

Windows

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Common Settings

Change your display refresh rate in Windows



The refresh rate of a display is the number of times per second that the image refreshes on the screen. For example, a 60Hz display will update the screen 60 times per second.

Overall, the refresh rate determines how smoothly motion appears on your screen. For example, if you're playing a game that has a lot of fast-moving action, a higher refresh rate can help improve your overall gaming experience to keep up with the action. A higher refresh can also help you get a better experience with smoother motion when you're browsing the web or using a digital pen to write or draw.

A higher refresh rate can also reduce battery life because it uses more power. So if you're using a laptop or tablet and want to save some battery, you could lower the refresh rate. However, that might also reduce the overall experience when you're using your device.

To change the refresh rate in Windows 10

1. Select the **Start** button, then select **Settings** > **System** > **Display** > **Advanced display settings**.
2. Under **Refresh rate**, select the rate you want.
The refresh rates that appear depend on your display and what it supports. Select laptops and external displays will support higher refresh rates.

To change the refresh rate in Windows 11

1. Select **Start** > **Settings** > **System** > **Display** > **Advanced display**.
2. Next to **Choose a refresh rate**, select the rate you want.
The refresh rates that appear depend on your display and what it supports. Select laptops and external displays will support higher refresh rates.

Note:

You might see the word “**dynamic**” next to some refresh rates that are listed. **Dynamic** refresh rates will increase the refresh rate automatically when you’re inking and scrolling, and then lower it when you’re not doing these types of things. This helps to save battery and provide a smoother experience.

Please **DISABLE** dynamic refresh rate.

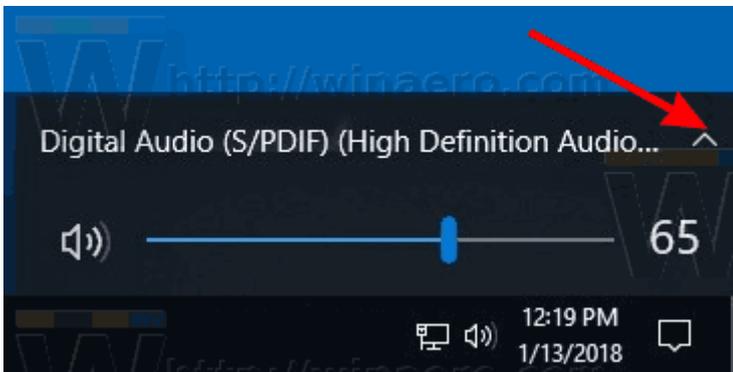
Dynamic refresh rate will interfere with displaying images on the Smartboards

How to change audio playback medium in Windows

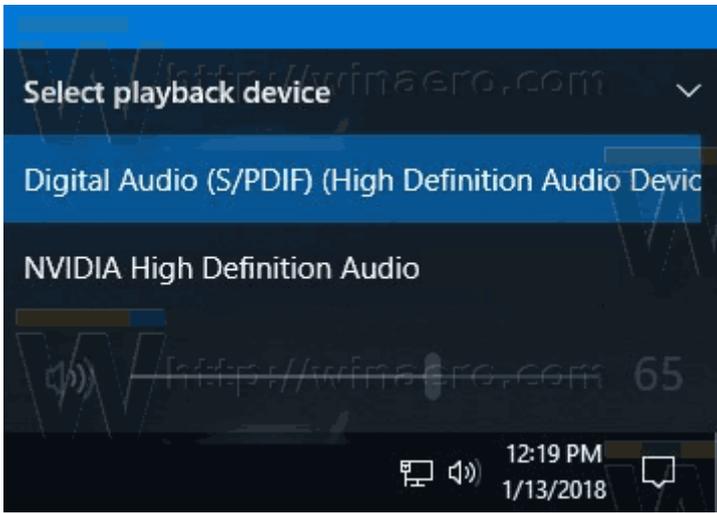
Windows 10

To change the Default Audio Device, do the following.

1. Click on the sound volume icon in the system tray.
2. Click on the up arrow in the sound flyout.



3. Choose the desired audio device from the list.



From <<https://winaero.com/change-default-audio-device-windows-10/>>

Printing

Printing Troubleshooting



Printing issues can be a hassle, especially when you're in a hurry to get things done. Here are a few easy steps you can take to troubleshoot printing problems at Franklin Towne Charter Elementary School:

Step 1: Choose the Right Printer

Make sure you've chosen the right printer for your document. We have two printer options:

FTCE-RicohFollowMe and FTCE-CannonFollowMe. Most likely your workstation already have the printer installed. Check with your IT department to see which printer is best for your needs.

Also, make sure you're connected to the right Wi-Fi network. Printing only works from FTCE-SECURE because it's tied to our Active Directory system.

Step 2: Check Your Print Settings

Check the settings on your computer before you print. Make sure you have the right paper size, orientation, and other options selected. If you're printing a big file or a high-quality image, try printing it in smaller sections or lower the print quality to avoid problems.

Step 3: Restart the Print Spooler

If your document is stuck in the print queue or is taking a long time to print, try restarting the print spooler on your computer. This will clear the print queue and help your document print faster. To do this, go to Services and look for the Print Spooler service. Right-click on the service and select Restart.

Step 4: Check for Driver Updates

If you're still having trouble printing, it may be time to update your printer driver. Go to the manufacturer's website and look for the latest drivers for your specific printer model. Download and install the updates to ensure that your printer is working at its best.

In conclusion, troubleshooting printing issues doesn't have to be a headache. With these simple steps, you can quickly identify and resolve common problems. If you're still having trouble, don't hesitate to contact your IT department for help. They're always happy to assist you.

Windows Protected Print Mode (WPP)

info icon

Should I switch on WPP now?

Not yet! PaperCut is actively working on a solution to support printing with Windows Protected Print Mode. Sign up for early access through our [Percolator program](#).

What is Windows protected print mode?

Windows protected print mode (WPP) is a security-enhanced printing platform for Windows that runs with lower privileges and uses Internet Printing Protocol (IPP) to eliminate the need for third-party drivers. Together, these remove significant security risks that can lead to attackers gaining SYSTEM-level access.

Whether you're an IT manager, security professional, or business owner, understanding the impact and benefits of WPP is essential as it changes the landscape of print infrastructure. This page provides a comprehensive overview of WPP, its timeline, and how your organization can prepare for and benefit from this powerful security feature.

Why Microsoft is introducing Windows Protected Print Mode

According to Microsoft, 9% of Windows security issues reported to the Microsoft Security Response Center (MSRC) were caused by print stack-related issues. The fact that the spooler runs with system privileges and has to load code over the network makes the entire operating system vulnerable to malware.

Print Nightmare allowed hackers to exploit this vulnerability to install programs remotely, view and delete data or even create new user accounts with full user rights. Another spooler-related weakness was exploited by the Stuxnet virus, which was used as a digital weapon to gain remote access to the computers that controlled centrifuges at an Iranian uranium enrichment plant. This allowed the attackers to configure the fast-spinning centrifuges to tear themselves apart.

Print Nightmare patches are a temporary workaround that now requires admin rights to install printers. The admin rights requirement only protects a shared computer, where one user might have installed a printer driver with malware that would compromise others on the computer too. This change doesn't fix the spooler privilege issue that is exploitable by a driver with malware, and it introduces user experience issues by forcing admin privileges just to install printers.

The proper solution is Windows Protected Print Mode, as it removes the fundamental flaw of drivers and moves the world of printers forward to finally settle on the IPP standard. At PaperCut, we support Microsoft's decision, even though it will cause some adoption friction.

As an aside, Windows isn't the only operating system plagued by a vulnerable print platform. CUPS, used in Linux, macOS, and ChromeOS, also has a long history of security issues. In September 2024, new reports showed how it is possible to remotely execute code on a Linux computer without requiring authentication. Some Linux distributions, like Ubuntu, are planning to limit access to the rest of the operating system by moving CUPS into a containerised Snap App.

How Windows Protected Print Mode works

WPP uses modern standards and secure communication methods to ensure a robust and consistent printing experience. Here are some of the key details.

