Szkolenie: AWS
Building Data Lakes on AWS

Cel szkolenia:

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 objectives

In this course, you will learn to:

- Apply data lake methodologies in planning and designing a data lake
- Articulate the components and services required for building an AWS data lake
- Secure a data lake with appropriate permission
- Ingest, store, and transform data in a data lake
- Query, analyze, and visualize data within a data lake

Intended audience

This course is intended for:

- Data platform engineers
- Solutions architects
- IT professionals

Plan szkolenia:

- Module 1: Introduction to data lakes
  - Describe the value of data lakes
  - Compare data lakes and data warehouses
  - Describe the components of a data lake
  - Recognize common architectures built on data lakes
- Module 2: Data ingestion, cataloging, and preparation
  - Describe the relationship between data lake storage and data ingestion

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- Describe AWS Glue crawlers and how they are used to create a data catalog
- Identify data formatting, partitioning, and compression for efficient storage and query
- 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
  - Apply security and access controls to AWS Lake Formation
  - Match records with AWS Lake Formation FindMatches
  - Visualize data with Amazon QuickSight
  - Lab 3: Automate data lake creation using AWS Lake Formation blueprints
  - Lab 4: Data visualization using Amazon QuickSight
- Module 6: Architecture and course review
  - Post course knowledge check
  - Architecture review
  - Course review

Wymagania:

We recommend that attendees of this course have:

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

Poziom trudności



Certyfikaty:

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The participants will obtain certificates signed by AWS (course completion).

This course together with Building Data Analytics Solutions Using Amazon Redshift, also helps you prepare for the AWS Certified Data Analytics - Specialty DAS- C01exam and this way gain the AWS Certified Data Analytics - Specialty title – specialty level. AWS certification exams are offered at Pearson Vue test centers worldwide https://home.pearsonvue.com/Clients/AWS.aspx

Prowadzący:

AWS Authorized Instructor (AAI)

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