Big Data on AWS

Kód kurzu: AWSBD

Big Data on AWS introduces 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, and Amazon Kinesis, and leverage best practices to design big data environments for security and cost-effectiveness.

Pobočka	Dnů	Cena kurzu	ITB
Praha	3	1 650 €	0
Brno	3	1 650 €	0
Bratislava	3	1 650 €	0

Uvedené ceny jsou bez DPH.

Termíny kurzu

Datum	Dnů	Cena kurzu	Typ výuky	Jazyk výuky	Lokalita

Uvedené ceny jsou bez DPH.

Pro koho je kurz určen

- 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

Co Vás naučíme

- 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 and Spark SQL on Amazon EMR
- Choose appropriate AWS data storage options
- Identify the benefits of using Amazon Kinesis for near real-time big data processing
- Define data warehousing and columnar database concepts
- Leverage Amazon Redshift to efficiently store and analyze data
- Comprehend and manage costs and security for Amazon EMR and Amazon Redshift deployments
- Identify options for ingesting, transferring, and compressing data
- Use visualization software to depict data and queries
- Orchestrate big data workflows using AWS Data Pipeline

Požadované vstupní znalosti

- Basic familiarity with big data technologies, including Apache Hadoop, MapReduce, 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 Technical Essentials course or have equivalent experience
- Basic understanding of data warehousing, relational database systems, and database design

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Big Data on AWS

Studijní materiály

Amazon Web Services authorized e-book included.

Osnova kurzu

Note: course outline may vary slightly based on the regional location and/or language in which the class is delivered.
This course will cover the following concepts on each day:
Day 1
Overview of Big Data

Ingestion, Transfer, and Compression

Storage Solutions

Storing and Querying Data on DynamoDB

Big Data Processing and Amazon Kinesis

Introduction to Apache Hadoop and Amazon EMR

Using Amazon Elastic MapReduce
Day 2
Hadoop Programming Frameworks

Processing Server Logs with Hive on Amazon EMR

Processing Chemistry Data Using Hadoop Streaming on Amazon EMR

Streamlining Your Amazon EMR Experience with Hue

Running Pig Scripts in Hue on Amazon EMR

Spark on Amazon EMR

Interactively Creating and Querying Tables with Spark and Spark SQL on Amazon EMR

Managing Amazon EMR Costs

Securing your Amazon EMR Deployments
Day 3
Data Warehouses and Columnar Datastores

Amazon Redshift and Big Data

Optimizing Your Amazon Redshift Environment

Big Data Design Patterns

Visualizing and Orchestrating Big Data

Using Tibco Spotfire to Visualize Big Data

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