1. Printer and job delivery is based on Internet Printing Protocol (IPP)
 - WPP uses IPP as the core transport protocol - a well-established, open standard that provides a framework for printer discovery, job submission, and status tracking.
 - IPP allows WPP to support advanced features such as finishing options, job status updates, and access control, enabling a richer printing experience.
 - The port monitor used when adding a WPP print queue is Microsoft's new IPP port, which provides a richer set of IPP functions.
2. No more third-party printer drivers and modules
 - WPP forces a driverless printing model. When it's enabled, client computers can no longer load third-party printer drivers, eliminating the risk of attackers loading malicious code.

- In addition to the printer drivers, the loading of other, less well-known modules, such as third-party print providers, is blocked.
 - WPP prevents Point and Print from ever installing third-party printer drivers. This eliminates the risk of an attacker pretending to be a printer and tricking users into installing malicious software.
3. Common print spooler tasks are now run at lower privilege level
- Since the drivers are no longer required to run as SYSTEM, most common spooler tasks can now run as USER.
 - This reduces the risk of a rogue or a buggy program taking down the whole machine. The impact will be limited to actions only the user can perform.

The challenges of transitioning to Windows Protected Print Mode

When you switch on Windows Protected Print Mode, the existing print queues and drivers on the computer will be permanently deleted. You won't get them back if you decide to switch WPP off. It is an all-or-nothing setting.

You can't use a driver for some printers while using Windows Protected Print Mode for others. If WPP is enabled, print drivers are nonexistent.

Not all printers are equal. Based on a sample of thousands of printer models we assessed, roughly 70% of printers will work seamlessly over IPP. For the rest, they will either function with reduced speed, lower quality or not at all.

Existing scripts that system admins may have in use, such as printui scripts to manage printers, won't work anymore.

How enabling WPP will affect organizations and their print infrastructure

To understand how enabling Windows Protected Print Mode might affect organizations, let's use a hypothetical scenario:

“

The university IT administrator's dilemma

Alex, the lead IT administrator at a mid-sized university, heard about WPP during a recent security conference.

The idea of having a more secure, driverless printing environment using the Internet Printing Protocol (IPP) sounded like a great way to tighten the university's security. With hundreds of devices across different departments, ensuring that no vulnerabilities could be exploited through outdated drivers or unmonitored print processes seemed like a major win.

Eager to implement WPP, Alex decided to enable it across the university's network, confident that this would reduce risks and future-proof the printing setup. The change went live during a routine maintenance window, with IT teams monitoring performance and response.

However, as the next day began, emails started flooding in from staff and students across campus. The university's fleet, consisting of older and newer printers, faced a serious issue: **30% of the printers weren't working!** Despite being reliable for everyday use, they weren't Mopria compliant and/or IPP-compatible.

The Issues staff and students were experiencing

1. Printer Recognition Problems: Some of the older printers weren't showing up in Windows' printer lists anymore and attempts to manually add printers were failing with error messages "can't add"
2. Loss of Features: Other printers were partially working, but features like stapling, colour management, and even advanced security protocols like pull printing were no longer functional. This disrupted the workflows of departments that relied heavily on advanced printing tasks.
3. User Frustration: Professors were missing critical deadlines to print exams, and research departments couldn't print their reports. The more Alex's team tried to patch things up, the more they realised the

issue was systemic: these printers did not support IPP and were reliant on specific drivers that WPP no longer allowed.

Lessons learned

In retrospect, Alex realized that turning on WPP without fully assessing the fleet was premature. **While the security benefits were undeniable, it required careful planning and implementation.**

Will my printer work with Windows Protected Print Mode?

Mopria has an [online list of certified printers](#) you can use to check your printer models.

Although a printer could be listed as Mopria-certified, it doesn't necessarily mean it will work with WPP or that you will get the most out of your printer once you switch over to using IPP in WPP mode.

At the time of writing, Windows Protected Print Mode deems some IPP attributes mandatory, even though they are technically specified as optional according to Mopria standards, such as the hardware ID. Additionally, WPP requires some IPP values to be in a specific format that some printers do not follow.

Some printers that support IPP don't necessarily support PDF-based spool files; instead, they only support formats like URF/raster or JPEG. This still follows the specification, but these spool files will be much larger and often print in lower quality. In addition to being larger, these formats require the entire print job to be submitted to the printer before the printer can start printing them, which results in slower printing or even failure to print larger documents as the printer can't store the entire print job.

For now, the best way to confirm that your printer is ready for WPP is to enable WPP on a test Windows machine and print from it. If your printer can't be found when WPP is enabled, you know it's incompatible.

Check different finishing options, especially more advanced options like stapling and tray selection if the printer supports it.

Options for printers that are non-compliant with Windows Protected Print Mode

We are making changes in PaperCut MF/NG and PaperCut Hive/Pocket to support printers that are WPP ready and also printers that are not WPP ready. You can [sign up for PaperCut MF/NG Early Access](#) now. PaperCut Hive/Pocket Early Access registrations will open in November.

Alternatively, if your printers are not ready, your printer manufacturer may soon provide a firmware update if your printers are not too old, so keep an eye out.

How to switch on Windows Protected Print Mode

Enable WPP mode via Settings

How to enable WPP on your computer

1. Navigate to Settings > Bluetooth & devices > Printers & scanners > Printer preferences

papercut WPP navigate to Settings > Bluetooth & devices > Printers & scanners > Printer preferences

2. Click 'Set Up'. Windows will display a warning message.

papercut WPP Click Set Up Windows will display a warning message.

3. Additionally, if WPP-incompatible print queues (such as standard TCP/IP queues) were already installed, Windows would warn that they would be removed.

papercut wpp warning

4. After successful completion, WPP should be turned on.

papercut WPP should be turned on

Enable WPP mode via Group Policy

Via Group Policy Editor > Administrative Templates > Printers > Configure Windows protected print > Edit

papercut wpp group policy approach

Timeline and updates

Note that these dates are subject to change:

01 OCTOBER 2024

When you enable Windows Protected Print Mode for the first time after the 24H2 upgrade, the existing incompatible (such as TCP/IP) queues may not get deleted. Also, you may still be able to create TCP/IP print queues. A system reboot may fix the issues. This is a known issue, and Microsoft is working on fixing it.

04 OCTOBER 2024

Microsoft is pushing the patch [KB5043178](#) to fix Windows protected print anomalies soon. The estimated rollout date is 8th October.

NOVEMBER 2024

First PaperCut MF/NG Windows Protected Print Mode release planned.

JANUARY 2025

First PaperCut Hive/Pocket Windows Protected Print Mode release planned.

2027

Windows Protected Print Mode is enabled by default.

Further reading

- The official [Microsoft Windows Protected Print Mode announcement](#)

- [More from Microsoft about WPP](#)
- Microsoft's [Windows protected print mode FAQ](#)

Advanced How-to's

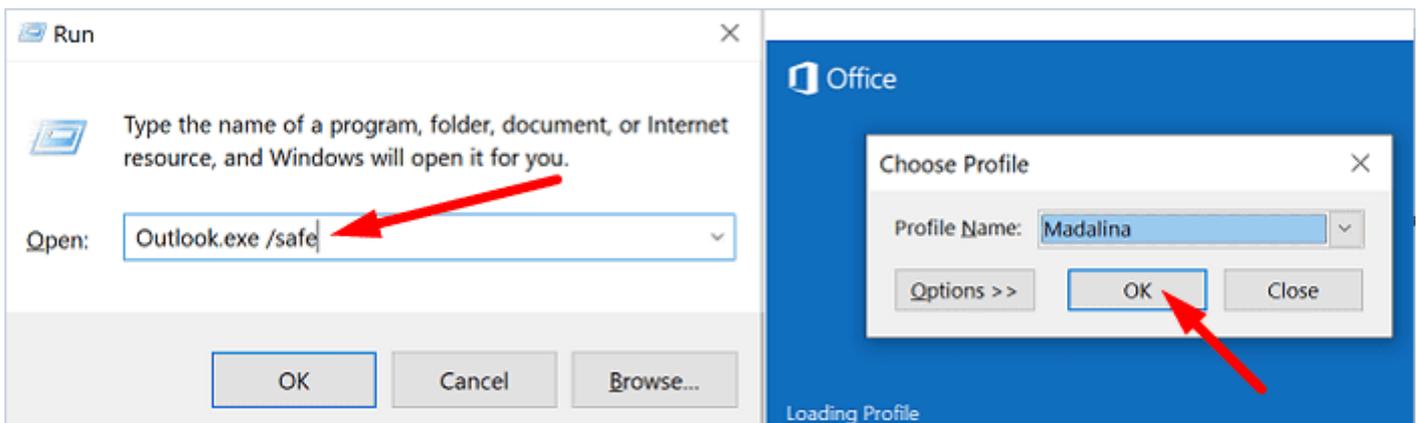
This Chapter is dedicated to the IT department

How to Fix “The Set of Folders Cannot Be Opened” Error in Outlook

⇒ Important Note: Back up your Outlook data before pursuing the solutions below.

