

AWSC-6 - SYSTEMS OPERATIONS ON AWS

Categoria: Amazon Web Services

INFORMAZIONI SUL CORSO



Durata:
3 Giorni



Categoria:
Amazon Web
Services



Qualifica Istruttore:
AWS Authorized
Instructor



Dedicato a:
Professionista IT



Produttore:
AWS

OBIETTIVI

This course is designed to teach you how to:

- Understand the AWS infrastructures as it relates to system operations such as the global infrastructure, core services and account security
- Use the AWS Command Line Interface, and understand additional administration and development tools Manage, secure, and scale compute instances on AWS
- Identify container services and services available for serverless computing
- Build virtual private networks with Amazon VPC
- Configure and manage storage options utilizing the storage services offered with AWS
- Monitor the health of your infrastructure with services such as Amazon CloudWatch, AWS CloudTrail and AWS Config
- Manage resource consumption in an AWS account using tags, Amazon CloudWatch, and AWS Trusted Advisor
- Create and configure automated and repeatable deployments with tools such as AMIs and AWS CloudFormation

PREREQUISITI

We recommend that attendees of this course have:

- Successfully completed the AWS Technical Essentials classroom training
- A 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)

CONTENUTI

Module 1: Understanding systems operations on AWS

- Systems operations in the Cloud
- AWS Global Infrastructure
- Introduction to core services
- AWS Account Security
- AWS Identity and Access Management (IAM)
- Demonstration: Deploying a website

Module 2: Tooling and Automation

- AWS Command Line Interface (CLI)
- AWS System Manager
- Additional administration and development tools
- AWS Software Development Kit (SDK)
- AWS Cloud Formation
- AWS OpsWorks
- Hands-on lab 1: Using AWS System Manager

Module 3: Computing (Servers)

- Computing on AWS
- Managing your AWS instances
- Securing your AWS instances
- AWS EC2 instance pricing
- Hands-on lab 2: Creating Amazon EC2 instances

Module 4: Computing (scaling and name resolution)

- Elastic load balancing
- Amazon EC2 Auto Scaling
- Amazon Route 53
- Hands-on lab 3: Using Auto Scaling in AWS

Module 5: Computing (Containers and Serverless)

- Containers on AWS
- AWS Lambda
- Amazon API Gateway
- AWS Batch

Module 6: Computing (Database Services)

- Amazon Relational Database Service (Amazon RDS)
- Amazon Aurora
- Amazon DynamoDB
- AWS Database Migration Services

Module 7: Networking

- Networking and Amazon Virtual Private Cloud (VPC)
- Securing your network
- Troubleshooting networks in AWS
- Hands-on lab 4: Configuring a Virtual Private Cloud (Windows & Linux)

Module 8: Storage and archiving

- Amazon Elastic Block Store (Amazon EBS)
- Amazon S3
- Amazon Elastic File System (Amazon EFS)
- Amazon Simple Storage Services (Amazon S3)
- Amazon S3 Glacier
- AWS Snowball
- Hands-on lab 5: Managing Storage in AWS (Windows & Linux)

Module 9: Monitoring and security

- Amazon CloudWatch-Monitoring, Events, Logging
- AWS Cloud Trail
- AWS Configuration
- Amazon GuardDuty
- Hands-on lab 6: Monitoring your application and infrastructure with CloudWatch

Module 10: Managing resource consumption

- Tagging
- Cost reduction opportunities in the cloud
- Cost monitoring and billing alarms
- AWS Trusted Advisor
- Hands-on lab 7: Managing resources with tagging

Module 11: Creating automated and repeatable deployments

- Configuration management in the cloud
- Creating AMIs and building strategies
- Using configuration software
- AWS Cloud Formation
- Troubleshooting AWS Cloud Formation templates
- Hands-on lab 8: Automating deployments with Cloud Formation

INFO

Esame: SOA-C02 - AWS Certified SysOps Administrator Associate

Materiale didattico: Materiale didattico ufficiale AWS in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)