

# AWSC-11 - PLANNING AND DESIGNING DATABASES ON AWS

Categoria: Amazon Web Services

## INFORMAZIONI SUL CORSO



Durata:  
3 Giorni



Categoria:  
Amazon Web  
Services



Qualifica Istruttore:  
AWS Authorized  
Instructor



Dedicato a:  
Professionista IT



Produttore:  
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 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

**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)