



# Big Data Analytics with Microsoft HDInsight in 24 Hours, Sams Teach Yourself

By Manpreet Singh, Arshad Ali

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With Microsoft HDInsight, business professionals and data analysts can rapidly leverage the power of Hadoop on a flexible, scalable cloud-based platform, using Microsoft's accessible business intelligence, visualization, and productivity tools. Now, in just 24 lessons of one hour or less, you can learn all the skills and techniques you'll need to provision, configure, monitor, troubleshoot, and use HDInsight, even if you're new to big data analytics. Each short, easy lesson builds on all that's come before: you'll learn all of HDInsight's essentials as you solve real data analytics problems. **Sams Teach Yourself Big Data Analytics with Microsoft HDInsight in 24 Hours** covers all this, and much more:

- Introduction of Big Data, NoSQL systems, its Business Value Proposition and use cases examples
- Introduction to Hadoop, Architecture, Ecosystem and Microsoft HDInsight
- Getting to know Hadoop 2.0 and the innovations it provides like HDFS2 and YARN
- Quickly installing, configuring, and monitoring Hadoop (HDInsight) clusters in the cloud and automating cluster provisioning
- Customize the HDInsight cluster and install additional Hadoop ecosystem projects using Script Actions
- Administering HDInsight from the Hadoop command prompt or Microsoft PowerShell
- Using the Microsoft Azure HDInsight Emulator for learning or development
- Understanding HDFS, HDFS vs. Azure Blob Storage, MapReduce Job Framework and Job Execution Pipeline
- Doing big data analytics with MapReduce, writing your MapReduce programs in your choice of .NET programming language such as C#
- Using Hive for big data analytics, demonstrate end to end scenario and how Apache Tez improves the performance several folds
- Consuming HDInsight data from Microsoft BI Tools over Hive ODBC Driver - Using HDInsight with Microsoft BI and Power BI to simplify data integration, analysis, and reporting
- Using PIG for big data transformation workflows step by step
- Apache HBase on HDInsight, its architecture, data model, HBase vs. Hive,

- programmatically managing HBase data with C# and Apache Phoenix
- Using Sqoop or SSIS (SQL Server Integration Services) to move data to/from HDInsight and build data integration workflows for transferring data
- Using Oozie for scheduling, co-ordination and managing data processing workflows in HDInsight cluster
- Using R programming language with HDInsight for performing statistical computing on Big Data sets
- Using Apache Spark's in-memory computation model to run big data analytics up to 100 times faster than Hadoop MapReduce
- Perform real-time Stream Analytics on high-velocity big data streams with Storm
- Integration of Enterprise Data Warehouse with Hadoop and Microsoft Analytics Platform System (APS), formally known as SQL Server Parallel Data Warehouse (PDW)

Step-by-step instructions walk you through common questions, issues, and tasks; Q-and-As, Quizzes, and Exercises build and test your knowledge; "Did You Know?" tips offer insider advice and shortcuts; and "Watch Out!" alerts help you avoid problems. By the time you're finished, you'll be comfortable going beyond the book to create any HDInsight app you can imagine!

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