

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack, On Demand 20537

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Seminar



Zurzeit keine Termine



Teilnahmebescheinigung



E-Learning



40 Unterrichtseinheiten

Seminarnummer: 29488 | Herstellernummer: OD20537

Stand: 06.05.2024. Alle aktuellen Informationen finden Sie unter <https://akademie.tuv.com/s/29488>

This On Demand online training will provide students with the key knowledge required to deploy and configure Microsoft Azure Stack.

Nutzen

Using trainer presentations and hands-on labs, you will learn the following skills:

- The key features and functionality of Microsoft Azure Stack.
- The differences between Microsoft Azure Stack, Microsoft Azure and Windows Azure Pack.
- The architecture and components of Microsoft Azure Stack.
- How to deploying Microsoft Azure Stack.
- Windows Server Roles and Features used in Microsoft Azure Stack.
- How identity and authentication works in Microsoft Azure Stack.
- How Microsoft Azure Stack enables DevOps.
- How to create and manage Azure Resource Manager templates.
- How to create and manage Plans.
- How to create and manage Offers and Delegation.
- Manage the Marketplace in Microsoft Azure Stack.
- Software Defined Networking in Microsoft Azure Stack.
- Understand how storage is provisioned and managed in Microsoft Azure Stack.
- How to provision Virtual Machines in Microsoft Azure Stack.
- Configuring Resource Providers in Microsoft Azure Stack.
- How to monitor and troubleshoot Microsoft Azure Stack.
- Understand how licensing and billing works in Microsoft Azure Stack.

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Zielgruppe

This course is intended for service administrators, devops and cloud architects who are interested in using Microsoft Azure Stack to provide cloud services to their end-users or customers from within their own datacenter.

Voraussetzungen

Before attending this On Demand online training, students must have:

- Working knowledge of Windows Server 2016.
- Working knowledge of SQL Server 2014, 2016 or 2017.
- Working knowledge of Microsoft Azure, like it is trained in MOC20533 or On Demand OD20533.

Inhalte des Seminars

Module 1: Overview of Azure Stack

In this first module, the key concepts associated with Azure Stack are described that will help you understand what Azure Stack is and the functionality it provides. You will also learn about the differentiators between Azure Stack, Microsoft Azure and Windows Azure Pack.

Lessons

- What is Azure Stack?
- Comparing Azure Stack with Microsoft Azure.
- Comparing Azure Stack to Windows Azure Pack.

Module 2: Foundational Components of Microsoft Azure Stack

In this module, you will learn about the Windows Server 2016 features that Azure Stack uses and optional System Center 2016 components that can be added to further manage and maintain an Azure Stack environment. You will also learn how Azure Stack manages authentication and the various authentication providers that are available.

Lessons

- Windows Server 2016 and System Center 2016.
- Identity and Authentication.

Module 3: Deploying Microsoft Azure Stack

This module introduces some of the internal architecture of Azure Stack and how it forms the basis of the system. It will discuss various Azure Stack concepts such as:

- Software Defined Datacenter
- Internal Architecture of Azure Stack
- Azure Stack Infrastructure
- Azure Stack Prerequisites
- Planning and Installation of Azure Stack

Lessons

- Microsoft Azure Stack Architecture
- Azure Stack Prerequisites
- Installing Azure Stack

Module 4: Offering Microsoft Azure Stack Resources

This module discusses some of the key features in Azure Stack that provide the mechanisms used by tenants when consuming resources such as virtual machines and SQL Server databases.

Lessons

- Working with Plans and Offers.
- Microsoft Azure Stack Marketplace.
- Enabling Multi-Tenancy in Azure Stack.
- Integrating Azure Stack with Windows Azure Pack.

Module 5: Microsoft Azure Stack and DevOps

This module discusses the fundamentals of how Azure Stack enables organizations to leverage DevOps. It details the underpinnings of Azure Stack, the Azure Resource Manager, the SDKs and APIs available and also how configuration management technologies such as PowerShell Desired State Configuration, Chef and Puppet can be used to facilitate fast and consistent deployment of applications along with stability.

Lessons

- Technologies used in Microsoft Azure Stack for DevOps.
- Azure Resource Manager Templates.
- Third-party Resource Providers.

Module 6: Infrastructure as a Service and Microsoft Azure Stack

This module discusses Infrastructure as a Service in Azure Stack. This covers the following areas:

- Software Defined Datacenter
- Hyper-V Network Virtualization
- External Connectivity to Azure Stack
- Azure Consistent Storage in Azure Stack
- Virtual Machines in Azure Stack

Lessons

- Software Defined Networking improvements with Microsoft Azure Stack and Windows Server 2016.
- Azure Stack Storage.
- Virtual Machines in Microsoft Azure Stack.

Module 7: Platform as a Service and Microsoft Azure Stack

Stack brings Platform as Service (PaaS) based offerings from Microsoft Azure to Azure Stack. Microsoft Azure was originally designed for PaaS based application development with IaaS based services added later. With the initial release of Azure Stack, Microsoft are offering 4 PaaS based services: SQL and MySQL Databases App Service for websites Key Vault for securely storing secrets such as passwords and certificates Azure Functions for serverless compute This Module will detail each offering and show how these can be utilized.

Less

Wichtige Hinweise

MOC On Demand Trainings sind original Microsoft Trainings, in denen Sie zeit- und ortsungebunden lernen können. Diese Trainings enthalten:

- Zugang zum offiziellen Microsoft Video on Demand Kurs für 90 Tage ab dem ersten Zugriff.
- Einen Lab-Online-Zugang für praktische Übungen, der ab Kauf 6 Monate gültig ist.
- Eine originale MOC Schulungsunterlage in digitaler Form, wie sie auch in den Live-Trainings eingesetzt wird.

Weitere Details entnehmen Sie unserer MOC On Demand Landingpage unter www.tuv.com/Microsoft

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Buchen Sie Ihren Wunschtermin jetzt direkt online unter <https://akademie.tuv.com/s/29488> und profitieren Sie von diesen Vorteilen:

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Alternativ können Sie das Bestellformular verwenden, um via Fax oder E-Mail zu bestellen.