Introduction to Hadoop Administration (TTDS6503)

Category: AI, Data & Analytics | **Vendor:** Trivera Tech

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Apache Hadoop is an open source framework for creating reliable and distributable compute clusters. Hadoop provides an excellent platform (with other related frameworks) to process large unstructured or semi-structured data sets from multiple sources to dissect, classify, learn from and make suggestions for business analytics, decision support, and other advanced forms of machine intelligence.This is an introductory-level, hands-on lab-intensive course geared for the administrator (new to Hadoop) who is charged with maintaining a Hadoop cluster and its related components. You will learn how to install, maintain, monitor, troubleshoot, optimize, and secure Hadoop.

About This Course

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Who Should Attend

This is an introductory-level course designed to teach experienced systems administrators how to install, maintain, monitor, troubleshoot, optimize, and secure Hadoop. Previous Hadoop experience is not required.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Working within in an engaging, hands-on learning environment, guided by our expert team, attendees will learn to:

Understand the benefits of distributed computing

Understand the Hadoop architecture (including HDFS and MapReduce)

Define administrator participation in Big Data projects

Plan, implement, and maintain Hadoop clusters

Deploy and maintain additional Big Data tools (Pig, Hive, Flume, etc.)

Plan, deploy and maintain HBase on a Hadoop cluster

Monitor and maintain hundreds of servers

Pinpoint performance bottlenecks and fix them

Detailed Course Outline

Introduction

- Hadoop history and concepts
- Ecosystem
- Distributions
- High level architecture
- Hadoop myths
- Hadoop challenges (hardware / software)

Planning and installation

- Selecting software and Hadoop distributions
- Sizing the cluster and planning for growth
- Selecting hardware and network
- Rack topology
- Installation
- Multi-tenancy
- Directory structure and logs
- Benchmarking

HDFS operations

- Concepts (horizontal scaling, replication, data locality, rack awareness)
- Nodes and daemons (NameNode, Secondary NameNode, HA Standby NameNode, DataNode)
- Health monitoring
- Command-line and browser-based administration
- Adding storage and replacing defective drives

MapReduce operations

- Parallel computing before MapReduce: compare HPC versus Hadoop administration
- MapReduce cluster loads
- Nodes and Daemons (JobTracker, TaskTracker)
- MapReduce UI walk through
- MapReduce configuration
- Job config
- Job schedulers
- Administrator view of MapReduce best practices
- Optimizing MapReduce
- Fool proofing MR: what to tell your programmers
- YARN: architecture and use

Advanced topics

- Hardware monitoring
- System software monitoring
- Hadoop cluster monitoring
- Adding and removing servers and upgrading Hadoop
- Backup, recovery, and business continuity planning
- Cluster configuration tweaks
- Hardware maintenance schedule
- Oozie scheduling for administrators
- Securing your cluster with Kerberos
- The future of Hadoop

Additional Course Details

Nexus Humans Introduction to Hadoop Administration (TTDS6503) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to Hadoop Administration (TTDS6503) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to Hadoop Administration (TTDS6503)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Hadoop Administration (TTDS6503) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Hadoop Administration (TTDS6503) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Hadoop Administration (TTDS6503)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Hadoop Administration (TTDS6503). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Introduction to Hadoop Administration (TTDS6503)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Hadoop Administration (TTDS6503) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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