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The Apache Storm Certification Training course introduces delegates to the world of Apache Storm. The course provides an overview of the fundamentals, architecture, topology, structure and mechanism of Storm. The course exposes delegates to standalone as well as cluster setup of Apache Storm. By the completion of the course, the delegates will be able to do distributed real-time data processing and implement various analytical tools for powerful enterprise-grade solutions. The course helps the delegates to gain expertise in Streaming Big Data Processing. The delegates will also learn to process real-time streams of data and deploy a Storm cluster in a distributed environment. The Apache Storm is developed by industry experts who will equip the delegates with core techniques and practical skills on Apache Storm concepts.

Apache Storm is open source distributed real-time computation system and can be used with any programming language. It is easy to set up, scalable and fault-tolerant. The Apache Storm course equips the delegates with Big Data and real time analytics knowledge and skills required to handle huge volumes of data. During the course, the delegates will gain an understanding of core concepts of Storm and Storm architecture, master fundamental concepts like Tuple, Trident and work on various business problems related to Storm.

## Prerequisites

The delegates are expected to have:

- Basic knowledge of Linux or Unix based systems
- Development experience with an object-oriented language
- Understanding of data processing fundamentals
- Knowledge of core Java would also be beneficial

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## Course Objectives

- Explain Big Data and Real Time Big data processing
- Understand the difference between Real Time Processing and Batch Processing
- Know the basic components of Apache Storm and their working
- Installation of Apache Storm
- Difference between Hadoop and Storm
- Comparison with Hadoop and Spark
- Basic topology example using Spout and bolts
- Understand Kafka and Trident Topology
- Implement Trident Spouts, Trident Filter, bolt

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- Use-Cases

## Apache Storm Concepts

- Topology
- Tasks
- Workers
- Stream Grouping

## Cluster Architecture

## Apache Storm Workflow

## Overview of Distributed Messaging System

## Installing Apache Storm

- Verifying Java Installation
- ZooKeeper Framework Installation
- Apache Storm Framework Installation

## Apache Storm Trident

- Topology and Tuples
- Spout and Operations
- State Maintenance
- Distributed RPC

## Apache Storm Applications

The Apache Storm Certification Training course introduces delegates to the world of Apache Storm. The course provides an overview of the fundamentals, architecture, topology, structure and mechanism of Storm.