



Building Data Lakes on AWS

In this course, you will learn how to build an operational data lake that supports analysis of both structured and unstructured data. You will learn the components and functionality of the services involved in creating a data lake. You 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 your learning with the exploration of several common data lake architectures.

Course Contents

- Module 1: Introduction to data lakes
- Module 2: Data ingestion, cataloging, and preparation
- Module 3: Data processing and analytics
- Module 4: Building a data lake with AWS Lake Formation
- Module 5: Additional Lake Formation configurations
- Module 6: Architecture and course review

You have access to the labs for another 14 days after the course. This way you can repeat exercises or deepen them individually.

E-Book You will receive the original course documentation by Amazon Web Services as an e-book.

Target Group

This course is intended for:

- Data platform engineers
- Solutions architects
- IT professionals

Prerequisites

We recommend that attendees of this course have:

- Completed the AWS Technical Essentials
- One year of experience building data analytics pipelines or have completed the Data Analytics Fundamentals

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.expertech-training.com/go/AWBL

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

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Training	Prices, excl. of V.A.T.	
Classes in Germany	1 Day	€ 750
Online Training	1 Day	€ 750
Dates upon request		

Status 03/26/2024



Table of Contents

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Module 1: Introduction to data lakes	Apply security and access controls to AWS Lake Formation
Describe the value of data lakes	Match records with AWS Lake Formation FindMatches
Compare data lakes and data warehouses	Visualize data with Amazon QuickSight
Describe the components of a data lake	Lab 3: Automate data lake creation using AWS Lake Formation blueprints
Recognize common architectures built on data lakes	Lab 4: Data visualization using Amazon QuickSight
Module 2: Data ingestion, cataloging, and preparation	Module 6: Architecture and course review
Describe the relationship between data lake storage and data ingestion	Post course knowledge check
Describe AWS Glue crawlers and how they are used to create a data catalog	Architecture review
Identify data formatting, partitioning, and compression for efficient storage and query	Course review
Lab 1: Set up a simple data lake	
Module 3: Data processing and analytics	
Recognize how data processing applies to a data lake	
Use AWS Glue to process data within a data lake	
Describe how to use Amazon Athena to analyze data in a data lake	
Module 4: Building a data lake with AWS Lake Formation	
Describe the features and benefits of AWS Lake Formation	
Use AWS Lake Formation to create a data lake	
Understand the AWS Lake Formation security model	
Lab 2: Build a data lake using AWS Lake Formation	
Module 5: Additional Lake Formation configurations	
Automate AWS Lake Formation using blueprints and workflows	

