BizTalk 2013 R2 Developer Immersion

Course Summary

Description

Learn the nuance and intricacies of BizTalk Server development in five days. This course provides a thorough guide through all aspects of integration application development using BizTalk Server, including new features for BizTalk Server 2013 and 2013 R2 such as: running BizTalk applications in the cloud (IaaS), integrating with RESTful services, and integrating with cloud-based services on Windows Azure. Become a valuable member of any BizTalk development team by taking the course with the most up-to-date and most relevant content available. This class is an expanded BizTalk offering that goes beyond the curriculum offered directly by Microsoft. Please note, this class can be run an additional three days for more in-depth coverage.

Objectives

After taking this course, students will be able to:
- Deploy & manage a BizTalk application
- Automate deployment using MSIs & scripts
- Create & configure XML & flat-file Schemas
- Process EDIFACT/X12/HIPAA message types
- Transform messages using maps
- Manipulate data using Functoids
- Enable message routing & processing using receive & send ports
- Monitor message processing
- Create & configure pipelines to process XML, flat-file, & EDI data
- Create orchestrations to automate critical business processes

- Implement orchestration patterns such as correlation & direct-bound ports
- Integrate with ASMX, WCF, PHP, JAVA, and REST services
- Implement a variety of protocol & LOB adapters
- Integrate with trading partners & applications using EDI
- Develop Business Rules Engine (BRE) policies
- Enable Business Activity Monitoring (BAM)
- Run BizTalk Server applications in the Windows Azure cloud

Topics

- Introduction to BizTalk Server
- Creating Schemas
- Creating Maps
- Deploying BizTalk Applications
- Creating Messaging-Based Solutions
- Configuring Adapters and Hosts
- Creating Pipelines
- Basic Orchestration Design

- Advanced Orchestration Design
- Advanced Adapter Usage
- Managing Logic using the Business Rules Engine
- Integrating using Parties and EDI
- Enabling Business Activity Monitoring
- BizTalk Server in the Cloud

Audience

This course is intended for:
- Developers - learn to build & deploy BizTalk integration & business process applications.
- Solutions Architects - learn to design & plan BizTalk enterprise solutions.
- Systems Evaluators – gain a comprehensive understanding of BizTalk Server capabilities & toolsets.

Prerequisites

No prior BizTalk Server experience is required prior to taking this course.

Duration

Five days

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Course Outline

I. Introduction to BizTalk Server
  A. What Is BizTalk Server?
  B. The BizTalk Server Development Environment
  C. Lab: Examining a BizTalk Application

II. Creating Schemas
  A. Introduction to BizTalk Schemas
  B. Implementing and Understanding XML Schemas
  C. Creating Schemas for Non-XML Messages
  D. Lab: Creating BizTalk Schemas

III. Creating Maps
  A. Introduction to creating BizTalk Maps
  B. Understanding Data Manipulation using Functoids
  C. Lab: Transforming Data using BizTalk Maps

IV. Deploying BizTalk Applications
  A. Understanding deployment Fundamentals
  B. How to deploy Assemblies
  C. Working with Bindings Files
  D. Deploying using MSI Packages
  E. Lab: Deploying BizTalk Applications

V. Creating Messaging-Based Solutions
  A. Introduction to Message Routing
  B. Configuring Message Routing
  C. Understanding the monitoring BizTalk Processes
  D. Lab: Creating a Messaging-Based BizTalk Solution

VI. Configuring Adapters and Hosts
  A. Introduction to Adapters
  B. Introduction to managing Hosts and Host Instances
  C. Lab: Configuring Adapters

VII. Creating Pipelines
  A. Understanding Pipelines
  B. How to build a Pipeline
  C. Lab: Creating Pipelines

VIII. Basic Orchestration Design
  A. Introduction to BizTalk Orchestration
  B. Building an Orchestration
  C. Lab: Creating a BizTalk Orchestration

IX. Advanced Orchestration Design
  A. Introduction to orchestrator and Shapes
  B. Introduction to LPB (Logical Port Binding) Options
  C. Implementing Correlation
  D. Invoking Orchestrations
  E. Lab: Building Complex Orchestration Solutions

X. Advanced Adapter Usage
  A. Reviewing the Adapter Basics
  B. Understanding Multiport Configurations Send Ports
  C. Understanding Multiport Configurations Receive Ports
  D. Lab: Consuming External Services
  E. Lab: Publishing a Schema as a Service

XI. Managing Logic using the Business Rules Engine
  A. BRE Fundamentals
  B. BRE Tools and Tasks
  C. Lab: Managing Logic using Business Rule Policies

XII. Integrating using Parties and EDI
  A. Role-Based Integration
  B. What is EDI?
  C. EDI Developer Tasks
  D. EDI Administration Tasks
  E. Lab: Create a Role and Party Based Integration Solution

XIII. Enabling Business Activity Monitoring
  A. Introduction to Business Activity Monitoring
  B. Lab: Creating a BAM Tracking Solution

XIV. BizTalk Server in the Cloud
  A. Running BizTalk Server Applications in the Cloud
  B. BizTalk Server Cloud Services