

# **AWS Monitoring and Management**

**Modality: On Demand**

**Duration: 3 Hours**

## **About this Course:**

This course can cover several purposes around monitoring resources using Cloudwatch and also using other resources. The course also covers in detail Domain 3.0 of AWS System Operations Exam. So if your thinking of taking the hardest Associate exam this will certainly help in Domain 3.0.

3 Domain 3.0: Analysis

3.1 Optimize the environment to ensure maximum performance

3.2 Identify performance bottlenecks and implement remedies

3.3 Identify potential issues on a given application deployment

Amazon CloudWatch is a monitoring service for AWS cloud resources and the applications you run on AWS. You can use Amazon CloudWatch to collect and track metrics, collect and monitor log files, set alarms, and automatically react to changes in your AWS resources. Amazon CloudWatch can monitor AWS resources such as Amazon EC2 instances, Amazon DynamoDB tables, and Amazon RDS DB instances, as well as custom metrics generated by your applications and services, and any log files your applications generate. You can use Amazon CloudWatch to gain system-wide visibility into resource utilization, application performance, and operational health. You can use these insights to react and keep your application running smoothly

## **Course Objectives:**

- Optimize the environment to ensure maximum performance
- Identify performance bottlenecks and implement solutions.
- Identify potential issues on a given application deployment
- Students will gain significant insight into the exam and also over 40 Test Tips

## **Audiences:**

- AWS Professional Intermediate level
- AWS New User
- Someone studying for AWS SysOps Exam

## **Prerequisites:**

- Someone new to AWS
- Someone with under 1 year of AWS Systems Operations Experience

## **Course Outline:**

## Introduction

- AWS Course Monitoring Overview
- Preview
- Introduction to AWS Sysops Exam (For those interested)
- Preview
- Course Material Download

## Cloudwatch

- Cloudwatch Overview
- Preview
- Cloudwatch Demo
- Preview
- Cloudwatch Roles Demo
- Cloudwatch Logging Overview

## AWS Resource Management

- EC2
- AWS Spot Instance
- AWS VPC
- EBS Instances
- S3 Buckets
- Application Monitoring
- Elastic Beanstalk Monitoring
- SNS Messaging
- Event Customization
- Centralizing Resource Management
- Dashboards
- Dashboard Events
- Event Driven Monitoring
- Billing Alerts
- Elastic Load Balancer
- Security Groups
- Trusted Adviser Can Help
- RDS Monitoring
- Autoscaling
- Best Practices
- Route 53
- AWS Compliance

## 3rd Party Tools

- Rightscale Cloud Comparison Tool
- Rightscale Platform

## Bonus Lecture - Comparing AWS to GCP Certifications

- Comparing AWS to GCP Certifications