

WCF, develop Web Services in .NET create distributed Windows applications



SII-387 4 Days (28 Hours)

Description

This internship will allow you to master the main Web Service architectures based on SOAP and REST. You will implement clients and web services on different platforms: IIS, WAS, App Fabric, Azure and secure exchanges via different authentication modes.

Who is this training for ?

For whom

Developers, project managers wishing to master SOAP and REST Web Services.

Prerequisites

Aucune

Training objectives

- Evaluate the main Web Services architectures based on SOAP and REST Create SOAP clients and Web services Create REST clients and Web services Develop distributed Windows applications

Training program

Fondamentaux de Windows Communication Framework

- Endpoint ABCs: Address, Binding.
- Hosting a service with IIS, WAS, App Fabric.
- VS-generated ChannelFactory and proxy clients.
- Service version management.
- Service life cycle, concurrency management, sessions.
- Exposure of WS metadata.
- Serialization of data with DataContract, DataMember.
- Practical work Creation of a WCF service and its client.
- Comparison of ChannelFactory and Proxy clients.

Web Services SOAP avancés

- Local and distributed transactions.
- Callbacks.
- Service behaviors.
- Reliability.
- WS testing , traces and debugging.
- Exception transmissions with FaultContract.
- Automatic discovery of the address of services on the local network with ServiceDiscovery and ServiceAnnouncement.
- Services in line with the NetMSMQBindin connection.
- Practical work Creation of a distributed transaction to have consistent data.

Sécurité de WCF

- Message and Transport Security.
- Identity transport and authorizations.
- Available authentication modes.
- Management of roles with MemberShipProvider.
- Windows authentication management.
- Impersonification.
- Hands-on Creating Internet security.

Services REST Web API

- Introduction to REST architectures.
- Controllers, attributes.
- URL routes.
- Content negotiation.
- Self-hosting with Owin.
- Practical work Creation of a Web API service.

WCF Data Service pour des services REST orientés données

- OData and LINQ URLs for queries in URLs.
- Hosting in IIS and self-hosting.
- Secure your WCF Data Services.
- Volume and pagination.
- Fine security by query with QueryInterceptor.
- Practical work Development of a WCF Data server with Entity Framework.

Le Bus de Services Windows Azure

- Azure Service Bus Relay to make firewalls more flexible.
- Hybrid mode for performance.
- One-way messages and request/response.
- BrokeredMessages queues to persist messages in the absence of the consumer.
- Topics and subscriptions.
- Filters.
- Demonstration Bus relay demonstration service and queues.