

AZ-204

Developing Solutions for Microsoft Azure

Dieses Training hat das Ziel Developern näherzubringen, wie sie End-to-End-Lösungen in Microsoft Azure erstellen können. Die Teilnehmenden lernen, wie sie Azure-Computerlösungen implementieren, Azure-Funktionen erstellen, Web-Apps implementieren und verwalten, Lösungen unter Verwendung von Azure-Speichern entwickeln, Authentifizierung und Autorisierung implementieren und ihre Lösungen mit Hilfe von KeyVault und Managed Identities sichern. Die Teilnehmenden lernen auch, wie sie sich mit Azure-Services und Services von Drittanbietern verbinden und diese nutzen können und wie sie ereignis- und nachrichtenbasierte Modelle in ihre Lösungen integrieren können. Der Kurs behandelt auch die Überwachung, Fehlerbehebung und Optimierung von Azure-Lösungen. Empfohlenes Training für die Zertifizierung zum: Microsoft Certified: Azure Developer Associate

Kursinhalt

- Erstellen von Azure App Service
- WebAppsAzure-Funktionen implementieren
- Lösungen entwickeln, die Blob-Speicher verwenden
- Lösungen entwickeln, die Cosmos-DB-Speicher verwenden
- IaaS-Lösungen implementieren
- Benutzeroauthentifizierung und -autorisierung implementieren
- Sichere Cloud-Lösungen implementieren
- API-Verwaltung implementieren
- App-Service-Logic-Apps entwickeln
- Entwicklung ereignisbasierter Lösungen
- Nachrichtenbasierte Lösungen entwickeln
- Azure-Lösungen überwachen und optimieren
- Caching und Inhaltsbereitstellung in Lösungen integrieren

E-Book Die originalen Microsoft-Kursunterlagen werden Ihnen online zur Verfügung gestellt.

Zielgruppe

Die Teilnehmer dieses Kurses sind an der Entwicklung von Azure oder an der Zertifizierungsprüfung Microsoft Azure Developer Associate interessiert.

Voraussetzungen

Die Teilnehmer sollten 1-2 Jahre Erfahrung als Entwickler haben. Dieser Kurs setzt voraus, dass die Teilnehmer mit der Programmierung vertraut sind und übergrundlegende Kenntnisse von Azure verfügen. Es wird empfohlen, dass die Schüler über einige Erfahrungen mit PowerShell oder Azure CLI, der Arbeit im Azure-Portal und mit mindestens einer von Azure unterstützten Programmiersprache verfügen. Die meisten Beispiele in diesem Kurs werden in C\# .NET vorgestellt.

Dieser Kurs im Web

 Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.at/go/MZ24

Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training	Preise zzgl. MwSt.
Termine in Österreich	5 Tage € 2.995,-
Online Training	5 Tage € 2.995,-
Termin/Kursort	Kurssprache Deutsch 
23.06.-27.06.25	ONLINE
28.07.-01.08.25	ONLINE
08.09.-12.09.25	ONLINE
27.10.-31.10.25	ONLINE