Launch Outlook in Safe Mode

Press the Windows and R keys to launch a new Run window. Then type Outlook.exe /safe, and hit OK.

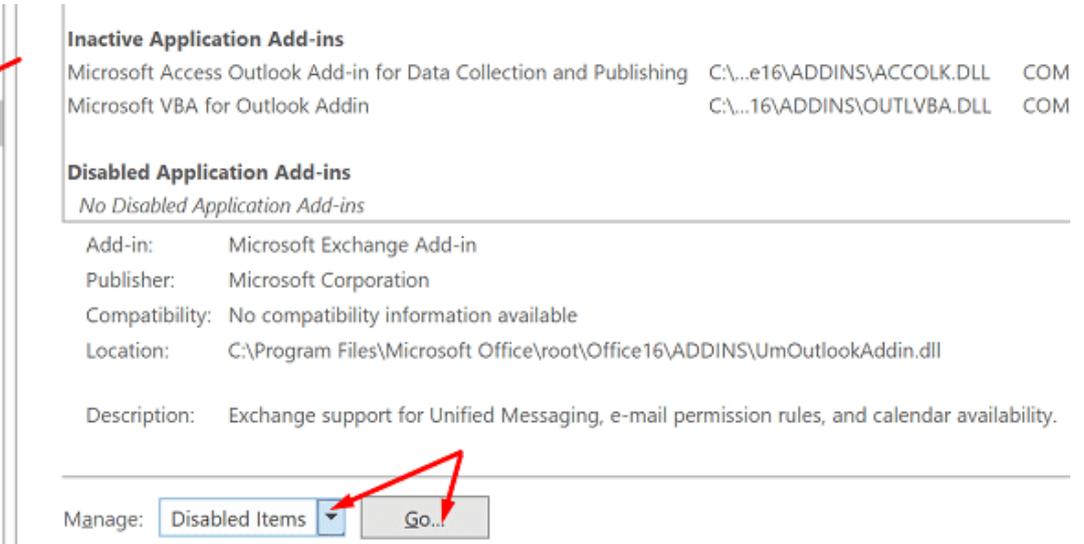


If the issue is gone in Safe Mode, most likely, your add-ins are to blame. Go to the next step and disable your add-ins.

Disable Your Add-Ins

1. Launch Outlook and go to File.
2. Select Options, and click on Add-ins.
3. Click on Manage and hit the Go button.

4.



The screenshot shows the Outlook Add-ins management window. On the left, the 'Add-ins' tab is selected, indicated by a red arrow. The main area is divided into two sections: 'Inactive Application Add-ins' and 'Disabled Application Add-ins'. The 'Inactive' section lists two add-ins: 'Microsoft Access Outlook Add-in for Data Collection and Publishing' and 'Microsoft VBA for Outlook Addin'. The 'Disabled' section shows 'No Disabled Application Add-ins' and details for the 'Microsoft Exchange Add-in'. At the bottom, the 'Manage:' dropdown is set to 'Disabled Items' and the 'Go...' button is highlighted with a red arrow.

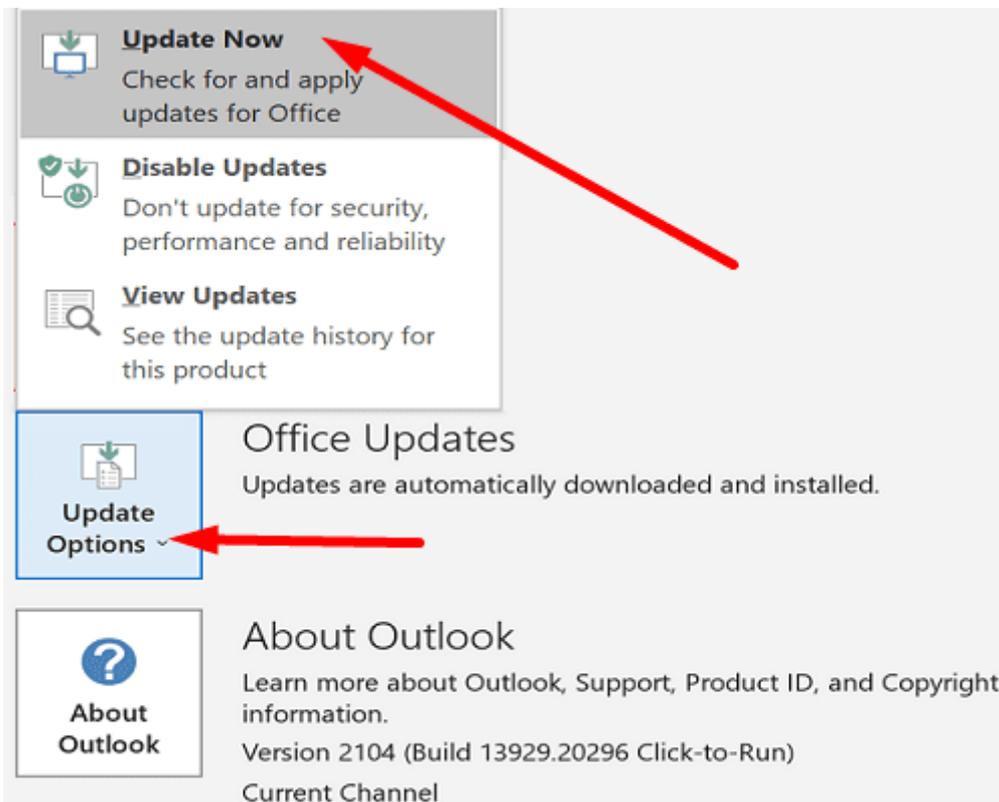
Inactive Application Add-ins			
Microsoft Access Outlook Add-in for Data Collection and Publishing	C:\...e16\ADDINS\ACCOLK.DLL	COM	
Microsoft VBA for Outlook Addin	C:\...16\ADDINS\OUTLVBA.DLL	COM	

Disabled Application Add-ins	
<i>No Disabled Application Add-ins</i>	
Add-in:	Microsoft Exchange Add-in
Publisher:	Microsoft Corporation
Compatibility:	No compatibility information available
Location:	C:\Program Files\Microsoft Office\root\Office16\ADDINS\UmOutlookAddin.dll
Description:	Exchange support for Unified Messaging, e-mail permission rules, and calendar availability.

