

# **AWS Monitoring and Management**

**Modality: Self-Paced Learning**

**Duration: 3 Hours**

## **About this Course:**

This course is designed to explain the technologies , purposes and resources for monitoring using Cloudwatch and others.

Cloud watch by Amazon is a monitoring tool for the AWS cloud and AWS applications. Amazon Cloud watch can help to assemble and keep a track of metrics, gather and monitor logs, set up alarms, and setup automatic reactions to changes in AWS resources. Additionally, Amazon Cloud watch can also be used to keep track of other AWS resources like the Amazon EC2 instances, Amazon DynamoDB tables and Amazon RDS DB instances. Moreover, it can also be used to monitor custom metrics and log files generated by your applications and services. Amazon cloud watch can also help you to gain insights into the entire system, the resources being used, performance of the application and the health of the operations. These insights may be used to improve applications and ensure their smooth running.

This course also provides an extensive overview of Domain 3.0 of the AWS Systems operations exam. The said exam is considered to be the most rigorous associate exam and this course can help you prepare for domain 3.0 of the exam.

This course consists of ;

### 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

## **Course Objective:**

Upon completion of this course, the participant should have an advanced skill set and a sound working knowledge of the following principals while also be able to;

- Learn how to skillfully optimize environments for maximized performance.
- Learn how to recognize performance barriers and design solutions and implement them
- Learn how to identify potential problems which may arise in any particular application.
- Learn how to prepare for the exam
- Learn how to improve preparation by the use of 40 test tips

## **Audience:**

## **This particular course is aimed at the following audience;**

- Those AWS Professionals who are working at an intermediate level
- New Users of AWS
- Those who are preparing for the AWS System Ops Exam

## **Prerequisites:**

The following prerequisites are absolutely necessary to be eligible to take this course. The participants should have either completed the following course or have knowledge equivalent to the following

- Someone completely new to AWS can also attempt this course.
- Those with less than 1 year of experience with AWS system operations.

## **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