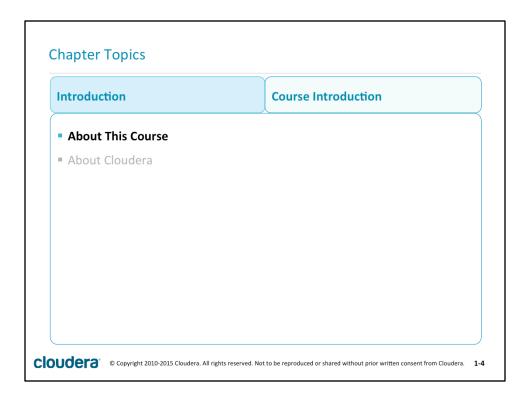


Course Chapters

Course Introduction	Introduction	1
Introduction to Hadoop	Introduction to Hadoop and the Hadoop Ecosystem Hadoop Architecture and HDFS	2
Importing and Modeling Structured Data	Importing Relational Data with Apache Sqoop Introduction to Impala and Hive Modeling and Managing Data with Impala and Hive Data Formats Data Partitioning	4 5 6 7 8
Ingesting Streaming Data	Capturing Data with Apache Flume	9
Distributed Data Processing with Spark	Spark Basics Working with RDDs in Spark Aggregating Data with Pair RDDs Writing and Deploying Spark Applications Parallel Processing in Spark Spark RDD Persistence Common Patterns in Spark Data Processing Spark SQL and DataFrames	10 11 12 13 14 15 16
Course Conclusion	Conclusion	18



This slide shows the main topics covered in the current chapter. The current section is highlighted to illustrate the topic about to be covered.

Course Objectives

During this course, you will learn

- How the Hadoop Ecosystem fits in with the data processing lifecycle
- How data is distributed, stored and processed in a Hadoop cluster
- How to use Sqoop and Flume to ingest data
- How to process distributed data with Spark
- Best practices for data storage
- How to model structured data as tables in Impala and Hive
- How to choose a data storage format for your data usage patterns

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Chapter Topics Introduction Course Introduction About This Course About Cloudera Ocopyright 2010-2015 Cloudera. All rights reserved. Not to be reproduced or shared without prior written consent from Cloudera. 1-6

About Cloudera (1)

cloudera

- The leader in Apache Hadoop-based software and services
- Founded by leading experts on Hadoop from Facebook, Yahoo, Google, and Oracle
- Provides support, consulting, training, and certification for Hadoop users
- Staff includes committers to virtually all Hadoop projects
- Many authors of texts on Apache Hadoop projects, including
 - Lars George, Amandeep Khurana, Uri Laserson, Sean Owen, Sandy Ryza, Ben Spivey, Kathleen Ting, Tom White, and Josh Wills

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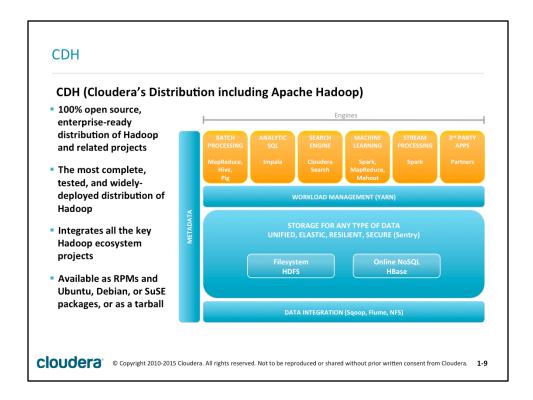
Cloudera was founded in 2008. Our staff also includes the ASF chairperson and creator of Hadoop, Doug Cutting, as well as many involved in the project management committee (PMC) of various Hadoop-related projects. The person who literally wrote the book on Hadoop, Tom White, works for Cloudera, as does the person who wrote the first book on HBase, Lars George.

There are many other Cloudera employees who have written or co-authored books on Hadoop-related topics, and you can find an up-to-date list here [http:// www.cloudera.com/content/cloudera/en/developers/home/ hadoop-ecosystem-books.html].

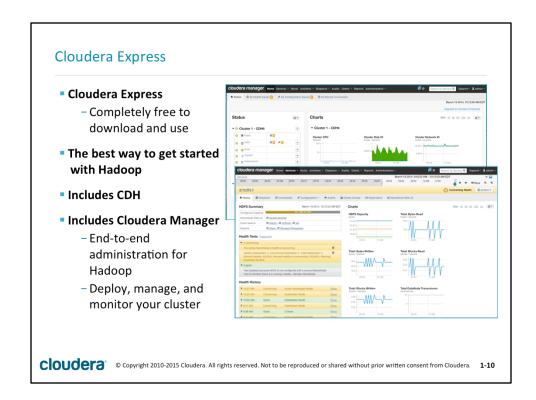
About Cloudera (2)

- Customers include many key users of Hadoop
 - Allstate
 - AOL Advertising
 - Box
 - CBS Interactive
 - eBay, Experian
 - Groupon
 - National Cancer Institute
 - Orbitz
 - Social Security Administration
 - Trend Micro
 - Trulia
 - US Army

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You can think of CDH as analogous to what RedHat does with Linux: although you could download the "vanilla" kernel from kernel.org, in practice, nobody really does this. CDH is a tested and validated Hadoop distribution which includes Apache Hadoop and all the complementary tools you'll be learning about in this course. All of this is completely open source and available under the Apache license from Cloudera's website.



Main point: Cloudera Express is free, and adds Cloudera-specific features on top of CDH, in particular Cloudera Manager (CM).

Note: Cloudera Express previously imposed a 50 node limit, but it no longer does.

Cloudera Enterprise

- Cloudera Enterprise
 - Subscription product including CDH and Cloudera Manager
- Includes support
- Includes extra Cloudera Manager features
 - Configuration history and rollbacks
 - Rolling updates
 - LDAP integration
 - SNMP support
 - Automated disaster recovery
- Extended capabilities with Cloudera Navigator subscription
 - Event auditing, metadata tagging capabilities, lineage exploration



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LDAP = Lightweight Directory Access Protocol SNMP = Simple Network Management Protocol