Manage:

5. Select the add-ins you want to disable and save the changes.

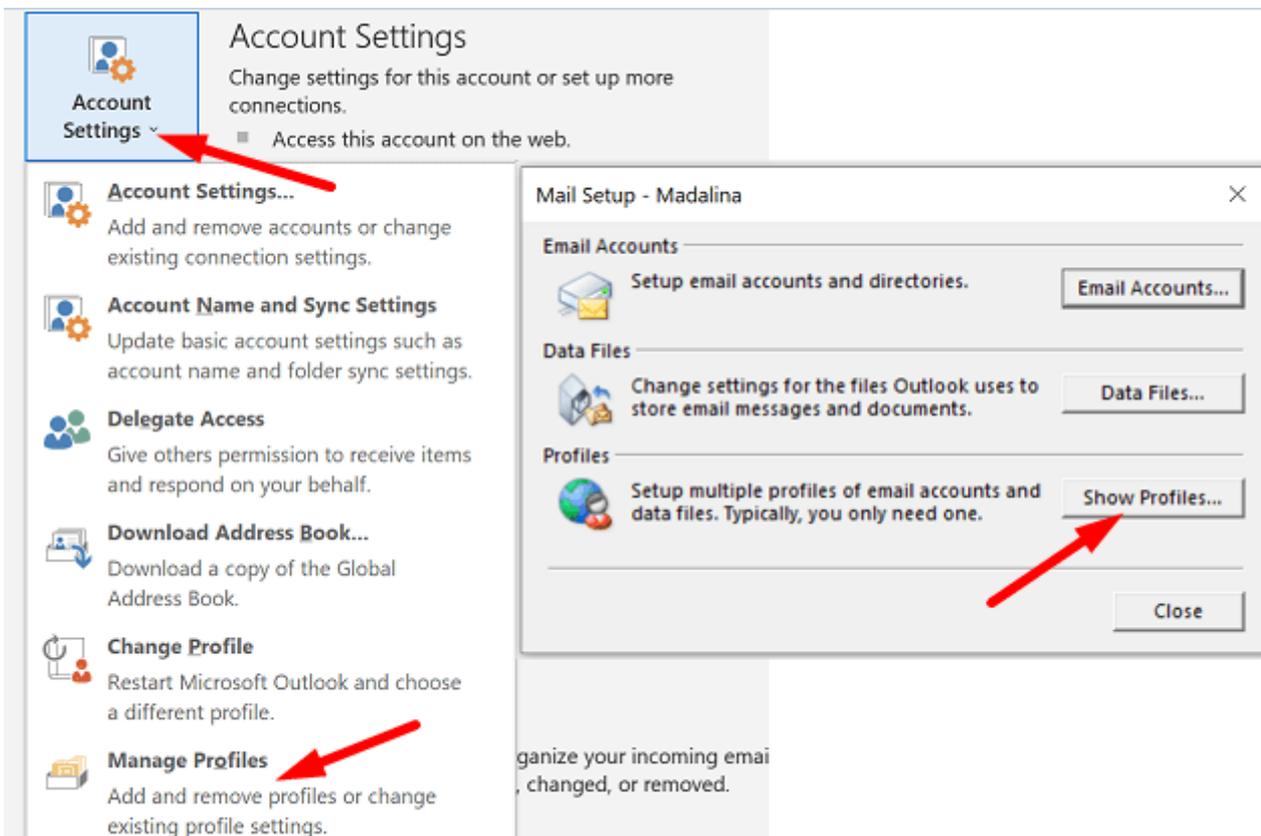
Don't forget to update your Outlook version. Click on File, select Office Account, and go to Office Update. Click on Update Options and select Update now to update your email client.



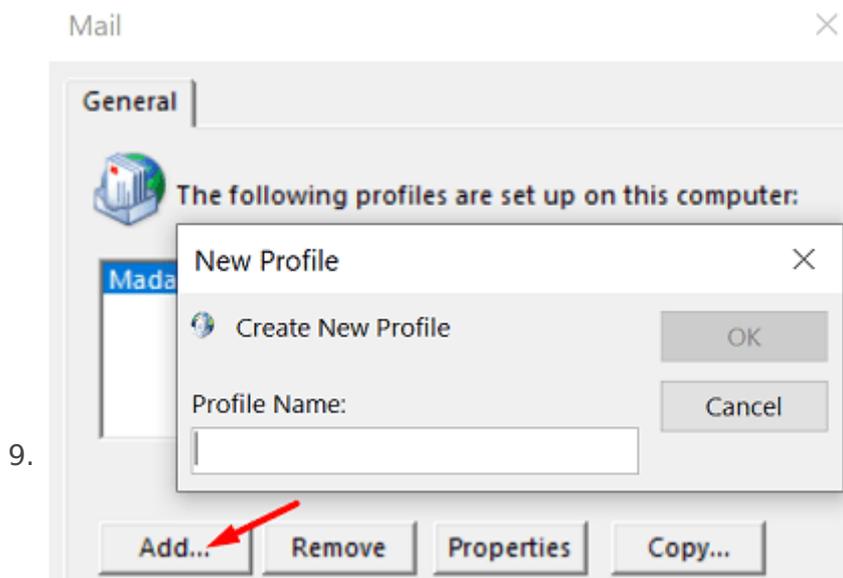
Recreate Your Email Profile

Some users were able to fix this error by recreating their email profiles.

1. Type regedit in the Windows Search bar and launch the Registry Editor.
2. Then, navigate to
Computer\HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\16.0\Outlook\Profiles
3. Go ahead and delete all the folders listed under Profiles.
 - Note: Depending on your Office version, you may need to navigate to
Computer\HKEY_CURRENT_USER\SOFTWARE\Microsoft\Office\15.
4. Relaunch Outlook and recreate your email profile.
5. Go to File, select Account Settings, and click on Manage Profiles.



7. Then go to Show Profiles and hit the Add button.
8. Enter all the necessary details in the Profile Name box and save the changes.



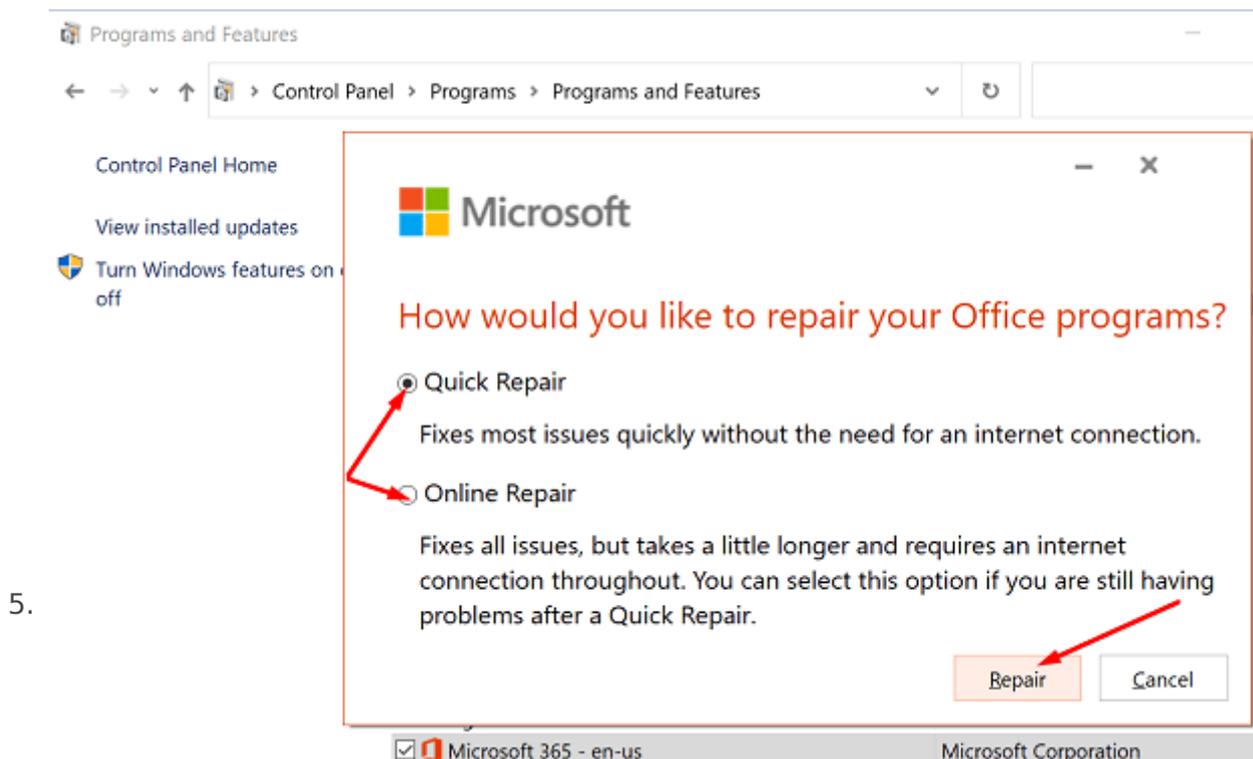
9.

