

Advanced .NET Distributed Application

Course Description

This advanced class focuses on building advanced multi-tier application. You will learn to build and consume web service, a .NET Remote Object, Service Component which are the most popular distribute application.

Course Level

Advanced

Who should attend?

.NET Developer who want to create the distribute or multi-tier Application using Visual Studio 2005

Pre-requisites

Good understanding of Programming .NET Application and .NET framework

Course Objectives

- Using WSE 3.0 to enhance web service functionality
- Encrypt web service data with certificates
- Call remote application using asynchronous
- Create securable MSMQ application

Course Durations

12 Hours

Course Outline

1. Enable WSE in client and server

Add references to WSE assemblies
Edit the Web service proxy class
Add a <soapExtensionTypes> element
Add a <configSections> element

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Enable WSE

2. Digital signature for SOAP message

Sign a SOAP message digitally.
Verify a signed SOAP message.

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Sign SOAP Message

3. Encrypt and decrypt a SOAP message.

Encrypt a SOAP message.
Decrypt an encrypted SOAP message.

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Encrypt SOAP Message

4. Implement a policy for a Web service

Create a policy file manually.
Declare the set of policies in a policy file.
Map policies to SOAP endpoints.
Configure a policy file
Create and enforce a custom policy.
Create policy file by WseConfigEditor3
Set a policy in a client application

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Create WSE Policy

5. Implement filters in a Web service

Add a filter.
Remove a filter.
Shuffle the order of the filters.
Enable the Trace filter.
Create custom input and output filters.

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Web Service Filter

6. Implement WSE SOAP messaging.

Select a protocol.
Implement one-way SOAP messaging.
Implement bidirectional SOAP messaging.
Send the attachments
Receive attachments in a client

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Sending Attachment by Web Service

7. Route SOAP messages using WSE router.

Create a WSE router application.
Configure a WSE router application.
Configure a referral cache for routing.

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Configuring WSE Router

8. Add and verify security credentials.

Add credentials to a SOAP message.
Verify security credentials.

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Implement Security for Web Service

9. Sign and encrypt messages.

Sign a message.

Encrypt a message by using UseEncryption and EncryptionAlgorithm properties.
Handle acknowledgments.

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Encrypt data in message queue

10. Process messages.

Verify a message source by a certificate.
Decrypt a message.

Extract response queue details

Compose and send a response to a response queue.

Apply a rule to a message queue.

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Process message queue

11. Call remoting methods asynchronously.

Implement one-way methods by using the OneWay attribute.

Call a remote method asynchronously.

Implement callback.

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Call remote object asynchronously

12. Events in remoting applications.

Create and fire events.

Implement event handler for the events of a remote object.

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Create remote object event

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