



70-743

MCSA Windows Server 2016

A Success Guide to Prepare-
Upgrading Your Skills to MCSA - Windows Server 2016

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Introduction to 70-743 Exam on Upgrading Your Skills to MCSA - Windows Server 2016

Use this quick start guide to collect all the information about Microsoft Upgrading Your Skills to MCSA - Windows Server 2016 (70-743) Certification exam. This study guide provides a list of objectives and resources that will help you prepare for items on the 70-743 Upgrading Your Skills to MCSA - Windows Server 2016 exam. The Sample Questions will help you identify the type and difficulty level of the questions and the Practice Exams will make you familiar with the format and environment of an exam. You should refer this guide carefully before attempting your actual Microsoft Upgrading Your Skills to MCSA - Windows Server 2016 certification exam.

The Microsoft Upgrading Your Skills to MCSA - Windows Server 2016 certification is mainly targeted to those candidates who want to build their career in Windows Server domain. The Microsoft Certified Solutions Associate (MCSA) - Windows Server 2016 exam verifies that the candidate possesses the fundamental knowledge and proven skills in the area of Microsoft Upgrading Your Skills to MCSA - Windows Server 2016.

Microsoft 70-743 Certification Details:

Exam Name	Microsoft Certified Solutions Associate (MCSA) - Windows Server 2016
Exam Code	70-743
Exam Price	\$165 (USD)
Duration	120 min
Number of Questions	45-55
Passing Score	700 / 1000
Books / Training	20743A: Upgrading Your Skills to MCSA: Windows Server 2016
Schedule Exam	Pearson VUE
Sample Questions	Microsoft Upgrading Your Skills to MCSA - Windows Server 2016 Sample Questions
Practice Exam	Microsoft 70-743 Certification Practice Exam

Microsoft 70-743 Exam Syllabus:

Topic	Details
Install Windows Servers in Host and Compute Environments	<p>Install, upgrade, and migrate servers and workloads</p> <ul style="list-style-type: none"> - Determine Windows Server 2016 installation requirements; determine appropriate Windows Server 2016 editions per workloads; install Windows Server 2016; install Windows Server 2016 features and roles; install and configure Windows Server Core; manage Windows Server Core installations using Windows PowerShell, command line, and remote management capabilities; implement Windows PowerShell Desired State Configuration (DSC) to install and maintain integrity of installed environments; perform upgrades and migrations of servers and core workloads from Windows Server 2008 and Windows Server 2012 to Windows Server 2016; determine the appropriate activation model for server installation, such as Automatic Virtual Machine Activation (AVMA), Key Management Service (KMS), and Active Directory-based Activation <p>Install and configure Nano Server</p> <ul style="list-style-type: none"> - Determine appropriate usage scenarios and requirements for Nano Server; install Nano Server; implement Roles and Features on Nano Server; use Nano Server Image Builder, manage and configure Nano Server; manage Nano Server remotely using MMC, Windows PowerShell, and Server Management Tools <p>Create, manage, and maintain images for deployment</p> <ul style="list-style-type: none"> - Plan for Windows Server virtualization; assess virtualization workloads using the Microsoft Assessment and Planning (MAP) Toolkit; determine considerations for deploying workloads into virtualized environments; update images with patches, hotfixes, last cumulative updates and drivers; install roles and features in offline images; manage and maintain Windows Server Core, Nano Server images, and VHDs using Windows PowerShell

