



Working with Apache Hive | Apache Hive Essentials

Learn Hive Essentials, Architecture & Skills for Data Warehousing Hadoop

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Course Snapshot

- **Course:** TTDS6763 Working with Apache Hive
- **Duration:** 2 days
- **Audience:** This introductory-level course is geared for experienced data scientists and software engineers.
- **Hands-on Learning:** This course is approximately 50% hands-on lab to 50% lecture ratio, combining engaging lecture, demos, group activities and discussions with machine-based student labs and exercises. Student machines are required.
- **Delivery Options:** This course is available for **onsite private classroom presentation, live online virtual presentation**, or can be presented in a **flexible blended learning format** for combined onsite and remote attendees. Please also ask about our **Self-Paced / Video / QuickSkills or Mini-Camp Flex Hours / Short Course** options.
- **Public Schedule:** This course has active dates on our live-online open enrollment **Public Schedule**.
- **Customizable:** This course agenda, topics and labs can be further adjusted to target your specific training skills objectives, tools and learning goals. Please inquire for details.

Overview

Apache Hive is the de-facto standard for data warehousing Hadoop. This course starts with standard Hive setup and operations, continues into Advanced Hive use, discusses performance and execution engines, and ends with a practical workshop.

Course Topics / Agenda

Please note that this list of topics is based on our standard course offering, evolved from typical industry uses and trends. We'll work with you to tune this course and level of coverage to target the skills you need most. Course topics, agenda and labs are subject to change, and may adjust during live delivery based on audience needs, participation and skill-level.

Hive Basics

- Defining Hive Tables
- SQL Queries over Structured Data
- Filtering / Search
- Aggregations / Ordering
- Partitions
- Joins
- Text Analytics (Semi-Structured Data)

Hive Advanced

- Transformation, Aggregation
- Working with Dates, Timestamps,

and Arrays

- Converting Strings to Date, Time, and Numbers
- Create new Attributes, Mathematical Calculations, Windowing Functions
- Use Character and String Functions
- Binning and Smoothing
- Processing JSON Data
- Execution Engines (Tez, MR, Spark)

Impala (for Cloudera track)

- Architecture
- Impala joins and other SQL specifics

Bonus Project

- Students will work in teams to do this end-to-end workshop
- Setup a data warehouse with Hive
- Query and analyze data with Hive and Spark

Need different skills or topics? If your team requires different topics or tools, additional skills or custom approach, this course may be further adjusted to accommodate. We offer additional big data, data science, Hadoop, Apache tooling, programming and other related topics that may be blended with this course for a track that best suits your needs. Our team will collaborate with you to understand your needs and will target the course to focus on your specific learning objectives and goals.

Audience & Pre-Requisites

This is an **Introductory-level** course is geared for experienced data scientists and engineers seeking a quick start to working with Hive. Attendees should have some familiarity with basic SQL, and should also be able to navigate Linux command line and have basic knowledge of Linux editors (such as VI / nano) for editing code.

Learning Paths: This course is a core component of our **Big Data, AI & Machine Learning Skills Path**, designed to train participants of all skill levels in modern data science across the enterprise. We offer courses in next level Hadoop, Hive, Analytics, Kafka and more. Please contact us for details and next step recommendations based on your specific roles and goals.

Enhanced Learning Services: Please also ask about our **Pre-Training Class OnRamp & Prep / Primer** offerings, **Skills Gap Assessment Services, Case Studies, Knowledge Check Quizzes, Skills Immersion Programs & Camps, Collaborative Mentoring Services** and **Extended Learning Support & Post Training** services.

Student Materials: Each participant will receive a **Student Guide** with course notes, code samples, software tutorials, step-by-step written lab instructions, diagrams and related reference materials and resource links. Students will also receive the project files (or code, if applicable) and solutions required for the hands-on work.

Hands-On Setup Made Simple! Our dedicated tech team will work with you to ensure our 'easy-access' cloud-based course environment is accessible, fully-tested and verified as ready to go well in advance of the course start date, ensuring a smooth start to class and effective learning experience for all participants. Please inquire for details and options.

For More Information

For more information about our dedicated training services, collaborative coaching services, courseware licensing and development services, public course schedule, training management services, partner programs, or to see our complete list of course offerings and special offers please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

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