

Kurs-Dokumentation



Zentrum für Informatik ZFI AG

Windows Azure Solutions with Microsoft Visual Studio 2010 (NWAZ-0312) -IT Ausbildung nach Mass

<http://www.zfi.ch/NWAZ-0312>

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Titel	Windows Azure Solutions with Microsoft Visual Studio 2010
Untertitel	Einführung in Cloud Computing für Entwickler
Einleitung	Unternehmen begreifen die Cloud (das Internet und die zugrunde liegende Infrastruktur) immer mehr als eine wichtige Komponente ihrer Entwicklungsstrategie. Dafür gibt es einfache Gründe mit grossen Auswirkungen. Vom Reduzieren der Kosten für die Infrastruktur und das IT-Personal, die für die Beschaffung und Wartung einer Computerinfrastruktur erforderlich sind, bis zu dem Argument, nur für die tatsächlich verbrauchten Computerressourcen zu zahlen, gibt es viele Aspekte, die die Cloud immer weiter an Bedeutung gewinnen lassen. Mit der Azure-Plattform bietet Microsoft den Entwicklern eine Cloud mit Tools, die zum Erstellen neuer Applikationen benötigt werden sowie Tools zur Erweiterung bestehender Anwendungen, die somit von der Leistungsfähigkeit der Cloud profitieren.
Ihr Nutzen	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> - Understand cloud computing in its various forms and how Windows Azure fits in the cloud computing space. - Learn why organizations want to run applications in the Azure cloud. - Understand the architecture of Azure. - Explore the Azure SDK and DevFabric development environment. - See how to develop applications for Azure and how that varies from "normal" .NET application development. - Write and deploy a ASP.NET Web application (Web Role) to Azure. - Explore Azure storage capability. - Learn how to create and deploy background computational applications (Worker Role) in Azure. - Explore SQL Azure capability.
Voraussetzungen	<p>Before attending this course, students must have:</p> <ul style="list-style-type: none"> - Experience with Visual Studio 2008 or better - Knowledge and experience in a .NET language (C# or VB) - Knowledge of ASP.NET
Teilnehmerkreis	This class is designed for .NET developers with Web application experience that are exploring developing new applications or porting existing applications to Windows Azure
Unterlagen	Original Microsoft-Unterlagen
Folgekurse	andere Kurse aus dem Bereich Spezialisierung, siehe Bildungsweg
Inhalt	<p>- Cloud Computing Define cloud computing Learn the benefits of cloud computing Understand the different types of cloud computing services Explore where computing clouds might exist Hear about potential concerns with cloud computing Learn where cloud computing can and cannot be applied Place Windows Azure in light of general cloud computing Know how Windows Azure compares to other cloud environments</p> <p>Windows Azure Architecture See a simple Windows Azure application Learn about the Microsoft data centers Explore the hardware,</p>

servers and virtualization (the Fabric) that host cloud applications and data
Understand the role of the Fabric Controller in managing the Windows Azure cloud
Know the general architecture and components of the Windows Azure Platform
Understand the tools used to create and deploy Windows Azure services and data stores

Windows Azure Web Roles
Explore the purpose of Windows Azure Web roles.
Understand how to create Web roles in a cloud service project
See how to configure a Web role
Learn how to test Web roles run in the Dev Fabric
Start exploring the Windows Azure API

Local Storage
Examine Windows Azure local storage
See how local storage differs from normal server file systems
Learn how to configure local storage.
Understand the limitations of local storage and where/when to use it
Explore the API to access local storage
Learn about Windows Azure Drive (formerly X-Drive)

Windows Azure Storage and Queues
Understand the purpose of Windows Azure Storage
Learn how to create a Windows Azure Storage account
Explore Windows Azure Storage costs
Understand Dev Storage, how to use it, and how it is different from Windows Azure Storage
See how to access Windows Azure Storage using both the REST API and the Storage Client Library
Examine Windows Azure Storage Queues
Learn how to get messages in and out of Windows Azure Queues

Blob Storage
Understand the rationale for using blob storage
Explore how to access blob storage with both the Storage Client and REST API
Examine blob storage containers and how they are used to organize and control access to blobs
Learn about the different types of blobs: block and page blobs.

Table Storage
Explore Windows Azure Storage's structural data service
Understand the reason for table storage
Examine the differences between table storage and traditional relational databases (as exhibited by SQL Azure)
Learn how to access table storage with both the Storage Client and REST API
Understand entities as they relate to table storage
Examine how to save and retrieve entities in table storage
See how to use table storage for session management in Windows Azure Web applications

Worker Roles
Explore the purpose of Windows Azure worker roles
Understand how to create worker roles in a cloud service project
See how to configure a worker role
Learn how to test worker roles run in the Dev Fabric
Explore how to setup worker role endpoints
Learn how to communicate with worker role internal and input endpoints

SQL Azure
Learn what SQL Azure is and why you want to use it
Understand SQL Azure in comparison to SQL Server and Windows Azure table storage
Learn how to provision a SQL Azure server and databases
Examine costs associated with SQL Azure
See how to use familiar tools and APIs to work in SQL Azure
Explore how to create and

manage database objects in SQL Azure
Know how to limit SQL Azure access
Understand options for performing database backups
See how to migrate data to SQL Azure

Diagnostics and Logging
Learn how to accomplish debugging and logging in Windows Azure
Examine Windows Azure Diagnostic Service
Understand the role of the MonAgentHost process in the diagnostic service
Learn how to configure the diagnostic service
See how to transfer diagnostic data to Windows Azure Storage

Beitrag

Der Teilnehmerbeitrag versteht sich rein netto. Das ZFI ist (gemäss MwSt-Gesetz) nicht Mehrwertsteuerpflichtig und erhebt somit keine MwSt. Bei länger als einen Monat dauernden Lehrgängen ist die Zahlung des Teilnehmerbeitrages in mehreren Raten möglich (pro rata temporis).

Bildungsweg Visual Studio .NET