Alternatively, if you're not comfortable using the Registry Editor, you can only follow the steps from 5 to 8 to create a new profile.

If you can't create a new profile using Outlook, go to Control Panel → Mail → Show Profiles → Add.

Repair Office

1. Go to Control Panel and select Programs.
2. Click on Programs and Features and select your Office package.
3. Hit the Change button and launch the Quick Repair tool.
4. If the error persists and you still can't use Outlook properly, run the Online Repair tool as well.



Repair Outlook

1. Go to Settings and select Apps.
2. Then click on Apps and Features and select Outlook (or Outlook Desktop Integration).
3. Go to Advanced options and hit the Repair option.

Outlook Desktop Integration

Reset

If this app isn't working right, we can try to repair it. The app's data won't be affected.

Repair

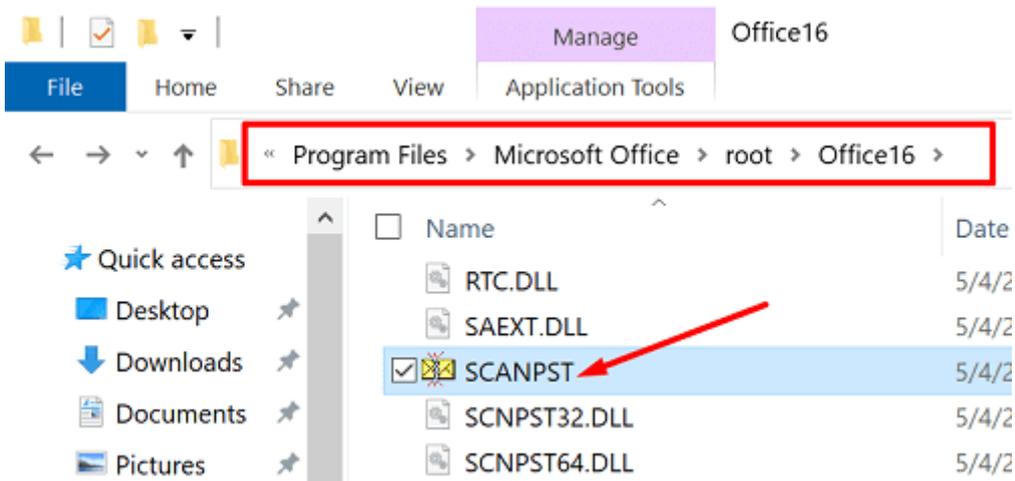
If this app isn't working right, reset it. The app's data will be deleted.

Reset

Alternatively, you can repair the Outlook data file (.pst) file directly.

1. Close Outlook and navigate to Outlook 2016/2019: C:\Program Files (x86)\Microsoft Office\root\Office16 or Outlook 2013: C:\Program Files (x86)\Microsoft Office\Office15 (depending on your Office version).
2. Locate and run SCANPST.EXE.

3.



4. Click on Browse to select the Outlook Data File (.pst).
5. Hit the Start button and then select the Repair option.

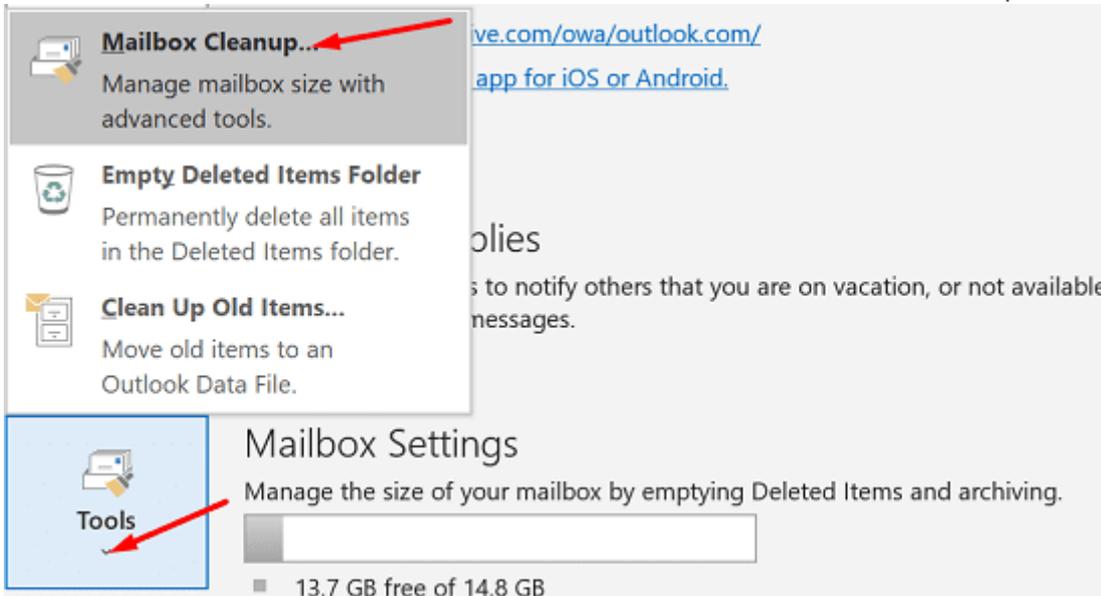
Run Microsoft's Support and Recovery Assistant

There's another handy tool that you can use to repair Outlook. The Microsoft Support and Recovery Assistant can quickly find and repair various Office and Outlook issues. [Download the tool from Microsoft](#), install it on your computer, and follow the on-screen instructions to repair Outlook.

Reduce Outlook Data Size

Large mailboxes can take an awful lot of time to open. Apart from that, they may also trigger various errors while loading. Reduce the size of your mailbox and Outlook data files and check if the error persists.

1. Launch Outlook, click on File, select Tools, and click on Mailbox Cleanup.

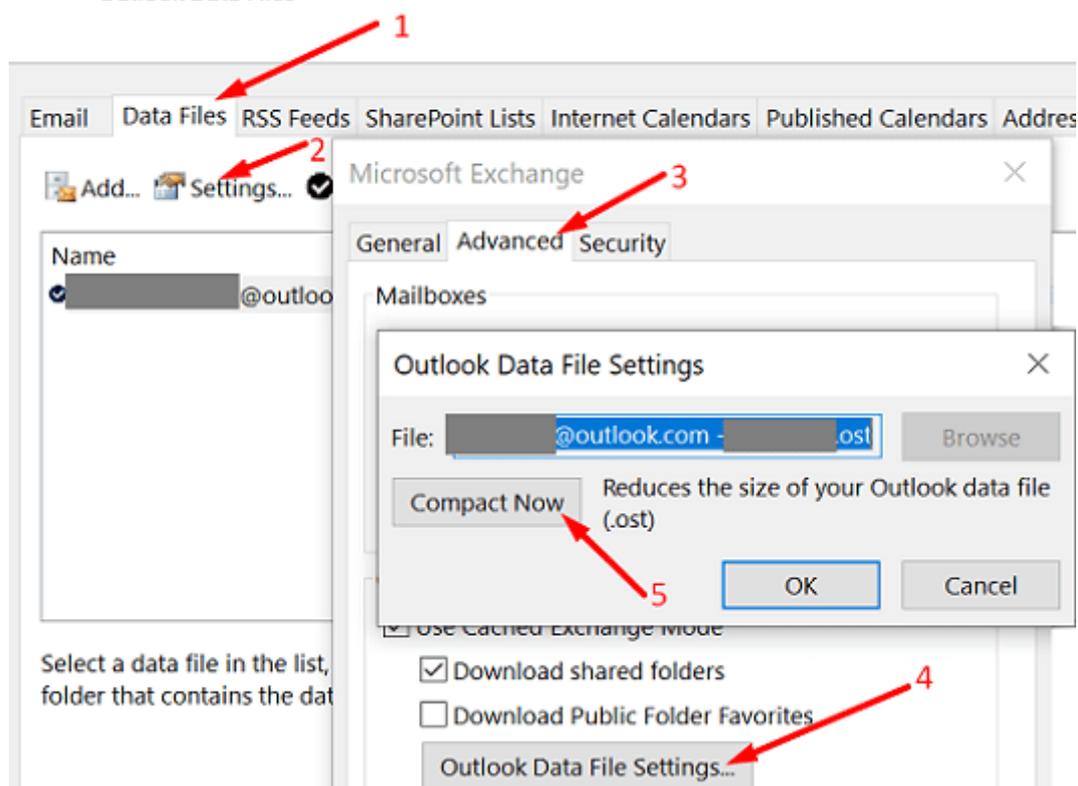


3. Select the items you want to remove and confirm your choice.
4. To reduce the size of the data file, empty the Deleted Items folder.
5. Then click on File, and select Account Settings.
6. Go to the Data Files tab, and select the file that you want to compact.
7. Go to Settings and hit the Compact Now option.

