

20743 Upgrading Your Skills to Windows Server 2016 MCSA

Course Overview

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This is a 5-day class

This five-day course explains how to implement and configure new Windows Server 2016 features and functionality. This course is for information technology (IT) professionals who want to upgrade their technical skills from Windows Server 2008 or Windows Server 2012 to Windows Server 2016. This course presumes a high level of knowledge about previous Windows Server technologies and skills equivalent to the Microsoft Certified Solutions Associate (MCSA): Windows Server 2008 or Windows Server 2012 credential.



Who Should Attend

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.

Course Objectives

After completing this 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.

Course Outline

1 Installing and configuring Windows Server 2016

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
Lab : Installing and configuring Nano Server

2 Overview of storage in Windows Server 2016

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
Lab : Implementing and managing storage
Lab : Configuring storage spaces

3 Implementing the Directory Services feature

Deploying AD DS domain controllers
Implementing service accounts
What is Azure AD?
Lab : Implementing and Managing AD DS

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4 Implementing AD FS

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
Lab : Implementing AD FS
Lab : Implementing Web Application Proxy

5 Implementing network services

Overview of networking enhancements
Implementing the IP address management
Managing IP address spaces with IPAM
Lab : Implementing network services

6 Implementing Hyper-V

Configuring the Hyper-V role in Windows Server 2016
Configuring Hyper-V storage
Configuring Hyper-V networking
Configuring Hyper-V virtual machines
Lab : Implementing server virtualization with Hyper-V

7 Configuring advanced networking features

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

8 Implementing software defined networking

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

9 Implementing remote access

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

10 Deploying and managing Windows Server and Hyper-V containers

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

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11 Implementing failover clustering

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

Lab : Implementing failover clustering

12 Implementing failover clustering with Windows Server 2016 Hyper-V

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

Lab : Implementing failover clustering with Windows Server 2016 Hyper-V