

Building and Deploying solutions with BizTalk 2013

Introduction to BizTalk Server 2013

This module explains how BizTalk enables you to connect diverse applications, and then to use a graphical interface to create and modify business processes that use services provided by those applications.

Lessons

- What Is BizTalk Server 2013?
- BizTalk Server Services and Tools
- How BizTalk Messaging and Orchestration Work

Practice: Case Study

After completing this module, students will be able to: Identify the core features of BizTalk Server 2013.

- Describe the services and tools used by developers, administrators, and information workers to develop and manage BizTalk Server applications.
- Describe the functions of the BizTalk Messaging and Orchestration services.

Installing BizTalk Hosting Environment

This module explains how to plan and perform your BizTalk installation, and then how to configure BizTalk Server 2013 for optimal use in your business environment.

Lessons

- Planning a BizTalk Server Installation
- Installing and Configuring BizTalk Server

Configuring Prerequisite Software

- Verifying the Current Platform and Installed Services
- Installing and Configuring Internet Information Services
- Installing and Configuring Microsoft Windows SharePoint Services/SQL Server/Visual Studio
- Creating BizTalk Service Accounts
- Installing XML Components

Installing and Configuring BizTalk Server 2013

- Installing BizTalk Server 2013
- Configuring BizTalk Server 2013
- Installing Client Administration Tools
- Plan a BizTalk Server 2013 installation.
- Install and configure BizTalk Server 2013.

New ways for doing Basic tasks

- Visual Studio.Net Project System Overview
- Creating a Solution and adding project(s)
- Tools - Editor, Mapper, Orchestration Designer
- Pipeline Designer/Building Pipelines
- BizTalk Explorer – BizTalk Configuration
- Routing in BizTalk Server 2013
- Deployment of Applications – Requirements
- Handling project dependencies: best practices
- BizTalk Administration
- Using InfoPath and BizTalk Server 2013

Deploying BizTalk Server Applications

This module explains how BizTalk automates your business processes by deploying BizTalk solutions.

Lessons

- Deploying Assemblies Using Deployment Tools
- Deploying Assemblies Using Windows Management Instrumentation (WMI)
- Deploying Business Rules

Lab: Deploying Applications

- Deploying an Application by Using an MSI File
- Deploying an Application by using the Deployment Wizard
- Modifying a Binding File and Deploying Changes
- Deploying an Application by using Command-Prompt Tools

Deploying Assemblies by Using WMI

- Installing WMI Tools
- Deploying an Application by using WMI
- Removing an Application by using WMI

Deploying and Tracking Business Rules

- Deploying a Business Rule
- Tracking a Business Rule
- After completing this module, students will be able to:
 - Prepare to deploy a BizTalk solution.
 - Deploy assemblies by using deployment tools.
 - Deploy assemblies by using WMI.

Administering a BizTalk Environment

This module explains how to administer your BizTalk Server installation on an ongoing basis.

Lessons

- Managing BizTalk Server Operations
- Using message Tracking
- Administering Human Workflow Services
- Backing Up and Restoring BizTalk Server

Administering BizTalk Server

- Managing BizTalk Messaging Services
- Troubleshooting with the Subscription Viewer
- Monitoring Messages
- Monitoring Administrative Tasks by Using WMI Scripts

Tracking and Debugging an Orchestration

- Monitoring an Orchestration

Backing Up and Restoring a BizTalk Server

- Backing Up a BizTalk Server
- Restoring a BizTalk Server
- After completing this module, students will be able to:
 - Manage BizTalk Server operations.
 - Monitor business activity.
 - Administer Human Workflow Services.
 - Back up and restore a BizTalk Server computer.

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Creating and Configuring BizTalk Schemas

This module explains how BizTalk relies on the use of structured documents for every part of its implementation.

Schema basics

- Introduction to BizTalk Schemas
- Creating BizTalk Schemas

Creating BizTalk Schemas

- Creating a New BizTalk Project
- Creating an XML Schema Using the BizTalk Editor
- Promoting Schema Properties
- Creating a Flat File Schema Using the BizTalk Editor
- Validating Schemas and Generating Instance Messages
- Assigning a Strong Name to the Assemblies
- Building the Schema Project

Building Orchestrations

- Correlation sets.
- Orchestration parameters.
- Using Multi parts message types.
- Defining variables.
- Role links - Consumers & providers.
- Addition of role link types.
- Service links types.
- Using Roles.
- Using Parties.
- Party resolution.
- Using a send port group.
- Adding compensations to Orchestrations.
- Throwing and catching exceptions.
- Error handling within an Orchestration scope.

Configuring BizTalk Messaging

This module explains how BizTalk messaging provides a number of ways to route, process, and send messages between business processes.

Messaging Essentials

- Introduction to Messaging
- Enabling Message Routing
- Creating Receive and Send Pipelines

Enabling Message Routing

- Create a Receive Port and a Receive Location
- Create Send Ports and Define Message Filters
- Start the Send Ports and Test the Configuration

Deploying and Testing a BizTalk Solution

This module explains how to install the assemblies (such as maps, schemas, orchestrations, and pipelines) that you create for a BizTalk application on the BizTalk Server computers that will host the application.

Overview of the Deployment options

- Preparing to Deploy a BizTalk Solution
- Using BizTalk Deployment Tools

Tracking BizTalk Messages and error handling

This module explains how the Health and Activity Tracking (HAT) tool is now incorporated inside the BizTalk server administration console:

Using the query tools

- What is Tracking
- Configuring Tracking
- Best Practices for queries and Tracking
- Using a failed messages Send Port
- Enabling routing of failed messages
- Using the orchestration debugger
- Attaching to a process
- Calling custom error handling processes
- Error throwing and catching techniques

Creating Business Transactions

This module explains how orchestration provides a transactional programming model that includes support for both atomic and long-running transactions, as well as nested orchestrations, exception handling, and methods for recovering from failed transactions.

Transaction Essentials

- Creating a Transaction
- Adding Compensation and Handling Exceptions

Creating Transactions

- Configuring Orchestration Properties and Variables
- Create and Configure Transaction Shapes
- Building and Deploying the Orchestration Project
- Starting and Testing the Orchestration

Integrating with Trading Partners

This module explains how to track and manage rules, policies, agreements, and other information about your trading partners.

Integration basics

- Managing Trading Partner Relationships
- Integrating Trading Partners
- Monitoring Business Activity

Enabling Business Partner Integration

- Creating the Logical Port Types
- Creating Role Links
- Configuring Orchestration to use the Business Relationship
- Implementing the Behavior for the Order Process
- Building and Deploying the Order Process Project
- Registering the BizTalk Server with Business Activity Services
- Creating the Seller and Buyer Profiles
- Creating Receive Ports and Starting the Orchestration
- Running the Case study Scenario