COURSE OVERVIEW

Course Name:
Cloud Operations on AWS
(Formerly Systems Operations on AWS)

COURSE DURATION: 3 Days

Gauteng:
3rd Floor, 34 Whitely Road
Melrose Arch
Johannesburg
2196

Gauteng:
192 on Bram
192 Bram Fischer Drive
Ferndale, Randburg
Johannesburg
2160

Cape Town:
3rd Floor, Thomas Pattullo Building
19 Jan Smuts St
Cape Town
8000

Durban:
9 Mountview Close
Broadlands
Mount Edgecombe
Durban
4302

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INTRODUCTION

This course teaches systems operators and anyone performing cloud operations functions how to manage and operate automatable and repeatable deployments of networks and systems on AWS. You will learn about cloud operations functions, such as installing, configuring, automating, monitoring, securing,
maintaining, and troubleshooting these services, networks, and systems.

The course also covers specific AWS features, tools, and best practices related to these functions.

INTENDED AUDIENCE

This course is intended for:

- System administrators and operators who are operating in the AWS Cloud.
- Informational technology workers who want to increase their cloud operations knowledge.

DELIVERY METHOD

Our courses have flexible delivery options:

- In-person classroom training at the Impactful training facilities
  - Johannesburg, Durban, Cape Town
- Virtual instructor-led training
- Nationally: on-site at the client

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PREREQUISITES

We recommend that attendees of this course have the following prerequisites:

- Successfully completed the AWS Technical Essentials course
- Background in either software development or systems administration
- Proficiency in maintaining operating systems at the command line, such as shell scripting in Linux environments or cmd/ PowerShell in Windows
- Basic knowledge of networking protocols (TCP/IP, HTTP)

COURSE OBJECTIVES

In this course, you will learn how to:

- Identify the AWS services that support the different phases of Operational Excellence, an AWS Well-Architected Framework pillar.
- Manage access to AWS resources using AWS accounts and organizations and AWS Identity and Access Management (IAM).
- Maintain an inventory of in-use AWS resources by using AWS services, such as AWS Systems Manager, AWS CloudTrail, and AWS Config.
- Develop a resource deployment strategy using metadata tags, Amazon Machine Images (AMIs), and AWS Control Tower to deploy and maintain an AWS cloud environment.
- Automate resource deployment by using AWS services, such as AWS CloudFormation and AWS Service Catalog.
- Use AWS services to manage AWS resources through CloudOps lifecycle processes, such as deployments and patches.
- Configure a highly available cloud environment that uses AWS services, such as Amazon Route 53 and Elastic Load Balancing, to route traffic for optimal latency and performance.
- Configure AWS Auto Scaling and Amazon EC2 Auto Scaling to scale out your cloud environment based on demand.
- Use Amazon CloudWatch and associated features, such as alarms, dashboards, and widgets, to monitor your cloud environment.
- Manage permissions and track activity in your cloud environment by using AWS services, such as AWS CloudTrail and AWS Config.
- Deploy your resources to an Amazon Virtual Private Cloud (Amazon VPC), establish necessary connectivity to your Amazon VPC, and protect your resources from disruptions of service.
- State the purpose, benefits, and appropriate use cases for mountable storage in your AWS Cloud Environment.

COURSE CONTENT

- Module 1: Introduction to Cloud Operations on AWS
- Module 2: Access Management
- Module 3: System Discovery
- Module 4: Deploy and Update Resources
- Module 5: Automate Resource Deployment
- Module 6: Manage Resources
- Module 7: Configure Highly Available Systems
- Module 8: Automate Scaling
- Module 9: Monitor and Maintain System Health
- Module 10: Data Security and System Auditing
- Module 11: Operate Secure and Resilient Networks
- Module 12: Mountable Storage
- Module 13: Object Storage
- Module 14: Cost Reporting, Alerts, and Optimization