Architecting Microsoft Azure Solutions (MOC20535)

Seminar | Zurzeit keine Termine | Teilnahmebescheinigung

Präsenz | 40 Unterrichtseinheiten

Seminarnummer: 29477 | Herstellernummer: MOC20535

Stand: 15.09.2025. Alle aktuellen Informationen finden Sie unter https://akademie.tuv.com/s/29477

Cloud basierende Lösungen für IaaS, PaaS oder SaaS Infrastrukturen benötigen ein gut geplantes Design, damit durch sie die geforderten Geschäftserfolge zu erreichen sind.

DIESES SEMINAR WIRD DURCH DAS NEUE SEMINAR AZ-300 MIT DER SEMINARNUMMER 29496 ANGELÖST. TERMINE SIND VERFÜGBAR.

Nutzen

This course is intended for architects who have experience building infrastructure and applications on the Microsoft Azure platform. Students should have a thorough understanding of most services offered on the Azure platform. The students typically work for organizations that have an active solution on Azure and are planning to enhance existing solutions or deploy more solutions to the Azure platform. This course also is intended for architects who want to take the Microsoft Certification exam, 70-535, Architecting Microsoft Azure Solutions.

Zielgruppe

This course is intended for students who have experience building infrastructure and applications on the Microsoft Azure platform. Students should have a thorough understanding of most services offered on the Azure platform. For the interactive component, this course offers students the opportunity to deploy Azure solutions using built-in DevOps tools such as Azure Resource Manager templates, deployments, resource groups, tags and Role-Based Access Control. The candidates targeted by this training have intermediate experience in designing, implementing and monitoring Azure solutions. Candidates are also proficient with the tools, techniques, and approaches used to build solutions on the Azure platform.

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Voraussetzungen

Before attending this course, students must have the following technical knowledge:

- Create resources and resource group in Azure.
- Manage users, groups, and subscriptions in an Azure Active Directory instance.
- Build an Azure Virtual Machine with related resources.
- Manage containers and blobs stored in an Azure Storage account.
- Create App Service Plans and manage apps related to the plan.
- Configure an Azure Virtual Network and enable S2S and P2S connectivity.
- Protect networked application components using Network Security Groups.
- Automate everyday Azure resource tasks using Azure CLI or Azure PowerShell.
- Deploy an Azure SQL, MySQL, Postgres or Cosmos database instance.
- Monitor existing Azure solutions using built-in metrics, Application Insights, or Operational Insights.

Wir empfehlen vorab die Teilnahme an den Seminaren MOC20532 und MOC20533.

Inhalte des Seminars

Module 1: Application Architecture Patterns in Azure

This module introduces and reviews common Azure patterns and architectures as prescribed by the Microsoft Patterns & Practices team. Each pattern is grouped into performance, resiliency, and scalability categories and described in the context of similar patterns within the category.

Lessons

- Pattern Resources
- Performance Patterns
- Resiliency Patterns
- Scalability Patterns
- Data Patterns

Module 2: Deploying Resources with Azure Resource Manager

This module establishes a basic understanding of Azure Resource Manager and the core concepts of deployments, resources, templates, resource groups, and tags. The module will dive deeply into the automated deployment of resources using ARM templates.

Lessons

- ARM Templates
- Role-Based Access Control (RBAC)

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- Resource Policies
- Security
- Building Blocks

Module 3: Building Azure IaaS-Based Server Applications

This module identifies workloads that are ideally deployed using Infrastructure-as-a-Service services in Azure. The module focuses on the VM Scale Sets and Virtual Machine services in Azure and how to best deploy workloads to these services using best practices and features such as Availability Sets.

Lessons

- High Availability
- Templated Infrastructure
- Domain-Connected Machines

Module 4: Creating Managed Server Applications in Azure

This module describes services that use infrastructure but manage the infrastructure on behalf of the user instead of obfuscating the infrastructure resources. The module focuses on infrastructure-backed PaaS options such as Azure Service Fabric, Container Service, and App Service Environments. The module will explore how to deploy custom workloads to these services such as an HPC batch processing task.

Lessons

- Infrastructure-Backed Platform-as-a-Service (PaaS)
- High-Performance Compute (HPC)
- Migration

Module 5: Authoring Serverless Applications in Azure

This module describes how solutions can leverage serverless application hosting services in Azure to host web applications, REST APIs, integration workflows and HPC workloads without the requirement to manage specific server resources. The module focuses on App Services-related components such as Web Apps, API Apps, Mobile Apps, Logic Apps, and Functions.

Lessons

- Azure Web App
- Azure Functions
- Integration
- High Performance

Module 6: Backing Azure Solutions with Azure Storage

This module describes how many Azure services use the Azure Storage service as a backing store for other application solution in Azure. The module dives into critical considerations when using Azure

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Storage as a supplemental service for an all-up Azure solution.

Lessons

- Pricing
- Blob Storage
- Files
- StorSimple

Module 7: Comparing Database Options in Azure

This module compares the various relational and non-relational data storage options available in Azure. Options are explored as groups such as relational databases (Azure SQL Database, MySQL, and PostgreSQL on Azure), non-relational (Azure Cosmos DB, Storage Tables), streaming (Stream Analytics) and storage (Data Factory, Data Warehouse, Data Lake).

Lessons

- Relational
- NoSQL Services
- Azure Cosmos DB
- Data Storage
- Data Analysis

Module 8: Networking Azure Application Components

This module describes the various networking and connectivity options available for solutions deployed on Azure. The module explores connectivity options ranging from

Wichtige Hinweise

Microsoft und wir ersetzen ab Dezember 2018 den Azure MOC20535 durch die neuen Microsoft Seminare MOC-AZ-300 und MOC-AZ-301, die auf den neuen jobrollenorientierten Abschluss zum Microsoft Certified Azure Architect Expert vorbereiten! Die Seminarnummern sind 29496 bzw. 29497. Die MOC2053x Seminare werden 2019 aus dem Angebot genommen, die jetzigen MCSA Examen 70-75x sind dann auch bei Pearson VUE nicht mehr verfügbar und durch die Examen AZ-x00 und AZ-x01 ersetzt.

Personen mit 70-75x basierenden MCSA Zertifizierungen können ihren Abschluss mit einer AZ-x02 Transitionprüfung updaten.

Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter https://akademie.tuv.com/s/29477 und profitieren Sie von diesen Vorteilen:

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