

Azure ist Microsofts Cloud-Computing-Plattform mit dem Cloud-Betriebssystem Windows Azure und anderen Diensten wie SQL Azure oder AppFabric.

### Ihr Nutzen

In diesem Seminar erlernen Sie die Entwicklung von Azure basierenden Anwendungen. Von der Wahl der richtigen Komponenten über die Entwicklung von Storage Apps und PaaS Lösungen bis hin zur Entwickler-Security in Azure.

### Preis pro Teilnehmer

EUR 2950,- exklusive der gesetzlichen MwSt.

### Seminardauer

5 Tag(e)/Day(s)

### Seminarinhalte

1. Tag:

- \* Creating Azure App Service Web Apps
- Azure App Service core concepts
- Creating an Azure App Service Web App
- Configuring and Monitoring App Service apps
- Scaling App Service apps
- Azure App Service staging environments

- \* Implement Azure functions
- Azure Functions overview
- Developing Azure Functions
- Implement Durable Functions

- \* Develop solutions that use blob storage
- Azure Blob storage core concepts
- Managing the Azure Blob storage lifecycle
- Working with Azure Blob storage

2. Tag:

- \* Develop solutions that use Cosmos DB storage
- Azure Cosmos DB overview
- Azure Cosmos DB data structure
- Working with Azure Cosmos DB resources and data

- \* Implement IaaS solutions
- Provisioning VMs in Azure
- Create and deploy ARM templates
- Create container images for solutions
- Publish a container image to Azure Container Registry
- Create and run container images in Azure Container Instances

- \* Implement user authentication and authorization
- Microsoft Identity Platform v2.0
- Authentication using the Microsoft Authentication Library
- Using Microsoft Graph
- Authorizing data operations in Azure Storage

3. Tag:

- \* Implement secure cloud solutions
- Manage keys, secrets, and certificates by using the KeyVault API
- Implement Managed Identities for Azure resources
- Secure app configuration data by using Azure App Configuration

### Voraussetzungen

Kenntnisse einer Azure fähigen Programmiersprache (C#, Node.js, CLI, PowerShell oder JavaScript)

### Hinweise

AZ-204,

Version: N/A

- \* Implement API Management
- API Management overview
- Defining policies for APIs
- Securing your APIs

4. Tag:

- \* Develop App Service Logic Apps
- Azure Logic Apps overview
- Creating custom connectors for Logic Apps

- \* Develop event-based solutions
- Implement solutions that use Azure Event Grid
- Implement solutions that use Azure Event Hubs
- Implement solutions that use Azure Notification Hubs

- \* Develop message-based solutions
- Implement solutions that use Azure Service Bus
- Implement solutions that use Azure Queue Storage queues

5. Tag:

- \* Monitor and optimize Azure solutions
- Overview of monitoring in Azure
- Instrument an app for monitoring
- Analyzing and troubleshooting apps
- Implement code that handles transient faults

- \* Integrate caching and content delivery within solutions
- Develop for Azure Cache for Redis
- Develop for storage on CDNs

