



# AWS CERTIFIED DATABASE-SPECIALTY (PLANNING AND DESIGNING DATABASES ON AWS) CERTIFICATION TRAINING

Course Level:  
**Intermediate**

Course Duration:  
**3 Days**

## Course Overview:

This AWS Certified Database Specialty certification training course from CloudThat teaches candidates about the process of planning and designing both relational and nonrelational databases. Candidates attending AWS Database certification course learn the design considerations for hosting databases on Amazon Elastic Compute Cloud (Amazon EC2). You will learn about our relational database services including Amazon Relational Database Service (Amazon RDS), Amazon Aurora, and Amazon Redshift.

This AWS Database Specialty certification also provides candidates with an in-depth understanding of nonrelational database services including Amazon DocumentDB, Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB.

By the end of this DBS-C01 certification course, you will be familiar with the planning and design requirements of all 8 of these AWS databases services, their pros and cons, and how to know which AWS databases service is right for your workloads. This course includes presentations, demonstrations, group exercises, and hands-on labs.



# Prerequisites

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We recommend that attendees of this course have:

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

# Objectives

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Apply database concepts, database management, and data modeling techniques



Evaluate hosting databases on Amazon EC2 instances



Evaluate relational database services (Amazon RDS, Amazon Aurora, and Amazon Redshift) and their features



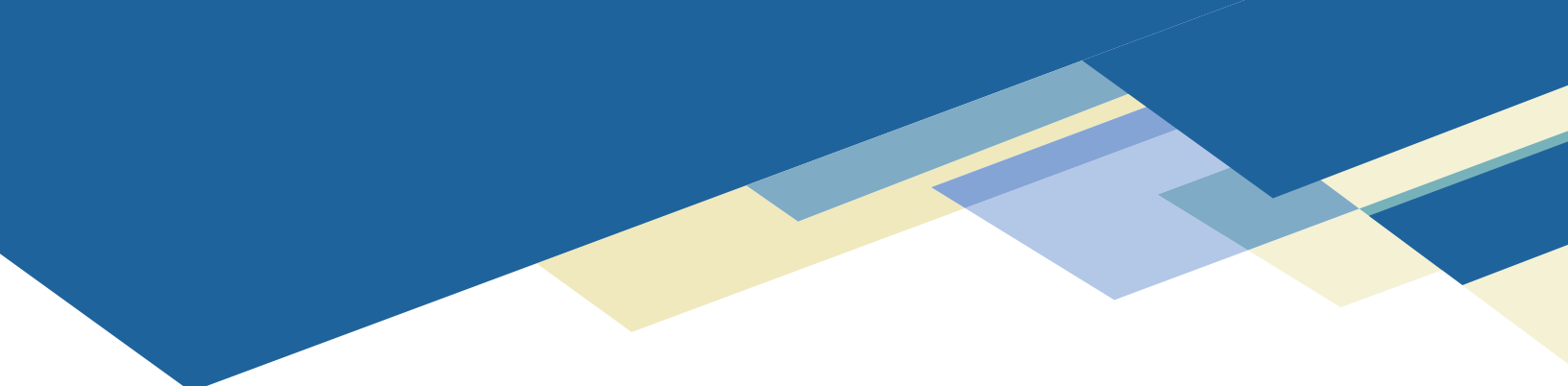
Evaluate nonrelational database services (Amazon DocumentDB, Amazon DynamoDB, Amazon ElastiCache, Amazon Neptune, and Amazon QLDB) and their features



Examine how the design criteria apply to each service



Apply management principles based on the unique features of each service



Attend Any 5 AWS Certification Trainings at the cost of 2 with AWS Mastery Pass!

