

Real-Time Analytics with Apache Storm

Duration : 02 Days

1. Big Data and its Uses

Learn what is Big Data and relevant concepts, where it is used, and various types of data analytics

2. Storm Introduction

Understand the concepts of Storm architecture, use cases, & its usage in real-time stream processing

3. Storm Installation and Configuration

Learn how to set up Storm and what system configuration is needed to create various topologies

Installation of Storm

- Nimbus Node
- Supervisor Nodes
- Worker Nodes
- Running Modes
- Local Mode
- Remote Mode
- Stream Grouping
- Shuffle Grouping
- Fields Grouping
- All Grouping
- Custom Grouping
- Direct Grouping

4. Spouts and Bolts

Get the knowledge on how to use spouts & bolts along with their mechanism and life cycle

- Basic components of Apache Storm
- Spout
- Bolts
- Running Mode in Storm
- Reliable and unreliable messaging
- Spouts
- Introduction
- Data fetching techniques
- Direct Connection
- Enqueued message
- DRPC
- How to create custom Spouts
- Introduction to Kafka Spouts
- Bolts
- Bolt Lifecycle
- Bolt Structure
- Reliable and Unreliable Bolts
- Basic topology example using Spout and bolts

- Storm UI

5. Storm Trident

Learn how to handle failures in Trident topologies & how to perform real-time computing in Storm

- Trident Design
- Trident in Storm
- RQ Class, Coordinator, Emitter bolt
- Committer Bolts, Partitioned Transactional Spouts
- Transaction Topologies