pcsnet

AWSC-9 - ADVANCED DEVELOPING ON AWS
Categoria: **Amazon Web Services**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	Amazon Web Services	AWS Authorized Instructor	Sviluppatore	AWS

OBIETTIVI

In this course, you will learn how to:
- Analyze a monolithic application architecture to determine logical or programmatic break points where the application can be broken up across different AWS services
- Apply Twelve-Factor Application manifesto concepts and steps while migrating from a monolithic architecture
- Recommend the appropriate AWS services to develop a microservices based cloud-native application
- Use the AWS API, CLI, and SDKs to monitor and manage AWS services
- Migrate a monolithic application to a microservices application using the 6 Rs of migration
- Explain the SysOps and DevOps interdependencies necessary to deploy a microservices application in AWS

PREREQUISITI

We recommend that attendees of this course have:
- In-depth knowledge of at least one high-level programming language
- Working knowledge of core AWS services and public cloud implementation
- Completion of the Developing on AWS classroom training , and then a minimum of 6 months of application of those concepts in a real world environment

CONTENUTI

Module 1: The cloud journey
- Common off-cloud architecture
- Introduction to Cloud Air
- Monolithic architecture
- Migration to the cloud
- Guardrails
- The six R's of migration
- The Twelve-Factor Application Methodology
- Architectural styles and patterns
- Overview of AWS Services
- Interfacing with AWS Services
- Authentication

-Infrastructure as code and Elastic Beanstalk

-Demonstration: Walk through creating base infrastructure with AWS CloudFormation in the AWS

-console

-Hands-on lab 1: Deploy your monolith application using AWS Elastic Beanstalk

Module 2: Gaining Agility

-DevOps

-CI/CD

-Application configuration

-Secrets management

-CI/CD Services in AWS

-Demonstration: Demo AWS Secrets Manager

Module 3: Monolith to MicroServices

-Microservices

-Serverless

-A look at Cloud Air

-Microservices using Lambda and API Gateway

-SAM

-Strangling the Monolith

-Hands-on lab: Using AWS Lambda to develop microservices

Module 4: Polyglot Persistence & Distributed Complexity

-Polyglot persistence

-DynamoDB best practices

-Distributed complexity

-Steps functions

-Day Three

Module 5: Resilience and Scale

-Decentralized data stores

-Amazon SQS

-Amazon SNS

-Amazon Kinesis Streams

-AWS IoT Message Broker

-Serverless event bus

-Event sourcing and CQRS

-Designing for resilience in the cloud

-Hands-on lab: Exploring the AWS messaging options

Module 6: Security and Observability

-Serverless Compute with AWS Lambda

-Authentication with Amazon Cognito

-Debugging and traceability

-Hands-on lab: Developing microservices on AWS

INFO

Esame: DOP-C01 - AWS Certified DevOps Engineer Professional

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)