Account Settings

Data Files

Outlook Data Files



Exchange and Outlook.com users need to click on Settings → Advanced → Outlook Data File Settings.

Reinstall Outlook

If you're using the standalone desktop app, uninstall it and restart your computer. Then download Outlook again (the 64-bit version). If the error persists, go to Control Panel and select Uninstall a program. Then uninstall your Office package, restart your machine again and reinstall Office. Check the results.

Conclusion

Microsoft Outlook may sometimes fail to launch with the "The set of folders cannot be opened" error. To fix it, launch Outlook in Safe Mode and disable your add-ins. Then repair Office and Outlook, create a new user profile and reinstall the email client. Which of these solutions worked for you?

Export drivers from Windows



PowerShell – Export drivers from Windows

You can easily export drivers from Windows OS using PowerShell. Using the `Export-WindowsDriver` cmdlet, you can export all third-party drivers from a Windows image to a destination folder.

The advantage of exporting the drivers is you can restore them when you require. Once you perform Windows 10 clean install, with this backup you can quickly install all the necessary drivers. In addition, if you deploy OS using MDT, you can always import the drivers and use it to deploy using [Configuration Manager](#).

The `Export-WindowsDriver` cmdlet exports all third-party drivers from your computer to a destination folder. You can either export drivers from the running operating system or export drivers from an offline image.

Export-WindowsDriver Parameters

There are several parameters which you can use while running `Export-WindowsDriver` cmdlet. Some of the parameters include:

- **-Destination** - Specify a folder or directory where you want to export third-party drivers.
- **-LogLevel** - Specifies the maximum output level shown in the logs.
- **-LogPath** - You can log the export process by adding the log file name and path.
- **-Path** - Specifies the full path to the root directory of the offline Windows image that you will service.
- **-WindowsDirectory** - Enter the relative path to the Windows directory relative to the image path.
- **-SystemDrive** - Specifies the path to the location of the BootMgr files.
- **-ScratchDirectory** - Specifies a temporary directory that will be used when extracting files for use during servicing.

PowerShell – How to Export drivers from Windows

To export drivers using PowerShell from Windows 10

- On your Windows 10, right click Start and click Windows PowerShell (admin).
- Enter the command `Export-WindowsDriver -Online -Destination D:\Drivers`. The D:\Drivers is the folder where all of your computer's third-party drivers will be exported.

PowerShell - Export drivers from Windows

```
Administrator: Windows PowerShell PS C:\> Export-WindowsDriver -Online -Destination D:\Drivers rivi
```

Now go to the destination folder and you will see the folders containing the drivers.

So next time when you install Windows 10, you don't need to go to vendors website and search for drivers. With this backup you can quickly install all the necessary drivers.

And finally let me clarify the use of the below two commands.

- `Export-WindowsDriver -Online -Destination D:\Drivers` - Use this command to export the computer's third-party drivers to destination folder.
- `Export-WindowsDriver -Path C:\Windows_Image -Destination D:\Drivers` - Use this command when you want to export drivers from the offline Windows image mounted to destination folder.

How to Delete a User Profile on Windows

The first time a user logs in on a Windows computer, a user profile is created and stored on the local hard disk. This profile contains all settings, from wallpaper to email details and network connections. If you've created multiple user profiles on your PC over time, this tutorial shows how to delete a user profile on Windows that is no longer needed.

1. Advanced System Properties

The easiest way to delete an unnecessary user profile is by accessing the Advanced System Properties on your Windows PC.

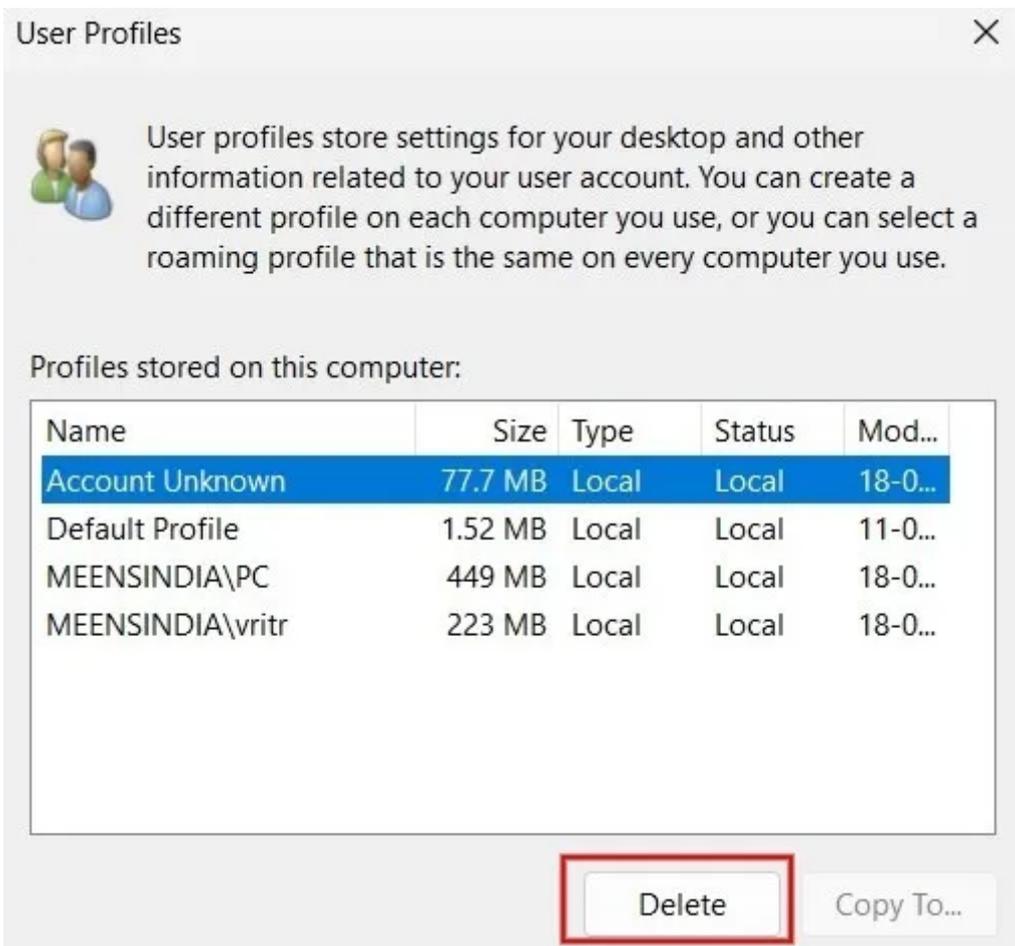
Press `win + R` on your keyboard to launch the Run dialog, type `systempropertiesadvanced` in the box, and click "OK."

Typing command in Run window.

In the "Advanced" tab, click the "Settings" button under "User Profiles."

Clicking "Settings" button under "User profiles" in System Properties.

From the list of user profiles stored on your Windows computer, select the one you don't need, and click the "Delete" button.



