

(20417D) – Upgrading Your Skills to MCSA Windows Server 2012

OBJECTIVE

Get hands-on instruction and practice configuring and implementing new features and functionality in Windows Server 2012, including Windows Server 2012 R2, in this three-day Microsoft Official Course. This course is designed for IT professionals who want to upgrade their existing Windows Server technical skills to Windows Server 2012 and Windows Server 2012 R2. It presumes a high level of knowledge about previous Windows Server technologies and skills equivalent to *MCSA: Windows Server 2008* credential.

The course covers the new features and functionality in Windows Server 2012 and Windows Server 2012 R2, including management, network infrastructure, storage, access control, virtualization, high availability, and identity federation. Specific technologies covered include Windows PowerShell, Storage Spaces and Internet Small Computer System interface (iSCSI), Active Directory, and Hyper-V, implementation of Remote Access solutions such as Direct Access, VPNs, and Web Application Proxy (WAP). The course also covers Failover Clustering, Federation Services as well as access and information provisioning and protection technologies such as Dynamic Access Control, and Web Application Proxy integration with Federation Services and Workplace Join.

COURSE TOPICS

Module 1: Installing and Configuring Windows Server 2012

- Installing Windows Server 2012 R2
- Configuring Windows Server 2012 R2 and Windows Server 2012
- Configuring Remote Management for Windows Server 2012 R2 and Windows Server 2012

Module 2: Managing Windows Server 2012 by Using Windows PowerShell

- Overview of Windows PowerShell
- Using Windows PowerShell to Manage AD DS
- Managing Servers by Using Windows PowerShell

Module 3: Managing Storage in Windows Server 2012

- Storage Features in Windows Server 2012
- Configuring iSCSI Storage
- Configuring Storage Spaces in Windows Server 2012
- Configuring BranchCache in Windows Server 2012

Module 4: Implementing Network Services

- Implementing DNS and DHCP Enhancements
- Implementing IPAM
- Managing IP Address Spaces with IPAM
- NAP Overview

- Implementing NAP

Module 5: Implementing Remote Access

- Remote Access Overview
- Implementing Direct Access by Using the Getting Started Wizard
- Implementing and Managing an Advanced Direct Access Infrastructure
- Implementing VPN

Module 6: 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 Multisite Failover Cluster

Module 7: Implementing Hyper-V

- Configuring Hyper-V Servers
- Configuring Hyper-V Storage
- Configuring Hyper-V Networking
- Configuring Hyper-V Virtual Machines

Module 8: Implementing Failover Clustering with Windows Server 2012 R2 Hyper-V

- Overview of the Integration of Hyper-V Server 2012 with Failover Clustering
- Implementing Hyper-V Virtual Machines on Failover Clusters
- Implementing Windows Server 2012 Hyper-V Virtual Machine Movement
- Implementing Hyper-V Replica

Module 9: Implementing Secure Data Access for Users and Devices

- Dynamic Access Control Overview
- Implementing DAC Components
- Implementing DAC for Access Control
- Implementing Access-Denied Assistance
- Implementing and Managing Work Folders

Module 10: Implementing AD DS

- Deploying AD DS Domain Controllers
- Configuring AD DS Domain Controllers
- Implementing Service Accounts
- Implementing Group Policy in AD DS
- Overview of Windows Azure Active Directory

- Maintaining AD DS

Module 11: Implementing AD FS

- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a Single Organization
- Deploying AD FS in a Business-to-Business Federation Scenario
- Implementing Web Application Proxy
- Implementing Workplace Join

Module 12: Monitoring and Maintaining Windows Server 2012

- Monitoring Windows Server 2012
- Implementing Windows Server Backup
- Implementing Server and Data Recovery

After completing this course, students will be able to:

- Install and configure Windows Server 2012.
- Manage Windows Server 2012 by using Windows PowerShell.
- Manage storage in Windows Server 2012.
- Implement network services.
- Implement Remote Access.
- Implement Failover Clustering.
- Implement Hyper-V.
- Implement Failover Clustering with Hyper-V.
- Implementing secure data access for users and devices.
- Implement Active Directory Domain Services (AD DS).
- Implement Active Directory Federation Services (AD FS).
- Monitor and maintain Windows Server 2012.

PREREQUISITES

Before attending this course, students must have:

- Experience with day-to-day Windows Server system administration, management and maintenance tasks in an Enterprise environment
- Obtained a certification that qualifies to take the 70-417 upgrade exam, as listed here, <https://www.microsoft.com/learning/en-us/windows-server-certification.aspx>, or have equivalent knowledge

Note: It is possible to take this course without having the qualifying upgradeable certification once the criteria of equivalent knowledge is met. However, subsequent taking and passing of the 70-417 upgrade exam will not provide the exam taker with the MCSA:

Windows Server 2012 credential. This credential upgrade is exclusively for holder the holders of existing qualifying upgradeable certification, details of which are available in the URL listed above.

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

24 Hours (in 3 days)

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course