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## Course Outline

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### Day 1


#### Module 0: Planning and Designing Databases on AWS

- Pre-assessment

#### 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
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## Module 3: Databases on Amazon EC2

- Amazon EC2 for hosting databases

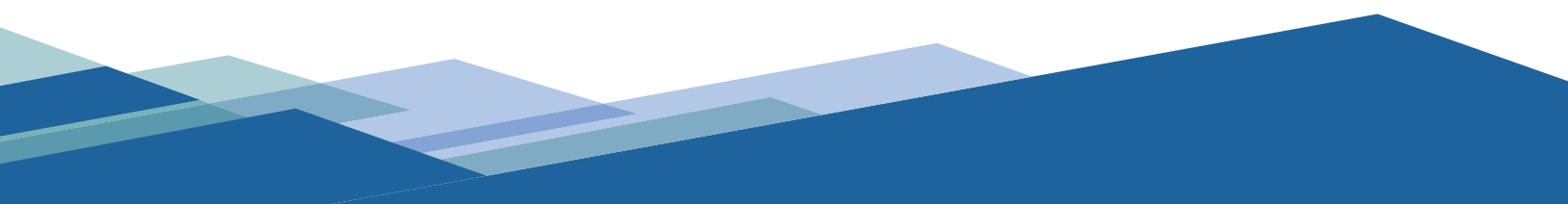
## Module 4: Purpose-Built Databases

- The journey to AWS
- Data modeling basics

## Module 5: Databases on Amazon RDS

- Amazon RDS databases
- Amazon RDS distinguishing features
- Amazon RDS Design considerations
- Lab 1: Working with Amazon RDS databases

## Module 6: Databases in Amazon Aurora

- Amazon Aurora databases
  - Aurora distinguishing features
  - Aurora design considerations
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## Day 2

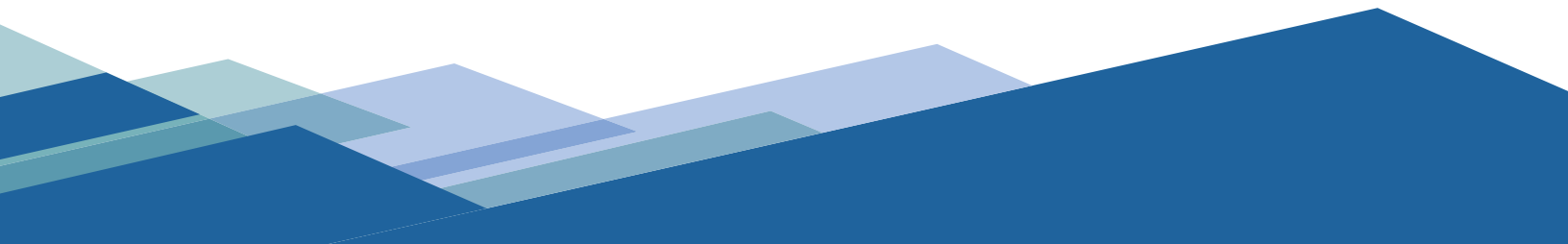
### Module 6: Databases in Amazon Aurora (continued)

- Lab 2: Working with Amazon Aurora databases

### Module 7: Databases in Amazon DocumentDB (with MongoDB compatibility)

- Amazon DocumentDB
- Amazon DocumentDB design considerations
- Lab 3: Working with Amazon DocumentDB databases

### Module 8: Amazon DynamoDB Tables

- Amazon DynamoDB
  - DynamoDB data modeling
  - DynamoDB distinguishing features
  - DynamoDB design considerations
  - Lab 4: Working with Amazon DynamoDB Tables
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## Day 3

