20743: Upgrading Your Skills to Windows Server[®] 2016

Duration: 5 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This 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 2012 to Windows Server 2016. This course is not a product upgrade course, rather, it provides updates to participants' existing Windows Server knowledge and skills, as they pertain to Windows Server 2016.

Target Audience

This course is intended for:

- IT professionals who are experienced Windows Server 2012
- Windows Server 2008 system administrators, with real-world experience working in a Windows Server 2008 R2 or Windows Server 2008 enterprise environment.

Prerequisites

To attend this course, candidates must have:

- Two or more years of experience with the following Windows Server 2008 or 2012 activities:
 - o Deploying and managing environments,
 - Network server/service experience with day-to-day system-administration management and maintenance tasks.
- Experience with:
 - Windows networking technologies and implementation.
 - Active Directory[®] technologies and implementation.
 - Windows Server virtualization technologies and implementation.
- High-level of knowledge equivalent to the MCSA credentials of Windows Server 2008 or 2012.

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Course Objectives

Upon successful completion of this course, attendees 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 Topics

Module 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

Module 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

Module 3: Implementing Directory Services

- Deploying Active Directory Domain Controllers
- Implementing Service Accounts
- Azure AD

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Module 4: Implementing AD FS

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- Overview of AD FS
- Deploying AD FS
- Implementing AD FS for a Single Organization
- Implementing the Web Application Proxy
- Implementing SSO with Microsoft Online Services

Module 5: Implementing Network Services

- Overview of Networking Enhancements
- Implementing IPAM
- Managing IP Address Spaces
 with IPAM



Course Topics *Continued* Module 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

Module 7: Configuring Advanced Networking Features

- Overview of High-Performance Networking Features
- Configuring Advanced Hyper-V Networking Features

Module 8: Implementing Software-Defined Networking (SDN)

- Overview of SDN
- Implementing Network Virtualization
- Implementing Network Controller

Module 9: Implementing Remote Access

- Remote Access Overview
- Implementing DirectAccess
- Implementing VPN

Module 10: Deploying and Managing Windows and Hyper-V Containers

- Overview of Containers in Windows Server 2016
- Preparing for Containers
- Installing, Configuring, and Managing Containers by Using Docker

Module 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

Module 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 Hyper-V Replica

LABS INCLUDED

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