Apache NiFi Training

COURSE CONTENT

About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

Apache NiFi Training by Multisoft Systems is designed to help professionals master the fundamentals and advanced concepts of data flow automation, integration, and real-time data processing. Apache NiFi is an intuitive, powerful, and scalable platform that supports data ingestion, routing, transformation, and system mediation logic. With the growing demand for seamless data integration across organizations, NiFi has become a preferred tool for automating and managing complex data flows efficiently.

Module 1: Introduction to Apache NiFi

- ✓ Overview of Data Flow Automation
- ✓ Key Features and Use Cases of Apache NiFi
- ✓ NiFi Architecture and Core Concepts
- ✓ Understanding Flow-Based Programming

Module 2: NiFi Installation & Configuration

- ✓ System Requirements and Setup
- ✓ Installing Apache NiFi on Windows/Linux
- ✓ Exploring the NiFi User Interface
- ✓ Basic Configuration and Property Settings

Module 3: NiFi Components & Concepts

- ✓ FlowFiles, Processors, and Connections
- ✓ Controller Services and Reporting Tasks
- ✓ Process Groups and Templates
- ✓ FlowFile Attributes and Provenance Data

Module 4: Building Data Flows

- ✓ Creating and Configuring Processors
- ✓ Working with Queues and Relationships
- ✓ Data Transformation and Enrichment
- ✓ Scheduling and Prioritization in NiFi

Module 5: Data Ingestion & Integration

- ✓ Integrating with Databases, APIs, and File Systems
- ✓ Real-time Data Ingestion with Kafka, Hadoop, and Cloud Services
- ✓ Handling Structured and Unstructured Data

Module 6: Security & Access Control

- ✓ User Authentication and Authorization
- ✓ SSL/TLS Setup for Secure Communication
- ✓ Role-Based Access Control in NiFi

Module 7: NiFi Registry & Version Control

- ✓ Introduction to NiFi Registry
- ✓ Flow Versioning and Deployment Best Practices
- ✓ Managing Flow Lifecycle

Module 8: Error Handling & Monitoring

- ✓ Error Handling Strategies in NiFi
- ✓ Data Provenance for Auditing and Debugging
- ✓ Performance Monitoring and Optimization

Module 9: Advanced NiFi Features

- ✓ Site-to-Site Communication
- ✓ NiFi Clustering for High Availability
- ✓ Load Balancing and Scalability Options