

# Study guide for 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
<a href="#">Review the skills measured as of February 3, 2023</a>	This list represents the skills measured AFTER the date provided. Study this list if you plan to take the exam AFTER that date.
<a href="#">Review the skills measured prior to February 3, 2023</a>	Study this list of skills if you take your exam PRIOR to the date provided.
<a href="#">Change log</a>	You can go directly to the change log if you want to see the changes that will be made on the date provided.
<a href="#">How to earn the certification</a>	Some certifications only require passing one exam, while others require passing multiple exams.
<a href="#">Certification renewal</a>	Microsoft associate, expert, and specialty certifications expire annually. You can renew by passing a <b>free</b> online assessment on Microsoft Learn.
<a href="#">Your Microsoft Learn profile</a>	Connecting your certification profile to Learn allows you to schedule and renew exams and share and print certificates.
<a href="#">Passing score</a>	A score of 700 or greater is required to pass.
<a href="#">Exam sandbox</a>	You can explore the exam environment by visiting our exam sandbox.
<a href="#">Request accommodations</a>	If you use assistive devices, require extra time, or need modification to any part of the exam experience, you can request an accommodation.

Useful links	Description
<a href="#">Take a practice test</a>	Are you ready to take the exam or do you need to study a bit more?

## Updates to the exam

Our exams are updated periodically to reflect skills that are required to perform a role. We have included two versions of the Skills Measured objectives depending on when you are taking the exam.

We always update the English language version of the exam first. 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 as of February 3, 2023

### 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.

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

## **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 Microsoft Local Administrator Password Solution (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
<b>Get trained</b>	<a href="#">Choose from self-paced learning paths and modules or take an instructor-led course</a>
<b>Find documentation</b>	<a href="#">Windows Documentation</a> <a href="#">Windows client documentation for IT Pros</a> <a href="#">Configure Windows client</a> <a href="#">Windows client deployment resources and documentation</a> <a href="#">Manage Windows client</a> <a href="#">Windows security</a>
<b>Ask a question</b>	<a href="#">Microsoft Q&amp;A   Microsoft Docs</a>
<b>Get community support</b>	<a href="#">Windows - Microsoft Tech Community</a>
<b>Follow Microsoft Learn</b>	<a href="#">Microsoft Learn - Microsoft Tech Community</a>
<b>Find a video</b>	<a href="#">Exam Readiness Zone</a> <a href="#">Browse other Microsoft Learn shows</a>

## Change log

Key to understanding the table: The topic groups (also known as functional groups) are in bold typeface followed by the objectives within each group. The table is a comparison between the two versions of the exam skills measured and the third column describes the extent of the changes.

Skill area prior to February 3, 2023	Skill area as of February 3, 2023	Change
Audience profile	Audience profile	No change
<b>Install and Configure Windows</b>	<b>Install and configure Windows</b>	No change
Install Windows Client	Install Windows client	No change

Skill area prior to February 3, 2023	Skill area as of February 3, 2023	Change
Manage and use Hyper-V on Windows Client	Manage and use Hyper-V on Windows client	No change
Configure Windows Settings	Configure Windows settings	No change
<b>Configure and Manage Connectivity and Storage</b>	<b>Configure and manage connectivity and storage</b>	No change
Configure Networking and Access	Configure networking and access	No change
Configure and Manage Storage	Configure and manage storage	No change
<b>Maintain Windows</b>	<b>Maintain Windows</b>	No change
Perform System and Data Recovery	Perform system and data recovery	No change
Manage Windows Updates	Manage Windows updates	No change
Configure Remote Management	Configure remote management	No change
Monitor and Manage Windows	Monitor and manage Windows	No change
<b>Protect Devices and Data</b>	<b>Protect devices and data</b>	No change
Manage Users, Groups, and Computer Objects	Manage users, groups, and computer objects	Minor
Configure and Manage Local and Group Policies	Configure and manage local and group policies	No change
Manage Security Settings on Windows Client	Manage security settings on Windows client	No change

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