

Mule 1.4 for Developers

Length:

3 days

Description

This course provides step by step instructions on using Mule 1.4, discusses the needs of enterprise architects and developers that drive the Mule project and provides an-depth understanding of the Mule architecture and configuration.

This course covers many examples including exception handling and transaction management.

Objectives

At the end of this class, professionals should:

- Understand the driving forces behind Mule:
 - Service Architectures (SOA)
 - The Enterprise Service Bus (ESB)
- Understand Mule:
 - Architecture
 - Concepts
 - Components
 - Configuration
- Know how to build Mule applications:
 - Message flows & styles
 - Transports & protocols supported
 - Spring integration
 - The Mule execution model
- Know how to extend Mule applications:
 - Exception management
 - Transaction management
 - Tracking state
 - Security

Audience

This course is designed for Java developers interested in Mule.

Prerequisites

The following prerequisites are suggested:

- Have an understanding of Java programming.
- Have an understanding of JEE and JMS.

Course Contents*About this Course*

- Introductions
- Course Objectives
- Course Agenda
- Course Format

Introduction

- Overview
- Key Features

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Installation

- Prerequisites
- Installing on Windows
- Distribution Layout

Quick Start

- Overview
- Simple Hello World Example
- Running Mule
- Running Mule for the First Time
- Starting the Server

Architecture

- Overview
- Models
- Endpoints
- Transports
- Routers
- Filters
- Transformers

Configuration

- Overview
- Configuration Options
- Configuring Mule Programmatically
- Configuring Endpoints
- Transports Guide
- JMX Management
- Configuring JMS
- Configuring Properties
- General Transport Configuration
- Object Containers
- Configuring Service Methods

Using Mule

- Writing Components
- Writing Transports
- Exception Strategies
- Internationalisation
- Mule Endpoints
- Message Routers
- Transaction Management
- Mule Client
- Mule Agents
- Mule Server Notifications
- Mule Security
- Testing with JUnit

Integration

- Application Servers

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- Containers
- JavaSpaces
- Scripting
- JNDI
- Security
- Transaction Managers
- Web Services
- Clustering

Tools

- Mule HQ
- Mule Saturn
- Mule IDE
- Benchmark
- Visualizer

What's new in Mule 2

- XML Schema
 - Easier Configuration
 - Transport-Specific Endpoints
 - Configuration Namespaces
 - Bean Definition Parser Toolkit
- Better Spring Integration
- Architectural Improvements
 - MuleContext and Registry
 - MuleDescriptor -> Service/Component
 - Endpoints
 - Streaming and Auto Transformations
 - MuleMessage and MessageAdapter
 - API
 - ConfigurationBuilder + MuleContextFactory
- Miscellaneous improvements
- Quality Assurance

Resources

- Web Resources
- Books