Active Directory unter Windows Server 2016 / 2019 / 2022 (ADWS22)

ID ADWS22   **Price** 2,990.— €(excl. tax)   **Duration** 5 days

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Course Overview

- Innovations Windows Server 2022, object model private/public cloud
- Edition of Windows Server 2022 and installing Windows Server
- Windows Server and its management tools (Windows Admin Center)
- Installation and configuration of Domain Controllers
- Set up DNS, AD DS sites and replication
- Overview of the management of complex AD DS infrastructures
- Manage objects in Active Directory Domain Services
- Implement group policies
- Manage user settings with group policies
- Monitor, manage and recover AD DS

Who should attend

- This seminar is aimed at IT professionals who are or will be responsible for the design, implementation and management of a (virtualized) Microsoft client-server infrastructure. S
- Through hands-on exercises, they will learn how to install, configure, manage and maintain client-server structures on Windows Server 2022 (Server 2016 / 2019) using identity and access technology around Active Directory (Azure Active Directory)
- Focus on identity and access technologies around Active Directory but also new features in Windows Server - Storage Solution, Cluster, WSL2 and Container

Prerequisites

- Professional experience with Windows client operating systems such as Windows 7, 8 and Windows 10.
- Experience with Windows Server Systems 2012 / 2016 / 2019 / 2022

- Basic knowledge of operating client-server environments.
- Understanding of basic networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP) and virtualization.

Course Content

Introduction to Active Directory

- Active Directory Domain Services Overview
- Basic terms and concepts
- Active Directory Domänencontroller

Installation, Konfiguration Domain Controller, DNS und AD DS Sites

- Installation and configuration of domain controllers
- Implement DNS servers
- Configure zones in DNS
- Name Resolution and DNS Integration with Active Directory Domain Services (AD DS)
- Configure advanced DNS settings
- AD DS replication overview
- Configure AD DS sites
- Configuration and monitoring of AD DS replication

Management tools, PowerShell and Active Directory management

- Management tools for AD environments
- PowerShell vs. GUI
- Remote management via Server Manager, RDP and PowerShell
- Use of command line tools
- Using Windows PowerShell
- Bulk Operations using Windows
- Perform PowerShell

Storage, file management and AD DS infrastructures

- Storage Solution Storage Space, SMB and iSCSI Storage
- Storage Migration Service
- Managing user accounts, groups and computer accounts
- Delegation of administration

- Performing Bulk Operations Using Windows PowerShell
- Overview of advanced AD DS environments
- Configuring AD DS Trusts

Group Policy implementation and management

- Introduction to Group Policies
- Implement and manage GPOs
- Scope and processing of group policies
- Troubleshooting the Application of Group Policy Objects
- Set up Central Store and configure administrative templates
- Konfiguration von Group Policy Preferences (GPP)
- Configuration of security settings, software installation and scripts

Manage, monitor, maintain and secure Active Directory

- Manage user settings with group policies
- Implement account security
- Monitoring AD DS
- Managing the Active Directory database
- Active Directory backup and restore options for AD DS

Privat- und Public-Cloud mit Active Directory und Azure Active Directory

- Windows Admin Center and advanced management of hybrid environments
- Object Model Private/Public Cloud - Connecting WAC to Azure Cloud
- Implementing recovery solutions with Azure Public Cloud

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