

How to Fix Boot Loop Problems in Windows

After starting your Windows device, you may sometimes experience an infinite boot loop issue (also known as an 'infinite boot loop' error).

The boot logo seems to be stuck on a black screen with a small spinning circle. This is a pretty common problem in Windows, regardless of the old or new version.

If you can't get past the login screen, try one of the following solutions for Windows 10 and 11.

Use advanced troubleshooting options in Safe Mode

When you find your computer stuck in an infinite boot loop, chances are you won't be able to access your login screen. Here's how to regain access.

Step 1. First unplug the power, remove the battery and reinsert it.

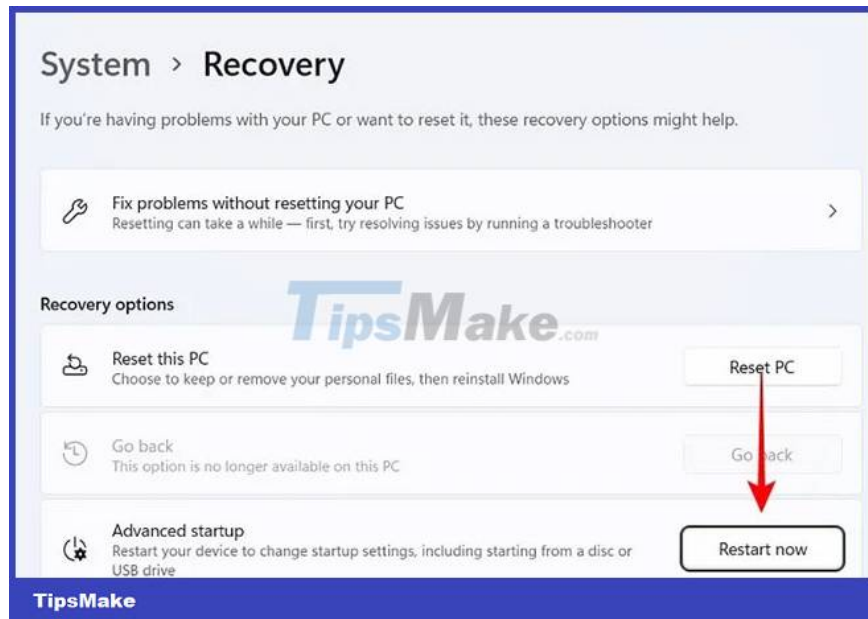
Step 2. Press the Power button for 30 seconds or more. This will remove any remaining charge in the circuit.

Step 3. Reconnect the power supply and reinsert the battery.

Step 4. Restart the computer using the Power button but use the start keys to boot your PC into Safe Mode. These keys vary by PC manufacturer.

Next, you can choose one of the following options:

1. Uninstall recent Windows update
2. System recovery
3. Reset PC

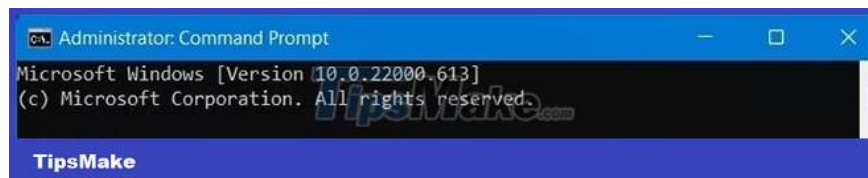


Fix driver validity issues with Sigverif

Faulty and incompatible Windows drivers are the main cause of slow startup and other startup problems. Microsoft uses the Signature Verification Tool (Sigverif) to manually determine if all of your computer's drivers have valid digital signatures. If not, you can fix those driver issues right away.

Step 1. Open the Command Prompt application with admin rights. Alternatively, you can also access the Command Prompt in Safe Mode from 'Advanced Troubleshooting'.

Step 2. Next to the '**C:/Windows/System32**' prompt , entering the command **sigverif.exe** will open a new pop-up window.



