

20743 Upgrading Your Skills to Windows Server 2016 MCSA

Overview

This course explains how to implement & configure new Windows Server 2016 features. This course is for IT professionals who want to upgrade their technical skills from Windows Server 2008 or Windows Server 2012 to Windows Server 2016.

Prerequisite Comments

Before attending this course, students must have:

Two or more years of experience with deploying and managing Windows Server 2012 or Windows Server 2008 environments; NS experience with day-to-day Windows Server 2012 or Windows Server 2008 system-administration management and maintenance tasks; 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.

Target Audience

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.

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.

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Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training" | HDL = "Hosted Distance Learning"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

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 & 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 Server Core

2 - Overview of Storage in Windows Server 2016

Overview of storage in Windows Server 2016
Implementing Data Deduplication
Configuring iSCSI storage
Configuring the Storage Spaces feature in Windows Server 2016
Lab : Implementing and managing storage

3 - Implementing Directory Services

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

4 - Implementing AD FS

Overview of AD FS
Deploying AD FS
Implementing AD FS for a single organization
Implementing Web Application Proxy
Implementing SSO with Microsoft online services
Lab : Implementing AD FS
Lab : Implementing Web Application Proxy

5 - Implementing Network Services

Overview of networking enhancements
Implementing IPAM
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 Network 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 SDN
Implementing network virtualization
Implementing Network Controller
Lab : Deploying Network Controller

9 - Implementing Remote Access

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

10 - Deploying & Managing Windows Server & Hyper-V Containers

Overview of containers in Windows Server 2016
Preparing for containers
Installing, configuring, and managing containers by using Docker
Lab : Installing and configuring containers

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
