

# Upgrading Your Skills to MCSA: Windows Server 2016, On Demand 20743

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Seminar	Zurzeit keine Termine	Teilnahmebescheinigung
E-Learning	40 Unterrichtseinheiten	

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Seminarnummer: 29453 | Herstellernummer: OD20743

Stand: 14.04.2026. Alle aktuellen Informationen finden Sie unter <https://akademie.tuv.com/s/29453>

This On Demand online course teaches IT Pros how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with Windows Server 2016.

## Nutzen

After completing this online on Demand course, students will be able to:

- Install and configure Windows Server 2016.
- Describe storage in Windows Server 2016.
- Implement directory services.
- Implement Active Directory Federation Services (AD FS).
- Describe networking.
- Implement Hyper-V.
- Configure advanced networking features.
- Implement software-defined networking.
- Implement remote access.
- Deploy and manage Windows and Hyper-V containers.
- Implement failover clustering.
- Implement failover clustering by using virtual machines.

## Zielgruppe

This course is for IT professionals who are experienced Windows Server 2012 or Windows Server 2008 system administrators, with real-world experience working in a Windows Server 2008 R2 or Windows Server 2008 enterprise environment. Additionally, students should have obtained the MCSA credential for

Windows Server 2008 or Windows Server 2012, or they should have equivalent knowledge.

Additionally, IT professionals who plan to take the Microsoft Certified Solutions Expert (MCSE) exams might be interested in this course, as preparation for the MCSA exams, which are a prerequisite for the MCSE specialties.

## Voraussetzungen

Before attending this on Demand course, students must have:

- Two or more years of experience with deploying and managing Windows Server 2012 or Windows Server 2008 Environments.
- Experience with Windows networking technologies and implementation.
- Experience with Active Directory technologies and implementation.
- Experience with Windows Server virtualization technologies and implementation.
- Knowledge equivalent to the MCSA credentials of Windows Server 2008 or Windows Server 2012.

## Inhalte des Seminars

Module 1: Installing and configuring Windows Server 2016 Lessons

- Introducing Windows Server 2016
- Installing Windows Server 2016
- Configuring Windows Server 2016
- Preparing for upgrades and migrations
- Migrating server roles and workloads
- Windows Server activation models

Module 2: Overview of storage in Windows Server 2016 Lessons

- Overview of storage in Windows Server 2016
- Configuring Internet SCSI (iSCSI) storage
- Configuring the Storage Spaces feature in Windows Server 2016
- Implementing the Data Deduplication feature

Module 3: Implementing the Directory Services feature Lessons

- Deploying AD DS domain controllers
- Implementing service accounts
- What is Azure AD?

Module 4: Implementing AD Federation Service (FS) Lessons

- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a single organization
- Implementing Web Application Proxy
- Implementing Azure AD FS SSO with Microsoft Online Services

#### Module 5: Implementing network services Lessons

- Overview of networking enhancements
- Implementing the IP address management
- Managing IP address spaces with IPAM

#### Module 6: Implementing Hyper-V Lessons

- Configuring the Hyper-V role in Windows Server 2016
- Configuring Hyper-V storage
- Configuring Hyper-V networking
- Configuring Hyper-V virtual machines

#### Module 7: Configuring advanced networking features Lessons

- Overview of high-performance networking features
- Configuring advanced Hyper-V networking features

#### Module 8: Implementing software defined networking Lessons

- Overview of software-defined networking
- Implementing network virtualization
- Implementing the Network Controller feature

#### Module 9: Implementing remote access Lessons

- Remote access overview
- Implementing DirectAccess
- Implementing a virtual private network (VPN)

#### Module 10: Deploying and managing Windows Server and Hyper-V containers Lessons

- Overview of Windows Server 2016 containers
- Deploying Windows Server and Hyper-V containers
- Installing, configuring, and managing containers

#### Module 11: Implementing failover clustering Lessons

- Overview of failover clustering
- Implementing a failover cluster
- Configuring highly-available applications and services on a failover cluster
- Maintaining a failover cluster
- Implementing a stretch cluster

#### Module 12: Implementing failover clustering with Windows Server 2016 Hyper-V Lessons

- Overview of the integration of Hyper-V Server 2016 with failover clustering
- Implementing Hyper-V virtual machines on failover clusters
- Implementing Windows Server 2016 Hyper-V virtual machine migration
- Implementing the Hyper-V Replica feature

## 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](http://www.tuv.com/Microsoft)

## Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter <https://akademie.tuv.com/s/29453> und profitieren Sie von diesen Vorteilen:

- Schneller Buchungsvorgang
- Persönliches Kundenkonto
- Gleichzeitige Buchung für mehrere Teilnehmer:innen

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