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AZURE FUNDAMENTALS

3 DAYS

During this course, students will be introduced to the principles of cloud computing and will become familiar with how these principles have been implemented in Microsoft Azure. In addition, this course will take students through the process of implementing the core Azure infrastructure, consisting of virtual networks and storage. With this foundation, students will learn how to create the most common Azure services, including Azure virtual machines (VMs), Web Apps, and SQL Databases. The course will conclude by describing features of Azure Active Directory (Azure AD) and methods of integrating it with on-premises Active Directory.

Modül 1: Getting Started with Microsoft Azure

What Is Cloud Computing?

What Is Azure?

Managing Azure

Subscription management, support, and billing

Lab 1: Using the Azure portals

Customizing the Azure portal interface

Viewing billing, usage, and quotas data

Modül 2: Microsoft Azure management tools

What is Azure PowerShell

The Azure SDK and the Azure CLI

Lab 2: Using Microsoft Azure management tools

Using the Azure PowerShell modules

Use the Azure CLI

Modül 3: Virtual machines in Microsoft Azure

Creating and configuring VMs

Configure disks

Lab 3: Using Microsoft Azure management tools

Create a VM from the Azure Portal by using an Azure Marketplace image

Verify the functionality of the VM

Configure storage of a VM

Modül 4: Web Apps and cloud services

- Creating and configuring web apps
- Deploying and monitoring web apps
- Creating and deploying PaaS cloud services

Lab 4: Web Apps and cloud services

- Creating and configuring a WordPress web app
- Create a cloud service

Modül 5: Creating and configuring virtual networks

- Getting started with virtual networks
- Creating a virtual network
- Getting started with Azure Load Balancers

Lab 5: Create a virtual network

- Creating a virtual network
- Verifying virtual network functionality

Modül 6: Cloud storage

- Understanding cloud storage
- Create and manage storage

Lab 6: Configure Azure Storage

- Create an Azure Storage account
- Create and manage blobs

Modül 7: Microsoft Azure databases

- Understanding options for relational database deployment
- Creating and connecting to Azure SQL databases

Lab 7: Creating a SQL Database in Azure

- Create a new Azure SQL database in Azure and configure SQL Server firewall rules
- Manage content of an Azure SQL database by using SQL Server Management Studio

Modül 8: Creating and managing Azure AD

- Overview of Azure AD
- Manage Azure AD authentication

Lab 8: Create users in Azure Active Directory tenants

- Create users in Azure AD
- Create a new Azure AD Tenant and a custom DNS domain