Topic	Details
Implement Storage Solutions	<p>Implement server storage</p> <ul style="list-style-type: none"> - Configure storage pools; implement simple, mirror, and parity storage layout options for disks or enclosures; expand storage pools; configure Tiered Storage; configure iSCSI target and initiator; configure iSNS; configure Datacenter Bridging (DCB); configure Multi-Path IO (MPIO); determine usage scenarios for Storage Replica; implement Storage Replica for server-to-server, cluster-to-cluster, and stretch cluster scenarios <p>Implement data deduplication</p> <ul style="list-style-type: none"> - Implement and configure Deduplication; determine appropriate usage scenarios for Deduplication; monitor Deduplication; implement a backup and restore solution with Deduplication
Implement Hyper-V	<p>Install and configure Hyper-V</p> <ul style="list-style-type: none"> - Determine hardware and compatibility requirements for installing Hyper-V; install Hyper-V; install management tools; upgrade from existing versions of Hyper-V; delegate virtual machine management; perform remote management of Hyper-V hosts; using Windows PowerShell Direct; implement nested virtualization <p>Configure virtual machine (VM) settings</p> <ul style="list-style-type: none"> - Add or remove memory in a running VM; configure dynamic memory; configure Non-Uniform Memory Access (NUMA) support; configure smart paging; configure Resource Metering; manage Integration Services; create and configure Generation 1 and 2 VMs and determine appropriate usage scenarios; implement enhanced session mode; create Linux and FreeBSD VMs; install and configure Linux Integration Services (LIS); install and configure FreeBSD Integration Services (BIS); implement Secure Boot for Windows and Linux environments; move and convert VMs from previous versions of Hyper-V to Windows Server 2016 Hyper-V; export and import VMs; implement Discrete Device Assignment (DDA), Troubleshoot VM configuration versions <p>Configure Hyper-V storage</p> <ul style="list-style-type: none"> - Create VHDX files using Hyper-V Manager; create shared VHDX files; configure differencing disks; modify virtual hard disks; configure pass-through disks; resize a virtual hard disk; manage checkpoints; implement production checkpoints; implement a virtual Fibre Channel adapter; configure storage Quality of Service (QoS)

Topic	Details
	<p>Configure Hyper-V networking</p> <ul style="list-style-type: none"> - Add and remove virtual network interface cards (vNICs); configure Hyper-V virtual switches; optimize network performance; configure MAC addresses; configure network isolation; configure synthetic and legacy virtual network adapters; configure NIC teaming in VMs; configure virtual machine queue (VMQ); enable Remote Direct Memory Access (RDMA) on network adapters bound to a Hyper-V virtual switch using Switch Embedded Teaming (SET); configure Bandwidth Management
Implement Windows Containers	<p>Deploy Windows containers</p> <ul style="list-style-type: none"> - Determine installation requirements and appropriate scenarios for Windows Containers; install and configure Windows Server container host in physical or virtualized environments; install and configure Windows Server container host to Windows Server Core or Nano Server in a physical or virtualized environment; install Docker on Windows Server and Nano Server; configure Docker start-up options; install PowerShell for Docker; install a base container image; tag an image; remove a container; create Windows Server containers; create Hyper-V containers <p>Manage Windows containers</p> <ul style="list-style-type: none"> - Manage Windows containers by using Docker CLI and PowerShell for Docker; manage container networking; manage container data volumes; manage Resource Control; create new container images using Dockerfile; manage container images using DockerHub repository for public and private scenarios; manage container images using Microsoft Azure
Implement High Availability	<p>Implement high availability and disaster recovery options in Hyper-V</p> <ul style="list-style-type: none"> - Implement Hyper-V Replica; implement Live Migration including shared nothing Live Migration; configure CredSSP or Kerberos authentication protocol for Live Migration; implement storage migration <p>Implement failover clustering</p> <ul style="list-style-type: none"> - Implement Workgroup, Single, and Multi Domain clusters; configure quorum; configure cluster networking; restore single node or cluster configuration; configure cluster storage; implement Cluster-Aware Updating; implement Cluster Operating System Rolling Upgrade; configure and optimize cluster shared volumes (CSVs); configure clusters without network names; implement Scale-Out File Server (SoFS); determine different scenarios for the use of SoFS vs.

Topic	Details
	<p>File Server for general use; determine usage scenarios for implementing guest clustering; implement a Clustered Storage Spaces solution using Shared SAS storage enclosures; implement Storage Replica; implement Cloud Witness; implement VM resiliency; implement shared VHDX as a storage solution for guest clusters</p> <p>Implement Storage Spaces Direct - Determine scenario requirements for implementing Storage Spaces Direct; enable Storage Spaces Direct using Windows PowerShell; implement a disaggregated Storage Spaces Direct scenario; implement a hyper-converged Storage Spaces Direct scenario</p> <p>Manage failover clustering - Configure role-specific settings, including continuously available shares; configure VM monitoring; configure failover and preference settings; implement stretch and site-aware failover clusters; enable and configure node fairness</p> <p>Manage VM movement in clustered nodes - Perform live migration; perform quick migration; perform storage migration; import, export, and copy VMs; configure VM network health protection; configure drain on shutdown</p>
Implement Domain Name System (DNS)	<p>Install and configure DNS servers - Determine DNS installation requirements; determine supported DNS deployment scenarios on Nano Server; install DNS; configure forwarders; configure Root Hints; configure delegation; implement DNS policies; Configure DNS Server settings using Windows PowerShell; configure Domain Name System Security Extensions (DNSSEC); configure DNS Socket Pool; configure cache locking; enable Response Rate Limiting; configure DNS-based Authentication of Named Entities (DANE); configure DNS logging; configure delegated administration; configure recursion settings; implement DNS performance tuning; configure global settings</p> <p>Implement and Maintain IP Address Management (IPAM) - Provision IPAM manually or by using Group Policy; configure server discovery; create and manage IP blocks and ranges; monitor utilization of IP address space; migrate existing workloads to IPAM; configure IPAM database storage using SQL Server; determine scenarios for using IPAM with System Center Virtual Machine Manager for physical and virtual IP address space management; manage DHCP server properties using IPAM; configure DHCP scopes and options; configure DHCP policies and failover; manage DNS server properties using IPAM; manage DNS zones and records;</p>

