

# AWSC-4 - ARCHITECTING ON AWS

Categoria: Amazon Web Services

## INFORMAZIONI SUL CORSO



Durata:  
3 Giorni



Categoria:  
Amazon Web  
Services



Qualifica Istruttore:  
AWS Authorized  
Instructor



Dedicato a:  
Analista



Produttore:  
AWS

## OBIETTIVI

In this course, you will learn to:

- Identify AWS architecting basic practices
- Summarize the fundamentals of account security
- Identify strategies to build a secure virtual network that includes private and public subnets
- Practice building a multi-tier architecture in AWS
- Identify strategies to select the appropriate compute resources based on business use cases
- Compare and contrast AWS storage products and services based on business scenarios
- Compare and contrast AWS database services based on business needs
- Identify the role of monitoring, load balancing, and auto scaling responses based on business needs
- Identify and discuss AWS automation tools that will help you build, maintain, and evolve your infrastructure
- Discuss hybrid networking, network peering, and gateway and routing solutions to extend and secure your infrastructure
- Explore AWS container services for the rapid implementation of an infrastructure-agnostic, portable application environment
- Identify the business and security benefits of AWS serverless services based on business examples
- Discuss the ways in which AWS edge services address latency and security
- Explore AWS backup, recovery solutions, and best practices to ensure resiliency and business continuity

## PREREQUISITI

We recommend that attendees of this course have:

- Completed AWS Cloud Practitioner Essentials, or AWS Technical Essentials
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Familiarity with IP addressing
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

## CONTENUTI

### Module 1: Architecting Fundamentals

- AWS services
- AWS infrastructure
- AWS Well-Architected Framework
- Hands-on lab: Explore and interact with the AWS Management Console and AWS Command Line Interface

## **Module 2: Account Security**

- Principals and identities
- Security policies
- Managing multiple accounts

## **Module 3: Networking 1**

- IP addressing
- VPC fundamentals
- VPC traffic security

## **Module 4: Compute**

- Compute services
- EC2 instances
- Storage for EC2 instances
- Amazon EC2 pricing options
- AWS Lambda
- Hands-On Lab: Build your Amazon VPC infrastructure

## **Module 5: Storage**

- Storage services
- Amazon S3
- Shared file systems
- Data migration tools

## **Module 6: Database Services**

- Database services
- Amazon RDS
- Amazon DynamoDB
- Database caching
- Database migration tools
- Hands-on Lab: Create a database layer in your Amazon VPC infrastructure

## **Module 7: Monitoring and Scaling**

- Monitoring
- Alarms and events
- Load balancing
- Auto scaling
- Hands-on Lab: Configure high availability in your Amazon VPC

## **Module 8: Automation**

- AWS CloudFormation
- Infrastructure management

## **Module 9: Containers**

- Microservices
- Containers
- Container services

#### **Module 10: Networking 2**

- VPC endpoints
- VPC peering
- Hybrid networking
- AWS Transit Gateway

#### **Module 11: Serverless**

- What is serverless?
- Amazon API Gateway
- Amazon SQS
- Amazon SNS
- Amazon Kinesis
- AWS Step Functions
- Hands-on Lab: Build a serverless architecture

#### **Module 12: Edge Services**

- Edge fundamentals
- Amazon Route 53
- Amazon CloudFront
- DDoS protection
- AWS Outposts
- Hands-On Lab: Configure an Amazon CloudFront distribution with an Amazon S3 origin

#### **Module 13: Backup and Recovery**

- Disaster planning
- AWS Backup
- Recovery strategies
- Hands-on Lab: Capstone lab – Build an AWS Multi-Tier architecture. Participants review the concepts and services learned in class and build a solution based on a scenario. The lab environment provides partial solutions to promote analysis and reflection. Participants deploy a highly available architecture. The instructor is available for consultation.

## INFO

**Esame:** SAA-C03 - AWS Certified Solutions Architect 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)