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Inhaltsverzeichnis

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Implement solutions that use virtual machines Students will learn how to properly plan for VM deployment. It covers VM creation by using the Azure Portal, PowerShell, and through code. It also covers creating and using ARM templates for repeatable deployments and how to use Azure Disk Encryption to secure information on the VM. Lessons Provision VMs Create ARM templates Configure Azure Disk Encryption for VMs	Azure Table storage is a service that stores structured NoSQL data in the cloud, providing a key/attribute store with a schemaless design. Because Table storage is schemaless, it's easy to adapt your data as the needs of your application evolve. Lessons Azure Table storage overview Authorization in Table storage Table service REST API	Develop code to support scalability of apps and services This module covers how applications scale and how to handle some troubleshooting. Lessons Implement autoscale Implement code that addresses singleton application instances Implement code that handles transient faults
Implement batch jobs by using Azure Batch Services Azure Batch creates and manages a pool of compute nodes (virtual machines), installs the applications you want to run, and schedules jobs to run on the nodes. Lessons Azure Batch overview Run a batch job by using the Azure CLI and Azure Portal Run batch jobs by using code Manage batch jobs by using the Batch Service API	Develop solutions that use Azure Cosmos DB storage This module covers Azure Cosmos DB storage. It instructs students on how it works, how to manage containers and items, and create and update documents by using code. Lessons Azure Cosmos DB overview Managing containers and items Create and update documents by using code	Instrument solutions to support monitoring and logging This module covers adding code to your app to send the data to Azure Monitor. Lessons Configure instrumentation in an app or server by using Application Insights Analyze and troubleshoot solutions by using Azure Monitor
Create containerized solutions You can build and run modern, portable, microservices-based applications that benefit from Kubernetes orchestrating and managing the availability of those application components. Kubernetes supports both stateless and stateful applications as teams progress through the adoption of microservices-based applications. Lessons Create an Azure Managed Kubernetes Service (AKS) cluster Create container images for solutions Publish an image to the Azure Container Registry Run containers by using Azure Container Instance or AKS	Develop solutions that use a relational database SQL Database is a general-purpose relational database managed service in Microsoft Azure that supports structures such as relational data, JSON, spatial, and XML. Lessons Azure SQL overview Create, read, update, and delete database tables by using code	Integrate caching and content delivery within solutions This module shows students how to leverage Azure Cache for Redis and Azure CDNs to deliver assets to users more quickly. Lessons Azure Cache for Redis Develop for storage on CDNs
Create App Service web apps Azure App Service Web Apps (or just Web Apps) is a service for hosting web applications, REST APIs, and mobile back ends. Web Apps not only adds the power of Microsoft Azure to your application, such as security, load balancing, auto-scaling, and automated management. Lessons Azure App Service core concepts Creating an Azure App Service web app Creating background tasks by using WebJobs in Azure App Service	Develop solutions that use Microsoft Azure Blob storage Azure Blob storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that does not adhere to a particular data model or definition, such as text or binary data. Lessons Azure Blob storage overview Working with Azure Blob storage	Develop an App Service Logic App Logic Apps helps you build solutions that integrate apps, data, systems, and services across enterprises or organizations by automating tasks and business processes as workflows. This module covers what they are and how to create them. Lessons Azure Logic Apps overview Create Logic Apps by using Visual Studio Create custom connectors for Logic Apps Create custom templates for Logic Apps
Creating Azure App Service mobile apps The Mobile Apps feature of Azure App Service gives enterprise developers and system integrators a mobile-application development platform that's highly scalable and globally available. Lessons Getting started with mobile apps in App Service Enable push notifications for your app Enable offline sync for your app	Implement authentication Microsoft identity platform is an evolution of the Azure Active Directory (Azure AD) identity service and developer platform. It allows developers to build applications that sign in all Microsoft identities, get tokens to call Microsoft Graph, other Microsoft APIs, or APIs that developers have built. Lessons Microsoft identity platform Implement OAuth2 authentication Implement managed identities for Azure resources Implement authentication by using certificates, forms-based authentication, or tokens Implement multi-factor authentication	Integrate Azure Search within solutions Azure Search is a search-as-a-service cloud solution that gives developers APIs and tools for adding a rich search experience over private, heterogeneous content in web, mobile, and enterprise applications. In this module students will learn how to integrate Azure Search in their solutions. Lessons Create and query an Azure Search Index Full text search in Azure Search
Create Azure App Service API apps This module covers how to create and document an Azure App Service API. Lessons Creating APIs Using Swagger to document an API	Implement access control This module covers claims-based and role-based access control. Lessons Claims-based authorization Role-based access control (RBAC) authorization	API Management API Management (APIM) helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services. Lessons Introduction to the API Management service Securing your APIs Defining API policies
Implement Azure Functions Azure Functions is a solution for easily running small pieces of code, or "functions," in the cloud. You can write just the code you need for the problem at hand, without worrying about a whole application or the infrastructure to run it. Lessons Azure Functions overview Develop Azure Functions using Visual Studio Implement durable functions	Implement secure data solutions This module covers securing data at rest and during transmission. Lessons Encryption options End-to-end encryption Implement Azure confidential computing Manage cryptographic keys in Azure Key Vault	Develop event-based solutions This module covers developing event-based solutions in Azure by integrating Azure Event Grid, Event Hubs, and Notification Hubs in your applications. Lessons Implement solutions that use Azure Event Grid Implement solutions that use Azure Event Hubs Implement solutions that use Azure Notification Hubs
Develop solutions that use Azure Table storage	Introduction to Azure Monitor Azure Monitor is the central service that includes all of tools you need to monitor and optimize your solution. Lessons Overview of Azure Monitor	Develop message-based solutions Microsoft Azure Service Bus is a fully managed enterprise integration message broker. Service Bus is most commonly used to decouple applications and services from each other, and is a reliable and secure platform for asynchronous data and state transfer. Azure Queue storage is a service for storing large numbers of messages that can be accessed from anywhere in the world via authenticated calls using HTTP or HTTPS. Lessons Implement solutions that use Azure Service Bus Implement solutions that use Azure Queue Storage queues