Topic	Details
	<p>manage DNS and DHCP servers in multiple Active Directory forests; delegate administration for DNS and DHCP using role-based access control (RBAC); audit the changes performed on the DNS and DHCP servers; audit the IPAM address usage trail; audit DHCP lease events and user logon events</p>
<p>Implement Network Connectivity and Remote Access Solutions</p>	<p>Implement virtual private network (VPN) and DirectAccess solutions</p> <ul style="list-style-type: none"> - Implement remote access and site-to-site (S2S) VPN solutions using remote access gateway; configure different VPN protocol options; configure authentication options; configure VPN reconnect; create and configure connection profiles; determine when to use remote access VPN and site-to-site VPN and configure appropriate protocols; install and configure DirectAccess; implement server requirements; implement client configuration; troubleshoot DirectAccess
<p>Implement an Advanced Network Infrastructure</p>	<p>Implement high performance network solutions</p> <ul style="list-style-type: none"> - Implement NIC Teaming or the Switch Embedded Teaming (SET) solution and identify when to use each; enable and configure Receive Side Scaling (RSS); enable and configure network Quality of Service (QoS) with Data Center Bridging (DCB); enable and configure SMB Direct on Remote Direct Memory Access (RDMA) enabled network adapters; configure SMB Multichannel; enable and configure virtual Receive Side Scaling (vRSS) on a Virtual Machine Queue (VMQ) capable network adapter; enable and configure Virtual Machine Multi-Queue (VMMQ); enable and configure Single-Root I/O Virtualization (SR-IOV) on a supported network adapter <p>Determine scenarios and requirements for implementing Software Defined Networking (SDN)</p> <ul style="list-style-type: none"> - Determine deployment scenarios and network requirements for deploying SDN; determine requirements and scenarios for implementing Hyper-V Network Virtualization (HNV) using Network Virtualization Generic Route Encapsulation (NVGRE) encapsulation or Virtual Extensible LAN (VXLAN) encapsulation; determine scenarios for implementation of Software Load Balancer (SLB) for North-South and East-West load balancing; determine implementation scenarios for various types of Windows Server Gateways, including L3, GRE, and S2S, and their use; determine requirements and scenarios for Datacenter firewall policies and network security groups
<p>Install and Configure Active Directory</p>	<p>Install and configure domain controllers</p> <ul style="list-style-type: none"> - Install a new forest; add or remove a domain controller from a domain; upgrade a domain controller; install AD DS

Topic	Details
Domain Services (AD DS)	on a Server Core installation; install a domain controller from Install from Media (IFM); resolve DNS SRV record registration issues; configure a global catalog server; transfer and seize operations master roles; install and configure a read-only domain controller (RODC); configure domain controller cloning
Implement identity federation and access solutions	<p>Install and configure Active Directory Federation Services (AD FS)</p> <ul style="list-style-type: none"> - Upgrade and migrate previous AD FS workloads to Windows Server 2016; implement claims-based authentication, including Relying Party Trusts; configure authentication policies; configure multi-factor authentication; implement and configure device registration; integrate AD FS with Microsoft Passport; configure for use with Microsoft Azure and Office 365; configure AD FS to enable authentication of users stored in LDAP directories <p>Implement Web Application Proxy (WAP)</p> <ul style="list-style-type: none"> - Install and configure WAP; implement WAP in pass-through mode; implement WAP as AD FS proxy; integrate WAP with AD FS; configure AD FS requirements; publish web apps via WAP; publish Remote Desktop Gateway applications; configure HTTP to HTTPS redirects; configure internal and external Fully Qualified Domain Names (FQDNs)

70-743 Sample Questions:

01. You have a network printer connected to print server. You need to be able to print if print server goes down. What should you configure?

