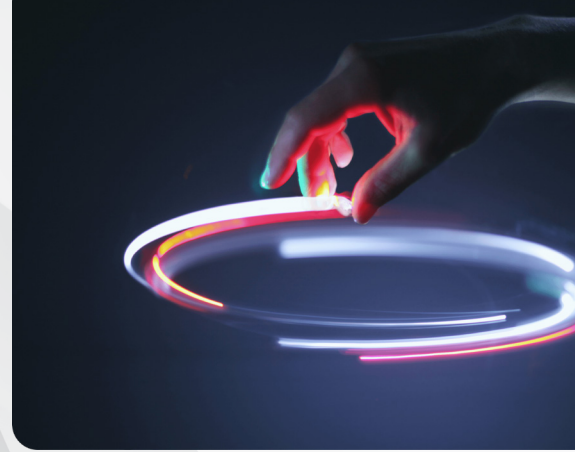


Building Data Lakes on AWS

Course Benefits & Agenda



Overview

1

Course Benefits

1

Agenda

2

Overview

In this course, students will learn how to build an operational data lake that supports analysis of both structured and unstructured data. Class participants will learn the components and functionality of the services involved in creating a data lake. Students will use AWS Lake Formation to build a data lake, AWS Glue to build a data catalog, and Amazon Athena to analyze data. The course lectures and labs further their learning with the exploration of several common data lake architectures.

Course Benefits

This course teaches you how to:

- Apply data lake methodologies in planning and designing a data lake
- Articulate the components and services required for building an AWS data lake
- Describe how to secure a data lake with appropriate permissions
- Describe how data is ingested, stored, and transformed in a data lake
- Describe how to analyze and visualize data within a data lake

Agenda

Day 1

Module	Topic
Module 1	Database Concepts and General Guidelines
Module 2	Database Planning and Design
Module 3	Databases on Amazon EC2
Module 4	Purpose-built databases
Module 5	Databases on Amazon RDS
Lab 1	Working with Amazon RDS databases
Module 6	Databases in Amazon Aurora

Day 2

Module	Topic
Lab 2	Working with Amazon Aurora databases
Module 7	Databases in Amazon DocumentDB (with MongoDB compatibility)
Lab 3	Working with Amazon DocumentDB Databases
Module 8	Amazon DynamoDB Tables
Lab 4	Working with Amazon DynamoDB Tables
Module 9	Databases in Amazon Neptune

Agenda

Day 3

Module	Topic
Module 10	Databases in Amazon Quantum Ledger Database (Amazon QLDB)
Module 11	Databases in Amazon ElastiCache
Module 12	Data Warehousing in Amazon Redshift
Lab 5	Working with Amazon Redshift Clusters
Module 13	Course review