

Exam Details

Exam 70-410:

Installing and Configuring Windows Server 2012

Published:	September 17, 2012
Language(s):	English, Japanese
Audience(s):	IT Professionals
Technology:	Windows Server 2012
Type:	Proctored Exam

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⊖ Overview

Preparing for an Exam

The [Microsoft Certification](#) website and this preparation guide contain a variety of resources to help you prepare for an exam. [Preparing for and Taking an Exam — FAQ](#) provides answers to frequently asked questions about exam [registration](#), [preparation](#), [scoring](#), and [policies](#), including:

- The most effective way to prepare to take an exam.
- The relationship between Microsoft training materials and exam content.
- Microsoft policy concerning the incorporation of service pack and revision updates into exam content.
- Exam question types and formats.
- Exam time limits and number of questions asked.

We recommend that you review this preparation guide in its entirety and familiarize yourself with the FAQs and resources on the Microsoft Certification website before you schedule your exam.

Exam Topics Covered

The following list includes the topic areas covered on this exam.

- Installing and Configuring Windows Server 2012
- Introduction to Active Directory Domain Services
- Managing Active Directory Domain Services Objects
- Automating Active Directory Domain Services Administration
- Implementing Networking Services
- Implementing Local Storage
- Implementing File and Print Services
- Implementing Group Policy
- Implementing Server Virtualization with Hyper-V

Audience Profile

Candidates for this exam are Information Technology (IT) Professionals who have Windows Server 2012 operating system knowledge and experience and want to validate the skills and knowledge necessary to implement the Windows Server 2012 core infrastructure services.

This exam is part one, of a series of three exams, which validate the skills and knowledge necessary to implement a core Windows Server 2012 Infrastructure into an existing enterprise environment. This exam will validate the initial implementation and configuration of the Windows Server 2012 core services, such as Active Directory and the networking services. This exam along with the remaining two exams will collectively validate the skills and knowledge necessary for implementing, managing, maintaining and provisioning services and infrastructure in a Windows Server 2012 environment.

Credit Toward Certification

Exam 70-410: Installing and Configuring Windows Server 2012: counts as credit toward the following certification(s):

Microsoft Certified Solutions Associate (MCSA): Windows Server 2012

Note This preparation guide is subject to change at any time without prior notice and at the sole discretion of Microsoft. Microsoft exams might include adaptive testing technology and simulation items. Microsoft does not identify the format in which exams are presented. Please use this preparation guide to prepare for the exam, regardless of its format.

Skills Measured

Skills Being Measured

This exam measures your ability to accomplish the technical tasks listed below.

The percentages indicate the relative weight of each major topic area on the exam. The higher the percentage, the more questions you are likely to see on that content area on the exam.

The information after "This objective may include but is not limited to" is intended to further define or scope the objective by describing the types of skills and topics that may be tested for the objective. However, it is not an exhaustive list of skills and topics that could be included on the exam for a given skill area. You may be tested on other skills and topics related to the objective that are not explicitly listed here.

Install and Configure Servers (15-20%)

- Install servers
 - This objective may include but is not limited to: Plan for a server installation; plan for server roles; plan for a server upgrade; install Server Core; optimize resource utilization by using Features on Demand; migrate roles from previous versions of Windows Server
- Configure servers
 - This objective may include but is not limited to: Configure Server Core; delegate administration; add and remove features in offline images; deploy roles on remote servers; convert Server Core to/from full GUI; configure services; configure NIC teaming
- Configure local storage
 - This objective may include but is not limited to: Design storage spaces; configure basic and dynamic disks; configure MBR and GPT disks; manage volumes; create and mount virtual hard disks (VHDs); configure storage pools and disk pools

Configure Server Roles and Features (15-20%)

- Configure file and share access
 - This objective may include but is not limited to: Create and configure shares; configure share permissions; configure offline files; configure NTFS permissions; configure access-based enumeration (ABE); configure Volume Shadow Copy Service (VSS); configure NTFS quotas
- Configure print and document services
 - This objective may include but is not limited to: Configure the Easy Print print driver; configure Enterprise Print Management; configure drivers; configure printer pooling; configure print priorities; configure printer permissions
- Configure servers for remote management
 - This objective may include but is not limited to: Configure WinRM; configure down-level server management; configure servers for day-to-day management tasks; configure multi-server management; configure Server Core; configure Windows Firewall

Configure Hyper-V (15-20%)

