AWS Certified Data Analytics - Specialty

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Course#:aws-cbds-b
Duration:4 Days
Price:3820.00
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Course Description

This track includes:

AWS Business Essentials - 1 Day

Big Dataon AWS - 3 Days

TheAWS Certified Data Analytics - Specialtyexam validates technical skills and experience in designing and implementing AWS services to derive value from data. This course is intended for Individuals with a Cloud Practitioner or Associate-level AWS certification and two or more years of experience performing complex big data analysis. The course helps you prepare for the exam by taking a deep dive into several data-driven use cases.

InAWS Business Essentials, you will learn the benefits of cloud computing and how a cloud strategy can help you meet your business objectives. This course explores the advantages of cloud computing for your business and the fundamentals of AWS, including financial benefits. This course also introduces compliance and security concepts to help you consider the AWS platform within your cloud computing strategy.

Big Data on AWSintroduces you to cloud-based big data solutions such as Amazon Elastic MapReduce (EMR), Amazon Redshift, Amazon Kinesis and the rest of the AWS big data platform. In this course, we show you how to use Amazon EMR to process data using the broad ecosystem of Hadoop tools like Hive and Hue. We also teach you how to create big data environments, work with Amazon DynamoDB, Amazon Redshift, Amazon QuickSight, Amazon Athena and Amazon Kinesis, and leverage best practices to design big data environments for security and cost-effectiveness.

Certification bundle includes:

AWS Business Essentials

Big Dataon AWS

AWS Certification Exam Readiness Workshop

Objectives

In this course, you will learn how to:

Identify the value and advantages of the AWS Cloud

Recognize the valuable ways that the AWS platform can be used

Understand the robust security capabilities, controls, and assurances in place to maintain data and network security

Articulate the financial impact the AWS Cloud can have on an organizations cost management, while minimizing the risks associated with consumption-based pricing models

Fit AWS solutions inside of a big data ecosystem

Leverage Apache Hadoop in the context of Amazon EMR

Identify the components of an Amazon EMR cluster

Launch and configure an Amazon EMR cluster

Leverage common programming frameworks available for Amazon EMR including Hive, Pig, and Streaming

Leverage Hue to improve the ease-of-use of Amazon EMR

Use in-memory analytics with Spark on Amazon EMR

Choose appropriate AWS data storage options

Identify the benefits of using Amazon Kinesis for near real-time big data processing

Leverage Amazon Redshift to efficiently store and analyze data

Comprehend and manage costs and security for a big data solution

Identify options for ingesting, transferring, and compressing data

Leverage Amazon Athena for ad-hoc query analytics

Leverage AWS Glue to automate ETL workloads.

Use visualization software to depict data and queries using Amazon QuickSight

Orchestrate big data workflows using AWS Data Pipeline

Navigate the AWS Certification process

Understand the content domains that will be tested in the AWS Certified Big Data - Specialty exam

Implement core AWS Big Data services according to architectural best practices

Leverage tools to automate data analysis on AWS

Audience

Who Should Attend

 IT business decision makers
 Individuals who are new to working with AWS
 Individuals responsible for designing and implementing big data solutions, namely Solutions Architects and SysOps Administrators.
 Data Scientists and Data Analysts interested in learning about big data solutions on AWS.
 Data architects
 Developers
 Solutions architects

Prerequisites

We recommend that attendees of this course have the following prerequisites:

 Working knowledge of IT infrastructure concepts
 Familiarity with basic finance concepts
 Familiarity with basic IT security concepts
 Basic familiarity with big data technologies, including Apache Hadoop, HDFS, and SQL/NoSQL querying.
 Students should complete the Big Data Technology Fundamentals web-based training or have equivalent experience.
 Working knowledge of core AWS services and public cloud implementation.
 Students should complete the AWS Essentials course or have equivalent experience.
 Basic understanding of data warehousing, relational database systems, and database design.
 AWS Certified Cloud Practitioner or an Associate-level AWS Certification
 Two or more years of hands-on experience performing complex big data analyses on AWS

Content

AWS Business Essentialsteaches you:

 Module 1 : Getting started

Module 2 : Leveraging AWS for competitive advantages

Module 3 : Cloud economics

Module 4 : Security and compliance

Module 5 : Migrating to the AWS Cloud

Big Data on AWSteaches you

Day 1

Overview of Big Data

Ingestion

Big Data streaming and Amazon Kinesis

Using Kinesis to stream and analyze Apache server logs

Storage Solutions

Querying Big Data using Amazon Athena

Using Amazon Athena to analyze log data

Introduction to Apache Hadoop and Amazon EMR

Day 2

Using Amazon Elastic MapReduce

Storing and Querying Data on DynamoDB

Hadoop Programming Frameworks

Processing Server Logs with Hive on Amazon EMR

Streamlining Your Amazon EMR Experience with Hue

Running Pig Scripts in Hue on Amazon EMR

Spark on Amazon EMR

Processing New York Taxi dataset using Spark on Amazon EMR

Day 3

Using AWS Glue to automate ETL workloads

Amazon Redshift and Big Data

Visualizing and Orchestrating Big Data

Visualizing

Managing Amazon EMR Costs

Securing Big Data solutions

Big Data Design Patterns