



70-740

MCSA Windows Server 2016

A Success Guide to Prepare-
Installation, Storage, and Compute with Windows Server 2016

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Introduction to 70-740 Exam on Installation, Storage, and Compute with Windows Server 2016

Use this quick start guide to collect all the information about Microsoft Installation, Storage, and Compute with Windows Server 2016 (70-740) Certification exam. This study guide provides a list of objectives and resources that will help you prepare for items on the 70-740 Installation, Storage, and Compute with 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 MCSA Windows Server 2016 certification exam.

The Microsoft Installation, Storage, and Compute with 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 MCSA Windows Server 2016.

Microsoft 70-740 Certification Details:

Exam Name	Microsoft Certified Solutions Associate (MCSA) - Windows Server 2016
Exam Code	70-740
Exam Price	\$165 (USD)
Duration	120 min
Number of Questions	45-55
Passing Score	700 / 1000
Books / Training	20740B
Schedule Exam	Pearson VUE
Sample Questions	Microsoft Installation, Storage, and Compute with Windows Server 2016 Sample Questions
Practice Exam	Microsoft 70-740 Certification Practice Exam

Microsoft 70-740 Exam Syllabus:

Topic	Details	Weights
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; Using 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 	10-15%
Implement Storage Solutions	<p>Configure disks and volumes</p> <ul style="list-style-type: none"> - Configure sector sizes appropriate for various workloads; configure GUID partition table (GPT) 	10-15%

Topic	Details	Weights
	<p>disks; create VHD and VHDX files using Disk Management or Windows PowerShell; mount virtual hard disks; determine when to use NTFS and ReFS file systems; configure NFS and SMB shares using Server Manager; configure SMB share and session settings using Windows PowerShell; configure SMB server and SMB client configuration settings using Windows PowerShell; configure file and folder permissions</p> <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 NonUniform 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 	20-25%

Topic	Details	Weights
	<p>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> <p>Configure Hyper-V storage - 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)</p> <p>Configure Hyper-V networking - 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</p>	
Implement Windows containers	<p>Deploy Windows containers - 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> <p>Manage Windows containers - 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</p>	5-10%

Topic	Details	Weights
	<p>scenarios; manage container images using Microsoft Azure</p>	
<p>Implement High Availability</p>	<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. 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>Implement Storage Spaces Direct</p> <ul style="list-style-type: none"> - 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>Manage failover clustering</p> <ul style="list-style-type: none"> - 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>Manage VM movement in clustered nodes</p> <ul style="list-style-type: none"> - Perform a live migration; perform a quick migration; perform a storage migration; import, 	<p>30-35%</p>

Topic	Details	Weights
	<p>export, and copy VMs; configure VM network health protection; configure drain on shutdown</p> <p>Implement Network Load Balancing (NLB) - Install NLB nodes; configure NLB prerequisites; configure affinity; configure port rules; configure cluster operation mode; upgrade an NLB cluster</p>	
Maintain and Monitor Server Environments	<p>Maintain server installations - Implement Windows Server Update Services (WSUS) solutions; configure WSUS groups; manage patch management in mixed environments; implement an antimalware solution with Windows Defender; integrate Windows Defender with WSUS and Windows Update; perform backup and restore operations using Windows Server Backup; determine backup strategies for different Windows Server roles and workloads, including Hyper-V Host, Hyper-V Guests, Active Directory, File Servers, and Web Servers using Windows Server 2016 native tools and solutions</p> <p>Monitor server installations - Monitor workloads using Performance Monitor, Server Manager, Event Viewer; configure Data Collector Sets; determine appropriate CPU, memory, disk, and networking counters for storage and compute workloads; configure alerts; monitor workloads using Resource Monitor</p>	10-15%

70-740 Sample Questions:

01. What technology delivers packets from an outside virtual machine network directly to a virtualized host operating system?

- a) SET
- b) RDMA
- c) VMQ
- d) FIFO

02. You are the administrator of a new Windows Server 2016 machine. You need to install WSUS. From where do you install WSUS?

- a) Add/Remove Programs
- b) Programs
- c) Server Manager
- d) Administrative Tools

03. What visual representation does Resource Monitor use when information is filtered?

- a) A red filter label
- b) A green highlight
- c) An exclamation point
- d) An orange bar

04. Which of the following is not an option for Nano Server management?

- a) Terminal Services
- b) Windows Management Instrumentation (WMI)
- c) Windows Remote Management
- d) Emergency Management Services (EMS)

05. After you install the NLB feature, what management tool is available from Server Manager?

- a) Network Load Balancing Manager
- b) Application Balancing Manager
- c) Storage Manager
- d) Cluster Manager

06. You are the network administrator for your organization. You have a reference computer that runs Windows Server 2016. You need to create and deploy an image of the Windows Server 2016 computer. You create an answer file named answer.xml. You have to make sure that the installation applies the answer file after you deploy the image. Which command should you run before you capture the image?

- a) ICD.exe /append answer.xml/check
- b) ICD.exe /mount answer.xml/verify
- c) Sysprep.exe/reboot/audit/unattend:answer.xml
- d) Sysprep.exe/generalize/oobe/unattend:answer.xml

07. What is the footprint of the VHD for Nano Server Datacenter Edition?

- a) 1 GB
- b) 2.4 GB
- c) 4.6 GB
- d) 509 MB

08. How much space does a VHDX support?

- a) 8 TB
- b) 2 TB
- c) 64 TB
- d) 1 TB

09. What PowerShell command deletes a container?

- a) Delete-Container
- b) Remove-Container
- c) Erase-Container
- d) Scrub-Container

10. Which virtual switch type permits communication between the VMs on the host and between the VMs and the host itself?

- a) Internal
- b) Private
- c) Firewall
- d) Shielded

Answers to 70-740 Exam Questions:

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