

## **System Operations on AWS**

### **Description**

This course teaches systems operators and anyone performing system operations functions how to install, configure, automate, monitor, secure, maintain, and troubleshoot the services, networks, and systems on AWS necessary to support business applications. The course also covers specific AWS features, tools, and best practices related to these functions.

### **Course Objectives**

- ❖ 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

### **Pre-Requisite**

- ❖ some experience with maintaining operating systems at command line (shell scripting in Linux environments,cmd or powershell in windows)
- ❖ basic knowledge of networking protocols (TCP/IP,HTTP)
- ❖ \*Aws Technical Essentials
- ❖ \*Aws cloud practitioner Essentials

### **Course Content**

- ❖ System Operations on AWS Overview
- ❖ Networking in the Cloud
- ❖ Computing in the Cloud
- ❖ Storage and Archiving in the Cloud
- ❖ Monitoring in the Cloud
- ❖ Managing Resource Consumption in the Cloud

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- ❖ Configuration Management in the Cloud
- ❖ Creating Scalable Deployments in the Cloud
- ❖ Creating Automated and Repeatable Deployments

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