AWSC-4 - ARCHITECTING ON AWS

Categoria: **Amazon Web Services**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	Amazon Web Services	Docente Senior (min. 5 anni)	Analista	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

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)