AWS Essentials course

Background in either software development or systems administration

Some experience with maintaining operating systems at the command line (shell scripting in Linux environments, cmd or PowerShell in Windows)

Basic knowledge of networking protocols (TCP/IP, HTTP)

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