

AWSC-4 - ARCHITECTING ON AWS

Categoria: Amazon Web Services

INFORMAZIONI SUL CORSO

abla

£55

Durata: 3 Giorni

Categoria: Amazon Web Services Qualifica Istruttore:
Docente Senior (min.
5 anni)

Dedicato a: Analista Produttore: PCSNET

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



- -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)