

Configuration/Administration of Windows Server 2022 (with Hyper-V, AD DS and Azure) (WS22GA)

ID WS22GA Price 2,990.— €(excl. tax) Duration 5 days

Course Overview

- Innovations Windows Server 2022, object model private/public cloud
- Edition of Windows Server 2022 and installation of Windows Server
- Windows Server and its management tools (Windows Admin Center)
- Installation and configuration of domain controllers
- Overview of the management of complex AD DS infrastructures
- Set up DNS, AD DS sites and replication
- Manage objects in Active Directory Domain Services
- Implementing Group Policy
- Manage user preferences with Group Policy
- Storage Solution and Cluster / Hyper-V Cluster
- WSL2 and containers

Who should attend

- This seminar is intended for IT professionals who are or will be responsible for the design, implementation and management of a (virtualized) Microsoft client-server infrastructure. Newcomers to Hyper-V are just as welcome as administrators who want to get to know the innovations of Windows Server 2022 and Hyper-V servers.
- Using practical exercises, you will learn how to install, configure, manage and maintain client-server structures under Windows Server 2022 (Server 2016 / 2019).
- One focus is the identity and access technologies around Active Directory, but also the 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.
- Initial experience with Windows server systems is an advantage.
- Basic knowledge of operating client-server environments.
- Understanding of basic network technologies such as IP addressing, name resolution and Dynamic Host Configuration Protocol (DHCP) and virtualization.

Course Content

Windows Server - versions, roles, features and Hyper-V

- Innovations Windows Server 2022, object model private/public cloud
- Edition of Windows Server 2022 and installation of Windows Server
- Advanced Windows Server deployment tools - ADK and MDT
- Local Hyper-V configuration, local storage, Hyper-V switches and networks
- Hyper-V and creating VM containers generation 1 and 2
- Hyper-V and configuration releases
- Standard and production checkpoint
- VM operation in differential disk operation
- Nested virtualization
- Edition Core OS and Feature on Demand (FoD)

Windows Server and its management tools (Windows Admin Center)

- Classic management tools, remote administration with PowerShell / PowerShell GUI
- Syntax and language concept of Windows PowerShell, use of the PS command reference
- Information retrieval, piping and filtering of information, creation of simple scripts
- PS-Remoting and the remote administration Server Manager
- VScode and PowerShell
- Installing and configuring Windows Admin Center (WAC)

Windows Server Infrastructure - ADDS, DNS, AD DS Sites and Replication

- Introduction Active Directory (ADDS, DNS, GPO)
- Function and configuration of domain controllers
- Implementing DNS servers, configuring zones in DNS
- Configure Name Resolution Between DNS Zones (Active Directory Integrated)
- Implement and manage organizational units
- Implement / manage user accounts, groups and computer objects

- Use of Windows PowerShell for AD DS administration
- Deploy a distributed AD DS environment
- Configure AD DS sites and AD DS replication

Implementation and administration of Group Policy

- Introduction to Group Policy
- Implement and manage GPOs
- Scope and Processing of Group Policy
- Troubleshoot the application of Group Policy Objects
- Setting up Central Store and configuration of Administrative Templates
- Configuration of Group Policy Preferences (GPP)
- Configuration of security settings, software installation and scripts

Cluster und Storage Solutions – Storage Spaces, Storage Space Direct, iSCSI, SMB

- Storage Solution Storage Space, SMB und iSCSI-Storage
- Storage Migration Service
- Configuration und Management Hyper-V-Clusters with Cluster-Manager / PowerShell / Windows Admin Center

Windows Subsystem Linux 2 (WSL2) container in Windows Server

- Configuration and management of WSL 2 in Windows Server
- Containers in Windows Server
- Azure Stack HCI and Kubernetes Service

Manage, monitor, maintain Windows Server in private and public cloud (Azure)

- Windows Admin Center and advanced management of hybrid environments
- Object model private/public cloud - WAC connection to the Azure cloud
- Storage migration service
- Windows Server 2022 Datacenter: Azure Edition
- Azure Stack HCI / Azure Stack HCI OS
- Implementation of recovery solutions with Azure public cloud

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