

## Planning and Designing Databases on AWS (AWSPDD)

- **Formato do curso:** Presencial e Live Training
- **Preço:** 1730€
- **Duração:** 21 horas

In this course, you will learn about the process of planning and designing both relational and nonrelational AWS databases.

It will teach you how to use workload requirements to define database design considerations and also explore the features and capabilities of the eight AWS database services. By the end of the course, you will be able to determine which AWS database service is right for your workloads, and design the database to meet your requirements.

### Destinatários

- Data Engineers who are new to designing cloud databases or nonrelational databases
- Solutions Architects who are designing services or architectures that are integrated with databases
- Developers that are building cloud database-enabled applications

### Pré-requisitos

We recommend that attendees of this course have:

- Familiarity with AWS Database Services
- 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
- Understanding of general architecting best practices and the AWS Well-Architected Framework, equivalent to [Architecting on AWS classroom training](#)

# Objetivos

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
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## Programa

### **Database concepts and general guidelines**

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

### **Database planning and design**

- Workload requirements
- Design considerations

### **Databases on Amazon EC2**

- Amazon EC2 for hosting databases

### **Purpose-built databases on Amazon EC2 and Amazon RDS**

- The journey to AWS
- Data modeling basics

### **Amazon RDS**

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

### **Amazon Aurora**

- Amazon Aurora overview
- Amazon Aurora distinguishing features
- Amazon Aurora design considerations

- Hands-on Lab: working with Amazon Aurora databases

### **Amazon DocumentDB (with MongoDB compatibility)**

- Amazon DocumentDB overview
- Amazon DocumentDB design considerations
- Amazon DocumentDB distinguishing features
- Hands-on Lab: working with Amazon DocumentDB databases

### **Amazon DynamoDB**

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

### **Databases in Amazon Neptune**

- Amazon Neptune overview
- Amazon Neptune design considerations

### **Databases in Amazon Quantum Ledger Database (Amazon QLDB)**

- Amazon QLDB overview
- Amazon QLDB Design Considerations

### **Databases in Amazon ElastiCache**

- Amazon ElastiCache overview
- Amazon ElastiCache for Memcached
- Amazon ElastiCache for Redis

### **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

### **Course Overview**

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