- Create and configure virtual machine settings
 - This objective may include but is not limited to: Configure dynamic memory; configure smart paging; configure Resource Metering; configure guest integration services
- Create and configure virtual machine storage
 - This objective may include but is not limited to: Create VHDs and VHDX; configure differencing drives; modify VHDs; configure pass-through disks; manage snapshots; implement a virtual Fibre Channel adapter
- Create and configure virtual networks

- This objective may include but is not limited to: Implement Hyper-V Network Virtualization; configure Hyper-V virtual switches; optimize network performance; configure MAC addresses; configure network isolation; configure synthetic and legacy virtual network adapters

Deploy and Configure Core Network Services (15-20%)

- Configure IPv4 and IPv6 addressing
 - This objective may include but is not limited to: Configure IP address options; configure subnetting; configure supernetting; configure interoperability between IPv4 and IPv6; configure ISATAP; configure Teredo
- Deploy and configure Dynamic Host Configuration Protocol (DHCP) service
 - This objective may include but is not limited to: Create and configure scopes; configure a DHCP reservation; configure DHCP options; configure client and server for PXE boot; configure DHCP relay agent; authorize DHCP server
- Deploy and configure DNS service
 - This objective may include but is not limited to: Configure Active Directory integration of primary zones; configure forwarders; configure Root Hints; manage DNS cache; create A and PTR resource records

Install and Administer Active Directory (15-20%)

- Install domain controllers
 - This objective may include but is not limited to: Add or remove a domain controller from a domain; upgrade a domain controller; install Active Directory 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
- Create and manage Active Directory users and computers
 - This objective may include but is not limited to: Automate the creation of Active Directory accounts; create, copy, configure, and delete users and computers; configure templates; perform bulk Active Directory operations; configure user rights; offline domain join; manage inactive and disabled accounts
- Create and manage Active Directory groups and organizational units (OUs)
 - This objective may include but is not limited to: Configure group nesting; convert groups including security, distribution, universal, domain local, and domain global; manage group membership using Group Policy; enumerate group membership; delegate the creation and management of Active Directory objects; manage default Active Directory containers; create, copy, configure, and delete groups and OUs

Create and Manage Group Policy (15-20%)

- Create Group Policy objects (GPOs)
 - This objective may include but is not limited to: Configure a Central Store; manage starter GPOs; configure GPO links; configure multiple local group policies; configure security filtering
- Configure security policies
 - This objective may include but is not limited to: Configure User Rights Assignment; configure Security Options settings; configure Security templates; configure Audit Policy; configure Local Users and Groups; configure User Account Control (UAC)
- Configure application restriction policies
 - This objective may include but is not limited to: Configure rule enforcement; configure AppLocker rules; configure Software Restriction Policies
- Configure Windows Firewall
 - This objective may include but is not limited to: Configure rules for multiple profiles using Group Policy; configure connection security rules; configure Windows Firewall to allow or deny applications, scopes, ports, and users; configure authenticated firewall exceptions; import and export settings

Preparation Materials

Preparation Tools and Resources

To help you prepare for this exam, Microsoft Learning recommends that you have hands-on experience with the product and that you use the following training resources. These training resources do not necessarily cover all of the topics listed in the "Skills Measured" tab.

Learning Plans and Classroom Training

- [20410B: Installing and Configuring Windows Server 2012 \(5 Days\)](#)

Microsoft E-Learning

There is no Microsoft E-Learning training currently available.

Microsoft Press Books

- Cert Prep Pack: MCSA Windows Server 2012 (Exam Ref 70-410, 70-411, 70-412)
- Training Guide: Installing and Configuring Windows Server 2012
- Exam Ref 70-410: Installing and Configuring Windows Server 2012

Practice Tests

There are no practice tests currently available.

Microsoft Online Resources

- [Learning Plan](#): Get started with a step-by-step study guide that is based on recommended resources for this exam.
- [TechNet](#): Designed for IT professionals, this site includes how-to instructions, best practices, downloads, technical resources, newsgroups, and chats.
- [MSDN](#): Designed for developers, the Microsoft Developer Network (MSDN) features code samples, technical articles, downloads, newsgroups, and chats.
- [Microsoft Learning Community](#): Join newsgroups and visit community forums to connect with your peers for suggestions on training resources and advice on your certification path and studies.

Community

Have Questions?

For advice about training and certification, connect with peers:

- [Visit the training and certification forum](#)

For questions about a specific certification, chat with a Microsoft Certified Professional (MCP):

- [Visit our MCP newsgroups](#)

To find out about recommended blogs, Web sites, and upcoming Live Meetings on popular topics, visit our community site:


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