

---

## Systems Operations on AWS

---

### 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.

---

### Prerequisites

- AWS Technical Essentials

---

### Prerequisite Comments

Prerequisites for this course include: attending 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), and basic knowledge of networking protocols (TCP/IP, HTTP)

---

### Target Audience

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

---

### Course Objectives

Skills gained in this training include:

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

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

---

### Course Outline

### 1 - Day 1

System Operations on AWS Overview  
Networking in the Cloud  
Computing in the Cloud

### 2 - Day 2

Storage and Archiving in the Cloud  
Monitoring in the Cloud  
Managing Resource Consumption in the Cloud

### 3 - Day 3

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

## Related Courses, Certifications, Exams

---

- AWS Technical Essentials
-