

## AWS SysOps Administrator Certification - Associate

### Overview

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Students will attain a deep knowledge of AWS infrastructure and deployment on AWS, and attain skills to pass the AWS Certification Exam.

### Prerequisite Comments

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Some IT industry work experience or a degree in the IT field.  
Some experience with Linux system administration advisable but not required.  
Basic understanding of databases.

### Target Audience

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IT Professionals who want to learn to manage existing AWS infrastructure and to identify performance bottlenecks.  
IT Professionals who want to clear the AWS Certification exam.

### Course Objectives

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To attain a deep knowledge of AWS infrastructure and deployment on AWS.  
To attain skills to clear the AWS Certification Exam.

### Course Outline

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#### 1 - Day 1

Fundamentals of Amazon Web Services (AWS)  
Amazon S3  
Hands-on: S3 Lab; Creating Buckets, objects, and managing access control  
CloudTrail  
Hands-on: Enabling CloudTrail  
Amazon EC2  
Hands-on: Hosting an Application on EC2  
Amazon CloudWatch  
SNS  
Hands on: Setting up CloudWatch Alarm for the hosted Application and get notified via SNS  
Amazon Lambda

## 2 - Day 2

Amazon Relational Database Services (RDS)

Hands-on: Deploying and scaling an application using RDS

Amazon Elastic Load Balancer (ELB)

Hands-on: Scaling the Application using Amazon ELB

Amazon Certificate Manager (ACM)

Auto-Scaling

Hands-on: Deploying an auto-scaling app on the cloud using auto-scaling, EC2, RDS, ELB

Additional Hands-on: Setting Up Notification Based Scaling

## 3 - Day 3

Amazon VPC

Hands-on: Hosting secure applications using public and private subnets

Additional Hands-on: Enabling VPC Flow Logs that Streams to CloudWatch

Identity & Access Management (IAM)

Hands-on: Generating groups, users, access policies and control

CloudFront

Hands-on: Setup CloudFront CDN for an Application

Route 53

Hands-on: Moving an existing domain name to Route53 and configuring multi-location Routing

## 4 - Day 4

Cloud Formation

Hands-on: Generating and Deploying Cloud Formation Templates

AWS Frequently Used Design Patterns

System operations on AWS

Hands-on: Setting up Custom CloudWatch Metric