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Learning Style: On Demand

Technology:

Difficulty: Intermediate

Course Duration: 4 Hours

Learn By Example: Apache Storm



About the course:

Storm is to process what Hadoop is to perform batch processing in real-time. Utilizing Storm, you can build apps that allow you to be highly sensitive to the new data and respond in secs and mins, like detecting the latest trend trends on twitter or tracking spikes in payment gateway failure. Storm can do it all, from basic data

transformations to the deployment of machine learning algorithms on the fly.

This online training program has twenty-five examples solved in developing Storm Apps.

Course Objective:

- Running a topology for Storms in remote mode and local mode
- Manage reliability and tolerance of faults inside Bolts and Spouts
- Comprehension Bolts and Spouts that are the building blocks of any topology of Storm.
- Parallelization of data processing within a topology utilizing various grouping techniques: grouping of shuffles, a grouping of lines, custom grouping, a grouping of all, direct grouping
- Using libraries like Storm-R and Trident-ML, to apply ML algorithms on the fly
- Executing complex transformations on the fly utilizing the topology of Trident: window, filter, map, and partition operations

Audience:

- People who are familiar with Batch processing techniques such as Hadoop want to know more about Stream processing
- Engineers who are currently looking to configure end-to-end data processing pipelines that adapt to real-time changes

Prerequisite:

- You can install a Java IDE, such as IntelliJ Idea
- Java programming expertise and familiarity with the use of Java frameworks

Course Outline:

- Start Here
- Stream Processing with Storm
- Implementing a Hello World Topology
- Processing Data using Files
- Running a Topology in the Remote Mode
- Adding Parallelism to a Storm Topology
- Section 7: Building a Word Count Topology
- Remote Procedure Calls Using Storm
- Managing Reliability of Topologies
- Integrating Storm with Different Sources/Sinks

- Using the Storm Multilang Protocol
- Complex Transformations using Trident