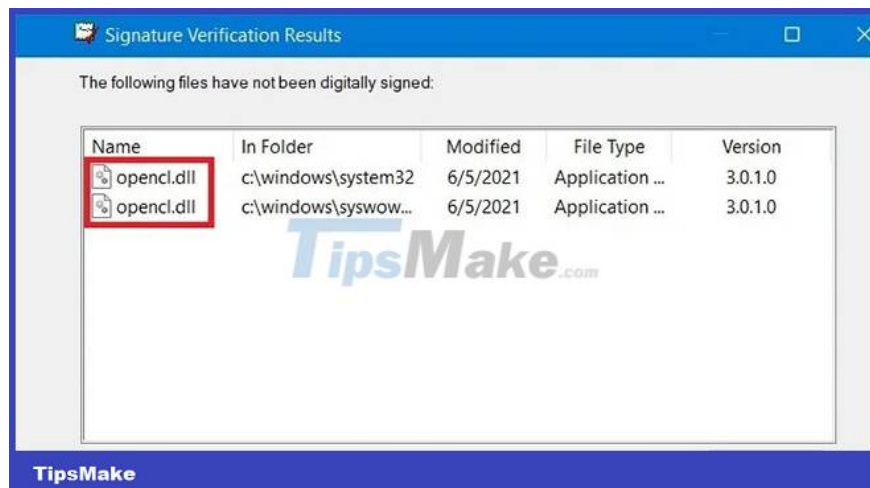
Step 3. Click **Start** for **File Signature Verification** in the next pop-up window. Avoid the **Advanced** menu.



Step 4. Wait for the "File Signature Verification" scan to complete. This will identify any system files or drivers that are not digitally signed.



Step 5. In the Signature Verification Results window, you can view all the unsigned system files.



Step 6. Go back to Command Prompt and type **takeown /f "Insert driver name"**. This will help the admin user to specify a valid digital signature for unsigned drivers.

Step 7. You will see "Success" status once the process is complete.

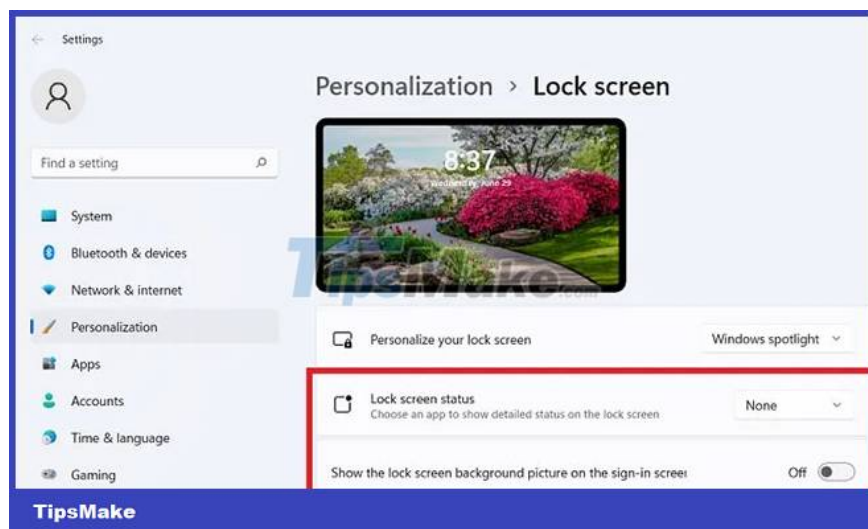
Step 8. To finish, run the System File Checker scan using **sfc /scannow** . This should fix any remaining driver integrity issues.

Remove lock screen images and screensavers during startup

When you start your Windows 11/10 PC, it will first go to the lock screen and screensaver. Sometimes it hangs there for a few minutes without loading the username and password input screen. If you want to boot faster to your login screen, you should remove these unnecessary components.