Click “Yes” in the confirmation dialog that pops up on your screen.

Clicking "Yes" in "Confirm Delete" pop-up.

The user profile has now been successfully deleted from your computer.

Tip: experiencing [issues with the Settings app on Windows?](#) Check out the most effective solutions for this problem.

2. Settings App

You can also delete a user profile and all of its associated data from your Windows PC by using the Settings app.

Click the Start button, and launch the Settings app.

Clicking Start menu and selecting the Settings app.

Click “Accounts” in the left pane, scroll down and click “Other users” in the right pane.

Clicking on "Other users" under Accounts in Settings.

You will see a list of other users accessing your computer. Click the arrow next to the user profile that you want to delete.

Selecting user profile for deletion in Windows Settings.

4. Click the “Remove” button.

Clicking "Remove" button next under specific user profile in Windows.

Click “Delete account and data,” and you’re done.

Pressing on "Delete account and data" button to complete process.

3. Registry Editor

If you prefer, you can also delete a user profile from Windows through the Registry Editor. Make sure you create a backup of the registry before you proceed, in case something goes wrong during the process.

Press `win + R` to launch the Run utility, then type `regedit` in the box, and click “OK.”

Typing "regedit" in Run dialog to launch Registry Editor.

Navigate to the following path on the Registry Editor:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList
```

Navigating to location in Registry Editor.

In the left pane, you’ll find multiple keys under the ProfileList folder. Click each subfolder one by one. In the right pane, find the path to the profile you wish to delete in the “Data” field for the “ProfileImagePath” key. In this example, we’re looking to remove the “vritr” user.

Right-click the ProfileImagePath key associated with the user profile you are looking to eliminate and select "Delete."

Deleting key associated with specific user profile in Registry Editor.

Click "Yes" in the confirmation dialog to remove the user profile from your Windows computer.

Pressing "Yes" on "Confirm Value Delete" window.

4. PowerShell

With PowerShell, you can do all kinds of things, including deleting user profiles, as shown in the steps below:

Press `win + x`, and click "Terminal(Admin)" to launch PowerShell.

Opening Terminal (Admin) app from WinX menu.

Type the below command, and press `Enter` to view the list of user profiles on your computer. Make a note of the user profile you want to remove from your PC.

```
Get-LocalUser
```

Typing command in PowerShell.

To delete a specific user profile, use the below command, followed by `Enter`. Replace `<userprofilename>` with the name of the user profile you want to delete from your Windows computer.

```
Remove-LocalUser -Name <userprofilename>
```

Since you won't see a success message for the above command, you can use the same command in step #2 to verify whether the user profile was deleted.

Inputting commands in PowerShell.

5. File Explorer

You can also delete a user profile and its data on a Windows PC via the File Explorer app, but make sure you are logged in as an administrator before you attempt to do so.

Press `win + E` to launch File Explorer and click "This PC" in the left pane.

Clicking "This PC" in File Explorer.

Double-click "Windows (C:)" under "Devices and drives."

Double-clicking (C:) to access the drive.

Click on the "Users" folder.

Selecting the "Users" folder in "C:\."

Select the name of the user profile you wish to delete, and press the `Del` key on your keyboard to delete the user profile from your Windows PC.

Selecting user profile for deletion via File Explorer.

FYI: are you frequently encountering problems with the File Explorer app? Check out the most effective solutions.

Cleaning Up Your Windows PC

While deleting inactive user profiles will not significantly free up storage on your "C:\" drive, learn additional methods to recover free space. If you've encountered the "User profile service failed the sign-in" error message, try to delete the user profile and create a new one.

How to Fix the “User Profile Service Failed the Sign-in” Error for Windows

Are you getting the “User Profile Service failed the sign-in” or “User profile cannot be loaded” error during Windows startup? This message is shown as soon you type your password in the Windows logon screen, and your default user profile fails to launch. In its place, a corrupt user profile takes over, changing your lock screen and desktop background. Because the proper profile wouldn't load, you're unable to log in to your system. If you're facing this frustrating issue, one of our solutions below will resolve it immediately.

Causes of “User Profile Service Failed the Sign-in” Error

There are many reasons you may encounter the “User profile failed the sign-in” error. Variations of this error include: “User profile cannot be loaded” and “User profile service failed the logon.” If you get any of these error messages, it means the default Windows user profile has been corrupted, which can be traced to one or more of the following factors:

- **Improper Windows update:** User Account Control (UAC) is designed to prevent unauthorized changes to your Windows device. Any irregular or unfinished updates or a crash can sometimes corrupt host files that are required for UAC to work properly.
- **Partition resizing error:** when resizing partitions from Disk Management, those parts can occasionally get corrupted, leading to an incorrect user profile.
- **Antivirus program:** if an [antivirus program](#) was scanning your system while you tried to log in, it can abort the correct user profile and launch an incorrect one.
- **Improper shutdown and restarts in guest logons:** if you did not exit smoothly from a local account created on your PC, you may encounter a user profile error on a subsequent login.

Tip: looking to [smoothly transfer user profile data to another in Windows](#)? This guide can help.

Solutions for User Profile Service Failed the Logon Error in Windows

The good thing is that none of the above causes are major concerns. You can easily repair the corrupted user profile using one of the troubleshooting solutions below.

You should first attempt the first few easy methods. Go for the more intricate and time-consuming solutions toward the end – only if the easy ones fail to resolve the problem.

1. Restart or Shut Down Windows From Its Lock Screen

Sometimes you only need a simple restart or shutdown from the lock screen window to fix the issue.

1. Whether you're inside an administrator or guest logon, use `win + L` to exit, and go to the Windows lock screen.
2. Navigate to the administrator profile (if a guest profile was previously used to log in), and click the lock screen shutdown/restart options. Make sure you log in as the administrator during the subsequent startup. We can help if you need to [reset your administrator password](#).

Logging out of local account on Windows.

Tip: did you know that you can [install Windows 11 even on an unsupported PC](#)? Learn how to get started.

2. Delete a Local User Account in Windows

If the user profile error is due to improper shutdowns and restarts during a guest logon, you may want to delete the unnecessary local account temporarily.

1. After signing in to your computer on an incorrect user profile, start the Windows Run command option using `Win + R`, and enter `netplwiz`.

Typing "netplwiz" command in Run window.

2. You will encounter the Advanced User Accounts Control Panel screen. Enter your administrator password to proceed. Sometimes there will be an error if the system refuses to accept your admin password. In that case, use the Windows Safe boot to perform these steps. (Described in the FAQ below.)

UAC prompt to type administrator password.

3. Click the "Remove" option next to your guest/local account. Even if you're currently logged in on your computer with the local account, the local profile here will be removed.

Removing local account via User Accounts window.

4. Use `Win + L` to exit the local account logon window.
5. Restart the computer, and make sure to use your regular Microsoft account to log back in.

3. Move NTUSER.Dat File to Default Username Folder

A user profile consists of personalized menu items for desktop, downloads, documents, music, videos, and saved links that are stored in a folder inside "C:/Users."

For each of these profiles, a .DAT file called NTUSER.DAT is created by Windows. It contains personalized user settings. Try moving the file associated with the buggy profile to a default username folder.

1. Go to the necessary local account inside "C:/Users," and press `Ctrl + X` to cut the NTUSER.DAT file for that account.

Locating NTUSER.DAT file under Users in "C:/."

2. Move the .DAT file into the "Default" username folder. You may not be able to see this folder. If so, change the "View -> Show" to "Hidden items" in File Explorer.

Accessing "View" menu in File Explorer to show hidden files.

3. Delete the local account folder, and restart the PC to see whether the proper user profile is loading.

Tip: did you know that you can perform a Windows Defender scan from Command Prompt? We demonstrate how in our guide.

4. Windows User Profile Repair Using Command Prompt

The evergreen Command Prompt can fix some of the hard disk-related issues that may have caused the user profile error problem.

1. Go to Start, and search for "Command Prompt." Select "Run as administrator" under the result.

Typing "command prompt" via the Start menu.

2. Perform a Deployment Image Servicing and Management Tool (DISM) scan, which helps repair the Windows image and may solve the user profile services error.

