MS20487 - Developing Windows Azure and Web Services

Microsoft - Microsoft Azure - Virtualizzazione e Cloud

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**-**

Descrizione del corso

In this course, students will learn how to design and develop services that access local and remote data from various sources. Students will also learn how to develop and deploy services to hybrid environments, including on-premises servers and Microsoft Azure.

Programma

Module 1: Overview of service and cloud technologies

- Key Components of Distributed Applications
- Data and Data Access Technologies
- Service Technologies
- Cloud Computing
- Exploring the Blue Yonder Airlines' Travel Companion Application

Module 2: Querying and Manipulating Data Using Entity Framework

- ADO.NET Overview
- Creating an Entity Data Model
- Querying Data
- Manipulating Data

Module 3: Creating and Consuming ASP.NET Web API Services

- HTTP Services

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- Creating an ASP.NET Web API Service
- Handling HTTP Requests and Responses
- Hosting and Consuming ASP.NET Web API Services

Module 4: Extending and Securing ASP.NET Web API Services

- The ASP.NET Web API Pipeline
- Creating OData Services
- Implementing Security in ASP.NET Web API Services
- Injecting Dependencies into Controllers

Module 5: Creating WCF Services

- Advantages of Creating Services with WCF
- Creating and Implementing a Contract
- Configuring and Hosting WCF Services
- Consuming WCF Services

Module 6: Hosting Services

- Hosting Services On-Premises
- Hosting Services in Windows Azure

Module 7: Windows Azure Service Busos

- What Are Windows Azure Service Bus Relays?
- Windows Azure Service Bus Queues
- Windows Azure Service Bus Topics

Module 8: Deploying Services

- Web Deployment with Visual Studio 2012
- Creating and Deploying Web Application Packages
- Command-Line Tools for Web Deploy
- Deploying Web and Service Applications to Windows Azure
- Continuous Delivery with TFS and Git
- Best Practices for Production Deployment

Module 9: Windows Azure Storage

- Introduction to Windows Azure Storage
- Windows Azure Blob Storage
- Windows Azure Table Storage
- Windows Azure Queue Storage
- Restricting Access to Windows Azure Storage

Module 10: Monitoring and Diagnostics

- Performing Diagnostics by Using Tracing
- Configuring Service Diagnostics
- Monitoring Services Using Windows Azure Diagnostics
- Collecting Windows Azure Metrics

Module 11: identity Management and Access Control

- Claims-based identity Concepts
- Using the Windows Azure Access Control Service
- Configuring Services to Use Federated identities
- Handling Federated identity on the Client Side

Module 12: Scaling Services

- Introduction to Scalability
- Load Balancing
- Scaling On-Premises Services with Distributed Cache
- Windows Azure Caching
- Caveats of Scaling Services
- Scaling Globally

Module 13: Appendix A: Designing and Extending WCF Services

- Applying Design Principles to Service Contracts
- Handling Distributed Transactions
- Extending the WCF Pipeline

Module 14: Appendix B: Implementing Security in WCF Services

- Introduction to Web Services Security
- Transport Security

- Message Security
- Configuring Service Authentication and Authorization