

# 20743 Upgrading Your Skills to Windows Server 2016 MCSA

## Course Overview

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.

## Upcoming Dates

Date	Time	Where
11/02/2020	9:00AM - 5:00PM	Online LIVE

[View All Course Dates & Register Today](#)



## 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

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## 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

## 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

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## 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

## 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