

windows 10 started downloading 1809



Download and install the Windows ADK.

The Windows Assessment and Deployment Kit (Windows ADK) and WinPE add-on has the tools you need to customize Windows images for large-scale deployment, and to test the quality and performance of your system, its added components, and the applications running on it. The Windows ADK includes:

The Windows Assessment Toolkit and the Windows Performance Toolkit to assess the quality and performance of systems or components. Deployment tools such as WinPE, Sysprep, and other tools that you can use to customize and deploy Windows 10 images. The Windows Preinstallation Environment (WinPE) as a separate download from the Assessment and Deployment Kit (ADK). To add Windows PE to your ADK installation, download and install the Windows PE add-on after installing the ADK.

Download the ADK for Windows 11.

You can use the Assessment and Deployment Kit for Windows to install Windows 11 and Windows Server 2022.

For previous versions of the ADK, see [Other ADK downloads](#).

[Other ADK downloads](#).

Use the Windows Performance Toolkit for Windows 8.1 that's available in the Windows 8.1 SDK. Assessments are no longer available.

Install the ADK.

Install the ADK based on what works best for your environment.

For computers that are connected to the internet, you can use any of the download links above. For secure manufacturing environments, you can install the Windows ADK offline. For automated installs, you can silently install the Windows ADK.

[Windows ADK tools for IT pros](#).

Windows ADK contains core assessment and deployment tools that IT Pros can use to deploy Windows 10 company-wide, including the User State Migration Tool (USMT) and Volume Activation Management Tool (VAMT).

Install OpenSSH.

OpenSSH is a connectivity tool for remote login that uses the SSH protocol. It encrypts all traffic between client and server to eliminate eavesdropping, connection hijacking, and other attacks.

OpenSSH can be used to connect Windows 10 (build 1809 and later) or Windows Server 2019 devices with OpenSSH Client installed to those devices with OpenSSH Server installed.

If you downloaded OpenSSH from the GitHub repo at [PowerShell/openssh-portable](#), follow the instructions listed there, not the ones in this article.

[Install OpenSSH using Windows Settings](#).

Both OpenSSH components can be installed using Windows Settings on Windows Server 2019 and Windows 10 devices.

To install the OpenSSH components:

Open Settings , select Apps > Apps & Features , then select Optional Features .

Scan the list to see if the OpenSSH is already installed. If not, at the top of the page, select Add a feature , then:

Find OpenSSH Client , then click Install Find OpenSSH Server , then click Install.

Once setup completes, return to Apps > Apps & Features and Optional Features and you should see OpenSSH listed.

Installing OpenSSH Server will create and enable a firewall rule named OpenSSH-Server-In-TCP . This allows inbound SSH traffic on port 22. If this rule is not enabled and this port is not open, connections will be refused or reset.

[Install OpenSSH using PowerShell](#).

To install OpenSSH using PowerShell, run PowerShell as an Administrator. To make sure that OpenSSH is available, run the following cmdlet:

This should return the following output if neither are already installed:

Then, install the server or client components as needed:

Both of these should return the following output:

Start and configure OpenSSH Server.

To start and configure OpenSSH Server for initial use, open PowerShell as an administrator, then run the following commands to start the sshd service :

Connect to OpenSSH Server.

Once installed, you can connect to OpenSSH Server from a Windows 10 or Windows Server 2019 device with the OpenSSH client installed using PowerShell as follows. Be sure to run PowerShell as an administrator:

Once connected, you get a message similar to the following:

Selecting yes adds that server to the list of known SSH hosts on your Windows client.

You are prompted for the password at this point. As a security precaution, your password will not be displayed as you type.

Once connected, you will see the Windows command shell prompt:

Uninstall OpenSSH using Windows Settings.

To uninstall OpenSSH using Windows Settings:

Open Settings , then go to Apps > Apps & Features . Go to Optional Features . In the list, select OpenSSH Client or OpenSSH Server . Select Uninstall .

Uninstall OpenSSH using PowerShell.

To uninstall the OpenSSH components using PowerShell, use the following commands:

You may need to restart Windows afterwards if the service was in use at the time it was uninstalled.

Microsoft starts auto-update of Windows 10 1809 three months late.

Microsoft this week restarted the automatic distribution of Windows 10 October 2018 Update, the problem-plagued upgrade that was pulled from release just days after its initial debut.

"We are now starting our phased rollout to users via Windows Update, initially offering the update to devices we believe will have the best update experience based on our next-generation machine-learning model," Microsoft said in a refreshed support document.

That rollout was supposed to start three months ago.

Microsoft began offering the October 2018 Update, aka 1809 in its four-number yymm designation, on Oct. 2, but only to those who manually sought the feature upgrade (so-called "seekers") who clicked on "Check for Updates" within the OS. Within days, however, it blocked that access after acknowledging that some users' files had been irretrievably lost.

If that hadn't happened, Microsoft would have probably begun pushing the upgrade to users later in October. Microsoft stages delivery of its feature upgrades by first giving the code to a few, starting with PCs that telemetry signals are most likely to successfully install the refresh without problems. Only when it's satisfied that everything is going smoothly does Microsoft expand delivery to more systems.

But because of the situation's seriousness, Microsoft initially re-released 1809 only to volunteers in the Windows Insider program. Not until December was the company confident enough in the upgrade to again offer it to all seekers.

Now, a month later, 1809 has started showing up on some Windows 10 PCs that relied on the consumer-grade Windows Update service.

