Apache NiFi Training

Duration: **2 Day**

BILGINC IT Academy
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Overview

Apache NiFi that helps you master various aspects of automating dataflow, managing flow of information between systems, streaming analytics, the concepts of data lake and constructs, various methods of data ingestion and real-world Apache NiFi projects.

Apache NiFi is finding rapid adoption among enterprises that want to make the best use of Big Data and transform it into business insights. NiFi is more used in sourcing and transforming data from databases and big data lakes. It works with disparate and distributed data sources. Taking the classroom training in Apache NiFi will give you industry-relevant experience with hands-on Apache NiFi projects and skills to take on the best jobs in this domain.

Prerequisites

There are no prerequisites for learning Apache NiFi. However, having a basic knowledge of Linux command line can help.

Who Should Attend

- Big Data Hadoop Developers, Architects and other professionals
- Testing Professionals, Project Managers, Messaging and Queuing System Professionals

What You Will Learn

- Introduction to Big Data, Apache Hadoop and NiFi
- High-level architecture of HDFS and MapReduce
- Installation and cluster integration of NiFi
- FlowFile Processor and Flow Controller in Apache NiFi
- Database aggregating, splitting and transforming
- Best practices in Apache NiFi configuration

Outline

Big Data and Hadoop Overview

Introduction to Big Data and Hadoop and an overview of various components of the Hadoop ecosystem

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Big Data Architecture (Optional)

The detailed architecture of Big Data Hadoop and the high-level architecture of Hadoop Distributed File System and MapReduce

Data Lake Concepts and Constructs

Introduction to the concept of data lake, its attributes, support for colocation of data in various formats and overcoming the problem of data silos

Data Ingestion Layer

The Data ingestion layer in data lakes which is used to transfer data from source to destination and varieties of data ingestion

Data Ingestion Tools and Concepts

NiFi Processor, the data ingestion tools available for importing, transferring, loading and processing of data and introduction to Apache NiFi for data ingestion

Apache NiFi Concepts

The fundamental concepts of Apache NiFi, the concepts of FlowFile, FlowFile Processor, Flow Controller and their attributes and functions in dataflow

Apache NiFi Architecture

Introduction to the architecture of Apache NiFi, various components including FlowFile Repository, Content Repository, Provenance Repository and web-based user interface

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Installation Requirements and Cluster Integration

Apache NiFi installation requirements, cluster integration, successfully running Apache NiFi, adding a processor, scaling up and down and working with attributes

Key Features of Apache NiFi

Important features of Apache NiFi, the dataflow function, various aspects of FlowFile, File Professor, Flow Controller, Processor group and connection

Queuing and Buffering Data

Data buffering in Apache NiFi, the concept of queuing, latency and recovery, working with directed graphs, controller services, data routing and transformation and Processor configuration, connection and addition

Database Connection with NiFi

Connecting NiFi to database, transforming, splitting and aggregating data, the process of data egress, monitoring of NiFi, reporting, data lineage, NiFi administration and expression language

NiFi Configuration Best Practices

Various best practices in Apache NiFi configuration, ZooKeeper access and properties, encryption, the custom properties, guidelines for developers, NiFi Kerberos interface and data security in Hadoop

NiFi Configuration Best Practices

Installation of Apache NiFi, configuration, deploying the toolbar, building a dataflow using NiFi,

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working with various templates by creating, exporting and importing them to construct a dataflow and deploying batch ingestion and real-time ingestion in Apache NiFi