

Study Guide

Exam MD-100: Windows Client

Purpose of this document

This study guide should help you understand what to expect on the exam and includes a summary of the topics the exam might cover and links to additional resources. The information and materials in this document should help you focus your studies as you prepare for the exam.

Useful links	Description
How to earn the certification	Some certifications only require one exam, while others require more. On the details page, you'll find information about what skills are measured and links to registration. Each exam also has its own details page covering exam specifics.
Certification renewal	Once you earn your certification, don't let it expire. When you have an active certification that's expiring within six months, you should renew it—at no cost—by passing a renewal assessment on Microsoft Learn. Remember to renew your certification annually if you want to retain it.
Your Microsoft Learn profile	Connecting your certification profile to Learn brings all your learning activities together. You'll be able to schedule and renew exams, share and print certificates, badges and transcripts, and review your learning statistics inside your Learn profile.
Passing score	All technical exam scores are reported on a scale of 1 to 1,000. A passing score is 700 or greater. As this is a scaled score, it may not equal 70% of the points. A passing score is based on the knowledge and skills needed to demonstrate competence as well as the difficulty of the questions.
Exam sandbox	Are you new to Microsoft certification exams? You can explore the exam environment by visiting our exam sandbox. We created the sandbox as an opportunity for you to experience an exam before you take it. In the sandbox, you can interact with different question types, such as build list, case studies, and others that you might encounter in the user interface when you take an exam. Additionally, it includes the introductory screens, instructions, and help topics related to the different types of questions that your exam might include.

Useful links	Description
	It also includes the non-disclosure agreement that you must accept before you can launch the exam.
Request accommodations	We're committed to ensuring all learners are set up for success. If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an accommodation.
Take a practice test	Taking a practice test is a great way to know whether you're ready to take the exam or if you need to study a bit more. Subject-matter experts write the Microsoft Official Practice Tests, which are designed to assess all exam objectives.

Objective domain: skills the exam measures

The English language version of this exam will be updated on November 2, 2022. If you're taking this exam's English version before this date, the following Skills Measured is what you should study. If you want to review changes to the future version, scroll to the end of this document.

Some exams are localized into other languages, and those are updated approximately eight weeks after the English version is updated. Other available languages are listed in the **Schedule Exam** section of the **Exam Details** webpage. If the exam isn't available in your preferred language, you can request an additional 30 minutes to complete the exam.

Note

The bullets that follow each of the skills measured are intended to illustrate how we are assessing that skill. Related topics may be covered in the exam.

Note

Most questions cover features that are general availability (GA). The exam may contain questions on Preview features if those features are commonly used.

Skills measured

- Install and configure Windows (20–25%)
- Configure and manage connectivity and storage (15–20%)
- Maintain Windows (30–35%)
- Protect devices and data (25–30%)

Functional groups

Install and configure Windows (20–25%)

Install Windows client

- Select the appropriate Windows edition
- Prepare hardware for installation
- Perform a manual clean installation
- Plan and implement an upgrade from a previous version of Windows
- Customize a Windows client installation by using the Windows ADK
- Configure activation and troubleshoot activation issues

Manage and use Hyper-V on Windows client

- Create and configure virtual machines by using Hyper-V
- Manage virtual hard drives
- Manage virtual networks
- Configure Hyper-V settings
- Configure and manage checkpoints
- Enable and use Windows Sandbox

Configure Windows settings

- Configure system settings
- Manage user interface in Windows 10 and Windows 11
- Configure Microsoft Edge
- Configure language and region
- Configure and troubleshoot connections to printers and other devices
- Configure Windows client by using provisioning packages
- Configure startup options
- Configure and manage services
- Install and configure optional features

Configure and manage connectivity and storage (15–20%)

Configure networking and access

- Configure client IP settings
- Configure mobile networking
- Configure VPN client by using built-in tools or Connection Manager Administration Kit (CMAK)
- Configure and manage certificates on client devices
- Troubleshoot client connectivity

Configure and manage storage

- Configure local storage
- Configure OneDrive on Windows client
- Optimize local drives by using Disk cleanup or Storage Sense
- Configure file and folder permissions

Maintain Windows (30–35%)

Perform system and data recovery

- Troubleshoot boot and startup processes
- Recover Windows client
- Recover files
- Create and manage restore points
- Restore from restore points

Manage Windows updates

- Configure updates
- Configure Windows delivery optimization
- Control updates by using group policy settings
- Configure updates by using Windows Update for Business
- Troubleshoot updates

Configure remote management

- Configure Remote Desktop
- Configure Windows Admin Center
- Configure PowerShell remoting and Windows Remote Management
- Configure remote assistance tools including Remote Assist and Quick Assist

Monitor and manage Windows

- Configure and analyze event logs
- Monitor and manage performance and reliability
- Configure scheduled tasks
- Manage registry

Protect devices and data (25–30%)

Manage users, groups, and computer objects

- Manage local users
- Manage local user profiles
- Manage local groups
- Manage Microsoft accounts on Windows client

- Enable users and groups from Active Directory to access Windows client
- Join computers to Active Directory
- Configure sign-in options
- Manage credentials by using Credential Manager
- Configure user account control (UAC)
- Implement and manage Local Administrator Password Solutions (LAPS)

Configure and manage local and group policies

- Troubleshoot local policies and domain group policies on Windows client
- Configure and manage local and group policies, including security policy, user rights assignment, and audit policy
- Configure Windows client settings by using group policy

Manage security settings on Windows client

- Implement BitLocker
- Configure and manage Windows client firewall
- Manage virus and threat protection
- Manage application and browser control settings

Study Resources

We recommend that you train and get hands-on experience before you take the exam. We offer self-study options and classroom training as well as links to documentation, community sites, and videos.

Study resources	Links to learning and documentation
Get trained	Choose from self-paced learning paths and modules or take an instructor-led course
Find documentation	Windows Documentation Windows client documentation for IT Pros Configure Windows client Windows client deployment resources and documentation Manage Windows client Windows security
Ask a question	Microsoft Q&A Microsoft Docs
Get community support	Windows - Microsoft Tech Community
Follow Microsoft Learn	Microsoft Learn - Microsoft Tech Community
Find a video	Exam Readiness Zone Browse other Microsoft Learn shows

Future exam skills measured

Our exams are updated periodically to reflect skills that are required to perform a role. The following skills measured list depicts the additions, deletions, and modifications to the exam.

Change log

Skill area	Change
Audience profile	Minor

Audience Profile

Candidates for this exam are IT professionals who have subject matter expertise in installing, configuring, and maintaining Microsoft Windows clients within a domain infrastructure. Responsibilities

include protecting and maintaining the reliability of the Windows device and the data stored on the device. Candidates for this exam administer Windows clients in a Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra environment. Candidates for this exam may collaborate with the Microsoft 365 enterprise administrator, the Microsoft 365 security administrator, and Windows Server administrators to implement a modern desktop and device strategy that meets the business needs of an organization.

Candidates for this exam must be familiar with device management, client computer networking, policy-based management, and cloud-based solutions.

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