### Module 9: Databases in Amazon Neptune

- Amazon Neptune
- Neptune design considerations


### Module 10: Databases in Amazon Quantum Ledger Database (Amazon QLDB)

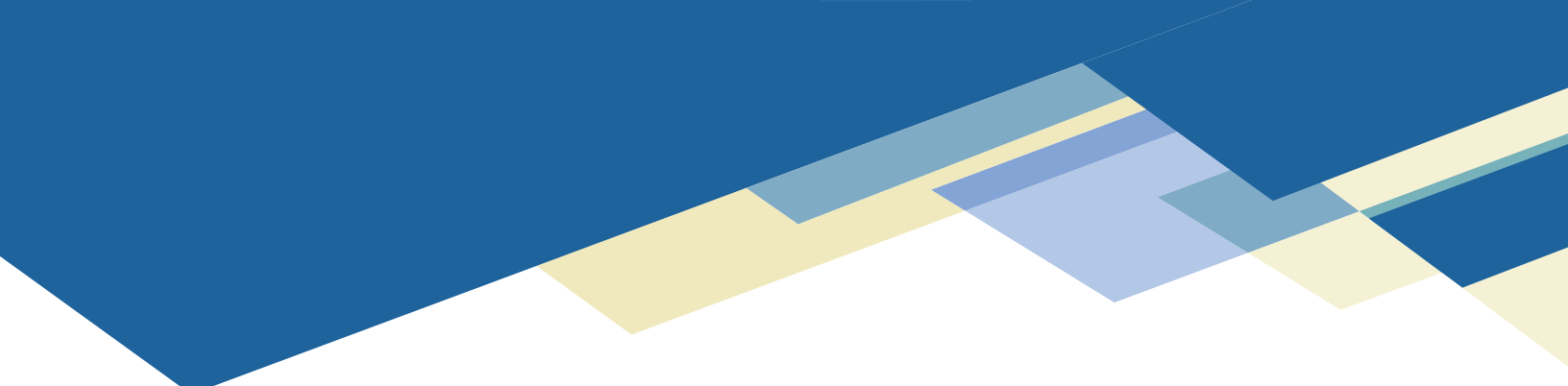
- Amazon Quantum Ledger Database (Amazon QLDB)
- Amazon QLDB Design Considerations

### Module 11: Databases in Amazon ElastiCache

- Amazon ElastiCache
- ElastiCache for Memcached
- ElastiCache for Redis

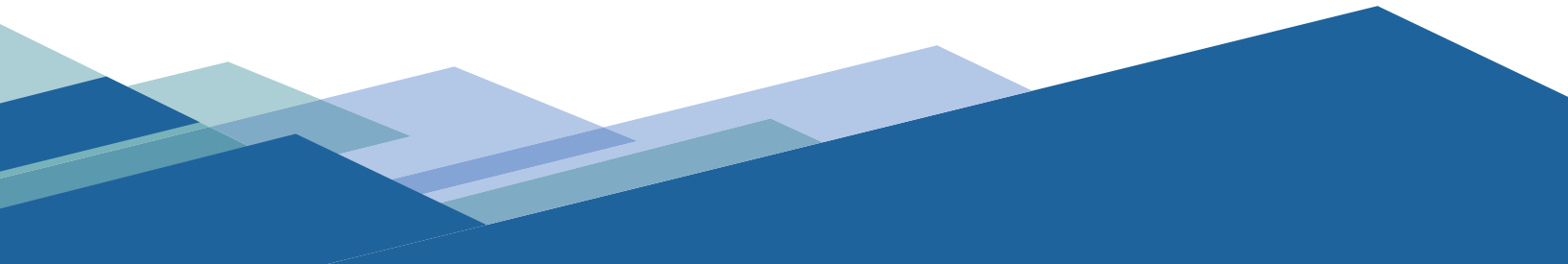
### Module 12: Data Warehousing in Amazon Redshift

- Amazon Redshift
  - Amazon Redshift distinguishing features
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- Amazon Redshift data modeling
  - Amazon Redshift design considerations
  - Lab 5: Working with Amazon Redshift Clusters

## Module 13: Course Review

# Who Should Attend

- 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
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## About CloudThat

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CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K IT professionals from fortune 500 companies on technologies such as Microsoft Azure, Amazon Web Services, VMware, Artificial Intelligence, Machine Learning, Google Cloud, IoT, Dynamics 365, Power Platform, Power BI, HPE AI, DevOps, Big Data, Kubernetes, Terraform and more.

With expertise in all the major Cloud platforms, CloudThat is a proud Microsoft Gold Partner, AWS Authorized Training Partner, VMware Authorized Training Reseller, Google Cloud Platform Partner and HPE Learning Partner. Through sheer dedication and commitment towards customer excellence, we have been the winner of the Microsoft Asia Superstar Campaign for India – 2021 as well as recognized as the winner of Microsoft Learning Partner of the Year 2021 Finalist award. Recently, we have been recognized as the Microsoft 2022 Partner of the Year Finalist - Learning Award.

## Our Success Track

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11+ Years  
of Experience

100+  
Corporates served

28+  
countries catered

650K+  
Professionals trained

300+  
Projects delivered

500+  
Cloud certifications

To know more about our VMware certification training, email at [sales@cloudthat.com](mailto:sales@cloudthat.com) or call us at **+918880002200**.