```
DISM.exe /Online /Cleanup-image /scanhealth
```

Running DISM scan via Command Prompt.

- Likewise, a System File Checker (SFC) command is the best way to repair corrupt Windows files, including user profile settings.

```
sfc /scannow
```

How To Fix User Profile Service Failed Error View Sfc

Tip: the WDF violation error can sometimes arise on your Windows PC. Learn what to do about it.

5. Use Windows Registry Editor in Safe Mode

The Windows Registry Editor (Regedit) is one of the best solutions to fix the “User profile service failed the sign-in” error. For this, the troubleshooting is achieved in Safe mode.

- In Windows 11, go to “Advanced startup” from the Search menu. For Windows 10, the corresponding option is “Change advanced startup options.”
- Click “Restart now” to initiate an advanced restart.

Clicking "Restart now" under Advanced startup in Recovery.

- Select “Troubleshoot” on the blue screen.

Clicking "Troubleshoot" in recovery environment.

- Go to “Advanced options -> Startup settings,” and initiate another restart of the device.

Clicking on "Startup Settings" via Advanced options.

- Following the restart, you will see a number of startup settings that can be accessed using the number keys (1-9) or function keys (F1-F9). Select the option to “Enable safe mode.”

Selecting "Enable Safe Mode" option in Startup Settings.

6. Once you sign in, you will enter Windows in Safe Mode. Very minimal options are visible in this mode.
7. Start the Windows Run command option using `Win + R`, and enter `regedit`. This task will be automatically created with administrator privileges.

Typing "regedit" in Run window.

8. Navigate to the following path in the Registry Editor:

```
Computer\HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\CurrentVersion\ProfileList
```

9. Check the last few entries under "ProfileList" to see whether there are any duplicates, e.g., the entries have similar names, but at least one will contain a .BAK file. This extension will appear at the end of one of the items in the "Name" column. For instance, if you open one of the ProfileList folders, you may see .BAK after any of the values listed. If you don't see anything with this extension, skip to the bottom of the section.

Checking ProfileList key in Registry Editor.

10. If you do have a value with the extension, and it's present in the last entry, rename the .BAK extension to just .BA. For any duplicate entry, rename it to something else, but keep the .BAK extension. Delete any surplus .BAK extensions, if present, for duplicate entries.
11. Delete the .BA extension in the entry that was just renamed.

ProfileList keys view in Registry Editor.

12. Right-click and modify the State key of the profile entry from where the .BAK was removed. Basically, we are switching the active default user profile through a minor registry tweak.

Modifying key in Registry Editor.

13. Change the hexadecimal DWORD value from a numerical value to "0." Click "OK" to save the settings.

Changing DWORD value via Registry Editor.

14. Restart the PC in normal mode.
15. The "User profile service failed the logon" error should be gone once you log in again.

No .BAK File?

If you don't have a .BAK file, see the workaround below.

1. Open File Explorer, and navigate to "C:\Users\Default\AppData\Local\Application Data"
2. If you see another folder inside this one named "Application Data," delete it, and restart your computer. If you don't have an Application Data folder at all, this fix will not apply.

FYI: wondering when you should use Command Prompt over Powershell and vice versa? We highlight the differences.

6. Restart the User Profile Service

Occasionally, third-party software and apps stop the User Profile service from running, resulting in this error. Restart it using Command Prompt:

1. Open Command Prompt, and run it as an administrator as shown above.
2. Enter the following command, and press `Enter`:

```
sc config ProfSvc start= auto
```

Running command in cmd.

3. At the next prompt, enter the following command, and press `Enter`:

```
sc start ProfSvc
```

Running a "sc start" command in cmd.

4. Restart your computer to fix the error.

5. If these commands won't run, try restarting your PC in Safe Mode, then performing the above.
6. If another app or program has changed the status of this service, it may continue to stop. To ensure it starts automatically with Windows, open a Run dialog window, and type `services.msc`.

Typing "services.msc" in Run window.

7. Scroll until you see "User Profile Service."
8. If it doesn't say "Automatic" under the "Startup Type" column, right-click "User Profile Service," and select "Properties."

Selecting "Properties" for "User Profile Service" in Services app.

9. Change "Startup Type" to "Automatic," and click "Apply" to save the changes. You may need to restart your PC to log in correctly.

Setting "Startup type" to "Automatic" in "User Profile Service" properties.

7. Reset Windows PC

If all the above options fail, use the "Reset" option to go back to a clean factory reset of your Windows operating system. You have to be connected online to achieve this cloud-based reset.

The [Windows 11 reset method](#) has been covered in detail, but the essential steps, which are common with Windows 10, too, are summarized below:

1. Go to "System -> Recovery -> Reset this PC," and click "Reset PC."
2. Choose "Keep the files" or "Remove everything." Choose the former option so that you don't need to save a backup. It's still a good idea to back up your files, just in case anything goes wrong.
3. Select the "Cloud download" option to reinstall your version of Windows. The download will take some time to finish.
4. Once you see the "Ready to reset the PC" screen, click "Next" to proceed.
5. Sit back and wait for the reset to finish, as the download will take some time. The entire procedure can consume anything from a few hours to an entire day, so we recommend the reset method only if the other methods don't solve the problem.

Tip: should you opt for a [cloud download or local reinstall](#) when performing a Windows reset? We explain the differences in our post.

Frequently Asked Questions

How do I fix the "User profile failed" error during sign-in for Windows 8/8.1 and Windows 7?

If you're using an older Windows version, such as 8.1/8/7, only a few of the above-described solutions will be able to address the user profile error. You can try a restart, use a DISM and SFC scans in Command Prompt, and move the NTUSER.DAT file to a default folder. The options to delete a local user account and enable a cloud-based reset will not work.

How do I solve the "We can't sign in to your account" error while restarting the User profile service?

Sometimes, while restarting the user profile service in guest/local account mode (Section 6), you're unable to sign in to your Administrator account. To solve the problem, boot into your Windows device in Safe Mode, and perform the same steps outlined in section 2. Then, repeat the steps from Section 6 to restart the User Profile Service.

Can other software or Windows updates interfere with the User Profile Service?

Sometimes it can. If you start getting this error the next time you sign in after installing something new, try uninstalling the new software to see whether that fixes the problem.

If your PC recently installed updates, try uninstalling them and updating again. Go to "Start," and search for "Windows updates." Select "Update history" and "Uninstall updates" under the list of recently installed updates. Select what you want to uninstall, and restart your PC.

Image credit: [Freepik](#). All screenshots by Crystal Crowder and Sayak Boral.

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Snap Layouts (screenshot)

Here is a cool feature that is new in Windows 11 that everyone now has on their desktop. It's for snap layouts. It's convenient because you can save the layout you want for certain classes or work and not have to redo it every time.

Snap Layouts

If you're the kind of person who likes their apps arranged on the desktop just so, you'll likely be interested in Snap Layouts. With it, you group your open windows into one of a half-dozen pre-built screen layouts, such as having two apps side by side, each taking up half the screen. Or you might have one app on the left and two stacked vertically on the right, or four apps in a grid. The hope is that you'll be able to find the layout that fits the way you work.

To use Snap Layouts, open the applications you want to be in it, then hover your mouse over an application's maximize icon on the upper right of the screen, located between the minimize and close icons. Choose the layout you want and which position you want the application to be in, and the app window snaps into that position. Then you can choose from your other open apps to fill in the rest of the spots in the layout.

[win11 cheat sheet 10 snap layout](#)

IDG

A Snap Layout in action. (Click image to enlarge it.)

Once all the places in a Snap Layout are filled, that app grouping is saved as a Snap Group that you can quickly return to later if you've opened other apps or minimized any of the app windows in the group. Hover your mouse over the taskbar icon of any of the applications in a Snap Group, and you'll see two small popups — one that's a thumbnail of what's open in the application itself, and another that shows the Snap Group. Choose the Snap Group icon, and you'll switch to the whole group in the layout you set up previously, rather than to the individual application.