Upgrading Your Skills to MCSA: Windows Server 2016 (20743)

Duration: 5 days

Course Overview

This five-day, instructor-led 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.

This course is not a product-upgrade course, detailing considerations for migrating and upgrading students' specific environment to Windows Server 2016. Rather, this course provides updates to students' existing Windows Server knowledge and skills, as they pertain to Windows Server 2016.

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.

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.

Certifications

This course is part of the following Certifications:

1. **MCSA Windows Server 2016** (MCSA)

Prerequisites

Before attending this course, students must have:

1. 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.
2. Experience with Windows networking technologies and implementation.
3. Experience with Active Directory technologies and implementation.

4. Experience with Windows Server virtualization technologies and implementation.
5. Knowledge equivalent to the MCSA credentials of Windows Server 2008 or Windows Server 2012.

Course Objectives

After completing this course, students will be able to:

1. Install and configure Windows Server 2016.
2. Describe storage in Windows Server 2016.
3. Implement directory services.
4. Implement Active Directory Federation Services (AD FS).
5. Describe networking.
6. Implement Hyper-V.
7. Configure advanced networking features.
8. Implement software-defined networking.
9. Implement remote access.
10. Deploy and manage Windows and Hyper-V containers.
11. Implement failover clustering.
12. Implement failover clustering by using virtual machines.

Follow On Courses

1. **Introduction to Microsoft Azure for IT Professionals** (10979)
2. **Implementing Microsoft Azure Infrastructure Solutions** (20533)
3. **Implementing a Software-Defined DataCenter Using System Center Virtual Machine Manager** (20745)

Course Content

1. Installing and configuring Windows Server 2016
2. Overview of storage in Windows Server 2016
3. Implementing the Directory Services feature
4. Implementing AD FS
5. Implementing network services
6. Implementing Hyper-V
7. Configuring advanced networking features
8. Implementing software defined networking
9. Implementing remote access
10. Deploying and managing Windows Server and Hyper-V containers
11. Implementing failover clustering
12. Implementing failover clustering with Windows Server 2016 Hyper-V