That timetable put 1809 into a serious hole, as Computerworld noted earlier this month. Citing data from AdDuplex - which put 1809's adoption rate at only an eighth of its October 2017 predecessor's - Computerworld pointed out that without a delay by successor 1903, expected to begin release in April, many users would be forced to migrate from 1809 after running it as few as two and a half months.

Microsoft's feature upgrade schedule for Windows 10 posits six-month intervals between releases, implicitly pledging that each will run for that same six-month stretch on the Windows 10 Home systems that cannot defer upgrades.

Based on the Jan. 16 roll-out restart for 1809, consumer PCs will run the upgrade for three months before being required to drop that build and install 1903. (The same personal computers identified by Microsoft as having "the best update experience" for 1809 will almost certainly be pegged as the earliest recipients of 1903.)

Microsoft did reset the support timeline for 1809 because of the debacle. The original end of support for Windows 10 Home 1809 and Windows 10 Pro 1809 was April 14, 2020; support for Windows 10 Enterprise 1809 and Windows 10 Education 1809 was to expire on April 13, 2021. Instead, the new end-of-support dates were pegged as May 12, 2020 (Home and Pro), and May 11, 2021 (Enterprise and Education).

Senior Reporter Gregg Keizer covers Windows, Office, Apple/enterprise, web browsers and web apps for Computerworld.

Windows 10 update history.

Updates for Windows 10, version 2004 and Windows Server, version 2004.

Windows 10 is a service, which means it gets better through periodic software updates.

The great news is you usually don't have to do anything! If you have enabled automatic updates, new updates will automatically download and install whenever they're available, so you don't have to think about it.

On the left side of this page, you'll find a list of all the updates released for this version of Windows. You can also find more information about releases and any known issues. Installing the most recent update ensures that you also get any previous updates you might have missed, including any important security fixes.

For more information about the update and how to get it, see:

Current status of Windows 10, version 2004 and Windows Server, version 2004.

For the most up-to-date information about Known Issues for Windows and Windows Server, please go to the Windows release health dashboard.

Known issues.

Certain Japanese half-width Katakana and full-width Katakana characters that have a consonant mark aren't interpreted as the same character. When you use the CompareStringEx() function with the NORM_IGNOREWIDTH flag to compare them, these characters are evaluated as different because of an issue in the sorting rule. This issue affects all the updates starting on June 9, 2020 for Windows 10, version 2004.

Open the Command Prompt window (cmd.exe) with elevated privileges.

Run "reg add HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Nls\Sorting\Versions /ve /d 0006020F /f"

Restart the computer or processes to see the full effect.

Important If you have not installed KB4586853 or later on the computer, setting an invalid value in this registry might prevent the computer from starting up.

This workaround reverts the National Language Support (NLS) sorting rule to version 6.2, which is used in Windows 10, version 1909 and earlier. When sharing data between systems, consider applying the workaround consistently. If you use this workaround, conduct sufficient testing and evaluations to mitigate problems caused by different sorting rule versions on multiple systems.

Notes and messages.

General.

IMPORTANT Release notes are changing! To learn about the new URL, metadata updates, and more, see What's next for Windows release notes.

4/13/21 **REMINDER** Microsoft removed the Microsoft Edge Legacy desktop application that is out of support in March 2021. In the April 13, 2021 release, we installed the new Microsoft Edge. For more information, see New Microsoft Edge to replace Microsoft Edge Legacy with April's Windows 10 Update Tuesday release.

IMPORTANT Starting in July 2020, we will resume non-security releases for Windows 10 and Windows Server, version 1809 and later. There is no change to the cumulative monthly security updates (also referred to as the "B" release or Update Tuesday release). For more information, see the blog post Resuming optional Windows 10 and Windows Server non-security monthly updates.

IMPORTANT Starting in July 2020, all Windows Updates will disable the RemoteFX vGPU feature because of a security vulnerability. For more information about the vulnerability, see CVE-2020-1036 and KB4570006. After you install this update, attempts to start virtual machines (VM) that have RemoteFX vGPU enabled will fail, and messages such as the following will appear:

If you re-enable RemoteFX vGPU, a message similar to the following will appear:

"The virtual machine cannot be started because all the RemoteFX-capable GPUs are disabled in Hyper-V Manager."

"The virtual machine cannot be started because the server has insufficient GPU resources."

"We no longer support the RemoteFX 3D video adapter. If you are still using this adapter, you may become vulnerable to security risk. Learn more (<https://go.microsoft.com/fwlink/?linkid=2131976>)"

Troubleshooting.

If you have questions or need help activating or troubleshooting Windows, see our help topics below:

For information about how to update, see [Update Windows 10](#).

If you have questions about manually installing or removing an update, see [Windows Update: FAQ](#).

Getting an error message when updating? See [Troubleshoot problems updating Windows 10](#).

If you need to activate Windows, see [Activation in Windows 10](#). If you're having trouble with activation, see [Get help with Windows activation errors](#).

To get the latest major update to Windows 10, see [Get the Windows 10 October 2020 Update](#).

Start fresh with a clean installation of Windows 10.

Use this tool to install a clean copy of the latest version of Windows 10 Home or Windows 10 Pro, and remove apps that you installed or came pre-installed on your PC. You'll have the option to keep your personal files.

If you're looking to upgrade your existing Windows 7 or Windows 8.1 PC, go to [Get Windows 10](#) to learn more about upgrade options. If you're on an Enterprise or Education edition, the tool won't work for a clean installation. Please see the [Volume Licensing Service Center](#) for more information.