

AWSC-6 - CLOUD OPERATIONS ON AWS

Categoria: Amazon Web Services

INFORMAZIONI SUL CORSO

Y

555

Durata: 3 Giorni

Categoria: Amazon Web Services Qualifica Istruttore: Docente Senior (min. 5 anni) Dedicato a: Professionista IT Produttore: PCSNET

OBIETTIVI

In this course, you will learn 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
- -Explain the operational characteristics of object storage in the AWS Cloud, including Amazon Simple Storage Service (Amazon S3) and Amazon S3 Glacier
- -Build a comprehensive cost model to help gather, optimize, and predict your cloud costs by using services such as AWS Cost Explorer and the AWS Cost & Usage Report

PREREQUISITI

We recommend that attendees of this course have:

-Successfully completed the AWS Technical Essentials course



- -A background in 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)

CONTENUTI

Module 1: Introduction to Cloud Operations on AWS

- -What is Cloud Operations
- -AWS Well-Architected Framework
- -AWS Well-Architected Tool

Module 2: Access Management

- -AWS Identity and Access Management (IAM)
- -Resources, accounts, and AWS Organizations

Module 3: System Discovery

- -Methods to interact with AWS services
- -Tools for automating resource discovery
- -Inventory with AWS Systems Manager and AWS Config
- -Hands-On Lab: Auditing AWS Resources with AWS Systems Manager and AWS Config

Module 4: Deploy and Update Resources

- -Cloud Operations in deployments
- -Tagging strategies
- -Deployment using Amazon Machine Images (AMIs)
- -Deployment using AWS Control Tower

Module 5: Automate Resource Deployment

- -Deployment using AWS CloudFormation
- -Deployment using AWS Service Catalog
- -Hands-On Lab: Infrastructure as Code

Module 6: Manage Resources

- -AWS Systems Manager
- -Hands-On Lab: Operations as Code

Module 7: Configure Highly Available Systems

- -Distributing traffic with Elastic Load Balancing
- -Amazon Route 53

Module 8: Automate Scaling

- -Scaling with AWS Auto Scaling
- -Scaling with Spot Instances
- -Managing licenses with AWS License Manager

Module 9: Monitor and Maintain System Health

- -Monitoring and maintaining healthy workloads
- -Monitoring AWS infrastructure



- -Monitoring applications
- -Hands-On Lab: Monitor Applications and Infrastructure

Module 10: Data Security and System Auditing

- -Maintaining a strong identity and access foundation
- -Implementing detection mechanisms
- -Automating incident remediation

Module 11: Operate Secure and Resilient Networks

- -Building a secure Amazon Virtual Private Cloud (Amazon VPC)
- -Networking beyond the VPC

Module 12: Mountable Storage

- -Configuring Amazon Elastic Block Store (Amazon EBS)
- -Sizing Amazon EBS volumes for performance
- -Using Amazon EBS snapshots
- -Using Amazon Data Lifecycle Manager to manage your AWS resources
- -Creating backup and data recovery plans
- -Configuring shared file system storage
- -Hands-On Lab: Automating with AWS Backup for Archiving and Recovery

Module 13: Object Storage

- -Deploying Amazon Simple Storage Service (Amazon S3)
- -Managing storage lifecycles on Amazon S3

Module 14: Cost Reporting, Alerts, and Optimization

- -Gaining AWS cost awareness
- -Using control mechanisms for cost management
- -Optimizing your AWS spend and usage
- -Hands-On Lab: Capstone lab for CloudOps

INFO

Esame: SOA-C03 - AWS Certified CloudOps Engineer Associate

Materiale didattico: Materiale didattico in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)