AWSC-11 - PLANNING AND DESIGNING DATABASES ON AWS

Categoria: **Amazon Web Services**

INFORMAZIONI SUL CORSO

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

OBIETTIVI

This course is designed to teach you how to:

-Apply database concepts, database management, and data modeling techniques
-Evaluate hosting databases on Amazon EC2 instances
-Evaluate relational AWS database services and their features (Amazon RDS, Amazon Aurora, and
-Amazon Redshift)
-Evaluate nonrelational AWS database services and their features (Amazon DocumentDB, Amazon
-DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB)
-Examine how the design criteria apply to each service
-Apply management principles based on the unique features of each service

PREREQUISITI

We recommend that attendees of this course have:

-Familiarity with AWS Database Services, equivalent to AWS Database Offerings digital training
-Understanding of database design concepts, and/or data modeling for relational or nonrelational databases
-Familiarity with cloud computing concepts
-Familiarity with general networking and encryption concepts
-Understanding of the three V’s of data (volume, velocity, and variety)
-Familiarity with basic data analytics concepts, equivalent to Data Analytics Fundamentals digital training
-Understanding of general architecting best practices and the AWS Well-Architected Framework, equivalent to Architecting on AWS classroom training

CONTENUTI

Module 1: Database concepts and general guidelines

-Databases in the cloud
-Database design principles
-Transactional compliance

Module 2: Database planning and design

-Workload requirements
-Design considerations

Module 3: Databases on Amazon EC2
-Amazon EC2 for hosting databases

Module 4: Purpose-built databases databases on Amazon EC2 and Amazon RDS
-The journey to AWS
-Data modeling basics

Module 5: Amazon RDS
-Amazon RDS overview
-Amazon RDS distinguishing features
-Amazon RDS design considerations
-Hands-on Lab: working with Amazon RDS databases

Module 6: Amazon Aurora
-Amazon Aurora overview
-Amazon Aurora distinguishing features
-Amazon Aurora design considerations
-Hands-on Lab: working with Amazon Aurora databases

Module 7: Amazon DocumentDB (with MongoDB compatibility)
-Amazon DocumentDB overview
-Amazon DocumentDB design considerations
-Amazon DocumentDB distinguishing features
-Hands-on Lab: working with Amazon DocumentDB databases

Module 8: Amazon DynamoDB
-Amazon DynamoDB overview
-Amazon DynamoDB data modeling
-Amazon DynamoDB distinguishing features
-Amazon DynamoDB design considerations
-Hands-on Lab: working with Amazon DynamoDB

Module 9: Databases in Amazon Neptune
-Amazon Neptune overview
-Amazon Neptune design considerations

Module 10: Databases in Amazon Quantum Ledger Database (Amazon QLDB)
-Amazon QLDB overview
-Amazon QLDB Design Considerations

Module 11: Databases in Amazon ElastiCache
-Amazon ElastiCache overview
-Amazon ElastiCache for Memcached
-Amazon ElastiCache for Redis

Module 12: Data warehousing in Amazon Redshift
-Amazon Redshift overview

-Amazon Redshift distinguishing features
-Amazon Redshift data modeling
-Amazon Redshift design considerations
-Hands-on Lab: working with Amazon Redshift Clusters

INFO

Esame: DBS-C01 - AWS Certified Database Specialty
Manuale: Materiale didattico ufficiale AWS in formato digitale
Prezzo manuale: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)