

KOENIG SOLUTIONS • COURSE OUTLINE

Biztalk

Learn to design, develop and deploy enterprise integration solutions using Microsoft BizTalk Server.

5 Days

DURATION

23

MODULES

95

TOPICS

COURSE OVERVIEW

Product Appreciation and its application in Enterprise solution space with hands-On exposure. This program provides implementation and solution-level information on BizTalk Server. The program enables participants to learn and develop applications using Microsoft BizTalk Server.

Who Should Attend

Integration Developers

BizTalk Developers

Solution Architects

System Administrators

Application Developers

PREREQUISITES

Pre-requisites for attending Training Program

- Familiarity with the Visual Studio.NET IDE
- Developing Applications using Visual Basic .NET or C# .NET
- Understanding of XML Documents and XML Schemas

TOOLS AND REQUIREMENTS

Training Aids Required

- Hardware Requirements: Pentium IV 2.0 GHz or Higher System / Dual Core
- CD ROM Drive - Recommended DVD ROM Drive
- 4GB RAM or Higher
- 60 GB HDD Minimum
- SVGA Color Monitor
- Trainer's Machine is required to have a Video Projector in addition to the above
- Software Requirements: Windows Server 2012 R2 / Windows 8.1 / Windows 10
- IIS 8.0 / 7.5
- Microsoft Office 2010
- .NET 4.6
- Visual Studio 2015 Ultimate
- SQL Server 2014 Enterprise SP1/ SQL Server 2016
- Microsoft BizTalk Server 2016 with Redistribution File (Trainer will Provide)
- Biztalk Adapter Pack 2.0 (Trainer will Provide)
- ESB Toolkit 2.1 (Trainer will Provide)
- Microsoft XML 4.0 (Trainer will Provide)
- SQLXML 4.0 with Service Pack 1 (Trainer will Provide)

What You Will Learn

- Explain EAI and B2B business scenarios and integration technologies
- Describe the BizTalk Framework architecture and development tools
- Build BizTalk schemas, maps and functoids for message transformation
- Design orchestrations using shapes, messages and error handling
- Configure pipelines for flat-file and message processing
- Implement WCF services and consume them within orchestrations
- Apply correlation sets and convoys for message sequencing
- Configure business rules, BAM, encryption and application deployment

TRAINING APPROACH

The workshop will be 100% Hands-On with each participant having access to system during the session.

COURSE SYLLABUS

23 Modules, 95 Topics

DAY 1

01

Introduction to EAI and B2B

TOPICS

- The EAI Business Scenario
- Integrating with existing Systems
- Managing Interoperability within a system
- The B2B Business Scenario
- Communicating with External Systems
- Technology solutions available to integrate
- Role of XML and Web Services in SOA
- BizTalk and SOA

02

Understanding BizTalk Framework

TOPICS

- BizTalk Framework Architecture
- BizTalk Server 2016 & Visual Studio 2013
- Understanding various BizTalk Development Tools
- The BizTalk Project System
- BizTalk Application concept

03

Creating BizTalk Schemas

TOPICS

- Working with the Schema Tree and XSD View
- Adding / Editing Nodes
- Managing Node Properties
- Working with Schema Commands
- Generating and Validating Instances
- Property Promotion and creation of Property Schema
- Creation of Envelope Schema
- Importing Schemas
- Flat file Schema

04

Creating BizTalk Maps

TOPICS

Source and Destination Schemas · Using the BizTalk Schema Generator · Schema Tree Views · Map Zone View · Creating Links · Understanding Functoids · Functoid Categories

05

Content Based Routing

06

Working with Different Functoids

DAY 2

07

Creating Orchestration Design

TOPICS

- Orchestration Concepts
- Understanding the Orchestration Engine
- Understanding XLANG/s and BPEL
- Understanding Orchestration Shapes
- Using Various Shapes
- Working with Messages in Orchestration
- Orchestration Flow
- Calling .Net Component (DLL)
- Error Handling

08

Health and Activity Tracking Thru BTS Admin Console

TOPICS

Tracking Message Activity · Using the Service Pane · Observing the status of Orchestration · Following path and status of execution · Debugging an Orchestration using HAT · Changes in HAT

09

Pipeline Designer (Working with Flat Files)

TOPICS

Pipelines, Stages and Components · Message Processing with Pipelines · Types of Pipelines and Pipeline Components · Pipeline Templates · Flat-File Wizard

DAY 3**10**

Accessing WCF Services

TOPICS

- Developing WCF Services
- Consuming WCF Services in Orchestration
- Importing and Exporting Bindings
- Enabling WCF Services for BizTalk on Windows Server
- Publishing an Orchestration as a WCF Service
- Using BizTalk WCF Publishing Wizard
- Working with WCF-BasicHttp
- WCF Error Handling (Resume & Suspend)
- Testing published WCF services
- Deploying a published WCF service

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Correlation

TOPICS

- Creating Correlating Schemas
- Creating Correlation Sets
- Initializing correlation sets
- Following correlation sets
- Convoys - Sequential & Parallel
- Zombie Message and Instance
- Tracking instances based on correlation in HAT

12

Aggregation Orchestration Convoys

TOPICS

Parallel · Sequential

13

Custom Pipeline Component

TOPICS

Unzip Component · Excel Unzip Component

14

Custom Map Using XSLT

15

SQL Integration

TOPICS

Using WCF SQL Adapter

USING WCF SQL ADAPTER (SQLBINDING)

Inbound, OutBound, Polling etc

16

Rest Support

TOPICS

JSON Encoder / Decoder · Calling a REST Service (GET, POST)

17

Biztalk Administration

TOPICS

Tracking Messages · Trouble Shootings · Tracking errors

18

Biztalk Error Handling

TOPICS

Routing Failed Messages · Orchestration Error · Delivery Notification

19

Business Rules Composer

TOPICS

Understanding the Business Rules Framework · Business Rules Vocabularies · Business Rules Policies · Integrating Business Rules with Orchestration

20

Business Activity Monitoring (BAM)

TOPICS

- Overview
- BAM Fundamentals & Architecture
- Tracking Profile Editor
- Creating Activities, Views, Milestones, Deployment (Definition File)
- BAM Portal
- Testing

21

Encryption and Signing

TOPICS

- Sending Signed messages (Using Certificate)
- Receiving Signed message and decrypting the message (Using Certificate)

22

Deployment

TOPICS

Generating MSI File · Deploying Biztalk Application on Server · Importing and Exporting Bindings

23

Performance Tips

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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