- a) branch office direct printing
- b) printer pooling
- c) spooling
- d) Print forwarding

02. Your network contains an Active Directory domain named contoso.com. The domain contains a server named Server1. Server1 runs windows Server 2016 R2. You need to create 3-TB virtual hard disk (VHD) on Server1. Which tool should you use?

- a) File Server Resource Manager (FSRM)
- b) New-StoragePool
- c) Diskpart
- d) Share and Storage Management

03. You have a file server named Server1 that runs windows Server 2016 R2. You need to ensure that a user named User1 can use Windows Server Backup to create a complete backup of Server1. What should you configure?

- a) The User Rights Assignment by using the Local Group Policy Editor
- b) The Role Assignment by using Authorization Manager
- c) A task by using Authorization Manager
- d) The local groups by using Computer Management

04. Your network contains an Active Directory domain named contoso.com. The domain contains a server named Server1. Server1 runs windows Server 2016 R2. You need to create 3-TB virtual hard disk (VHD) on Server1. Which tool should you use?

- a) New-StorageSubsystemVirtualDisk
- b) File Server Resource Manager (FSRM)
- c) Server Manager
- d) Computer Management

05. You have a server named Server1 that runs windows Server 2016 R2. You promote Server1 to domain controller. You need to view the service location (SVR) records that Server1 registers on DNS. What should you do on Server1?

- a) Open the Srv.sys file
- b) Open the Netlogon.dns file
- c) Run ipconfig/displaydns
- d) Run Get-DnsServerDiagnostics

06. Your company has an Active Directory domain. You log on to the domain controller. The Active Directory Schema snap-in is not available in the Microsoft Management Console (MMC). You need to access the Active Directory Schema snap-in. What should you do?

- a) Register Schmmgmt.dll.
- b) Log off and log on again by using an account that is a member of the Schema Admins group.
- c) Use the Ntdsutil.exe command to connect to the schema master operations master and open the schema for writing.
- d) Add the Active Directory Lightweight Directory Services (AD/LDS) role to the domain controller by using Server Manager.

07. A network technician installs windows Server 2016 R2 Standard on a server named Server1. A corporate policy states that all servers must run windows Server 2016 R2 Enterprise.

You need to ensure that Server1 complies with the corporate policy. You want to achieve this goal by using the minimum amount of administrative effort. What should you perform?

- a) a clean installation of windows Server 2016 R2
- b) an upgrade installation of windows Server 2016 R2
- c) online servicing by using Dism
- d) offline servicing by using Dism

08. Your network contains two servers named Server1 and Server2 that run windows Server 2016 R2. You need to install the Remote Desktop Services server role on Server2 remotely from Server1. Which tool should you use?

- a) The dsadd.exe command
- b) The Server Manager console
- c) The Remote Desktop Gateway Manager console
- d) The Install-RemoteAccess cmdlet

09. You have a Hyper-V host named Server1 that runs windows Server 2016 R2. Server1 hosts a virtual machine named VM1 that runs windows Server 2016 R2. VM1 has several snapshots. You need to modify the snapshot file location of VM1. What should you do?

- a) PauseVM1, and then modify the settings of VM1.
- b) Right-click VM1, and then click Move.
- c) Right-click VM1, and then click Export.
- d) Delete the existing snapshots, and then modify the settings of VM1.

10. You have external virtual switch with srv-io enabled with 10 Virtual Machines on it. You need to make the Virtual Machines able to talk only to each other.

- a) remove the vswitch and recreate it as private.
- b) add new vswitch
- c) remove vswitch and recreate it as public
- d) adjust srv-io settings

Answers to 70-743 Exam Questions:

Question: 01 Answer: a	Question: 02 Answer: c	Question: 03 Answer: d	Question: 04 Answer: a	Question: 05 Answer: b
Question: 06 Answer: a	Question: 07 Answer: c	Question: 08 Answer: b	Question: 09 Answer: d	Question: 10 Answer: a

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@edusum.com