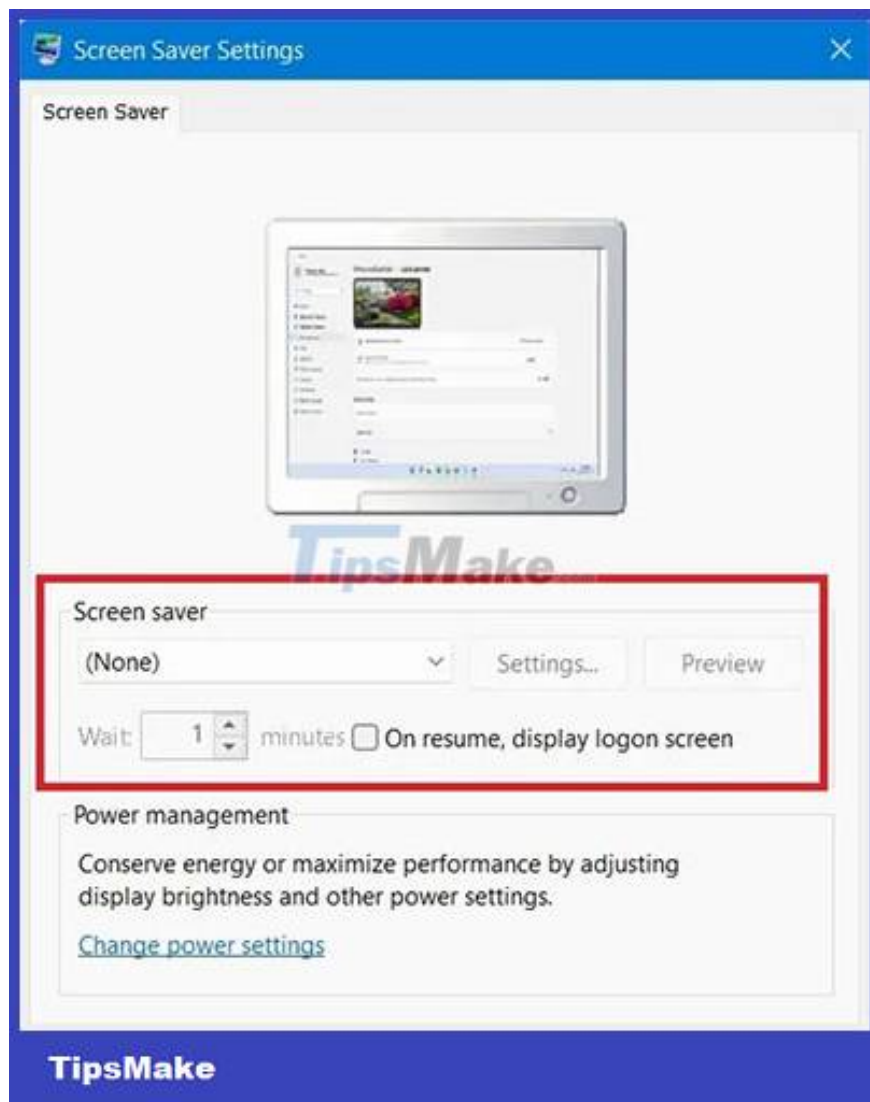
Step 1. From the Windows 11/10 search menu, select **Lock screen settings** . You can also access it from **Settings > Personalization** .

Step 2. Make sure that **the 'Show the lock screen background picture on the sign in screen'** option is turned off. Setting **'Lock screen status'** to **None** is also helpful. So there will be no Lock Screen apps on next boot.



Step 3. After deleting the lock screen background image, you will get a blank lock screen, which loads faster.

Step 4. You can also choose to disable screensavers from **Settings > Personalization** .



Step 5. If you turn off the screensaver, it won't be a factor in the next Windows startup, resulting in faster boot times.

Remove unwanted third-party applications from the startup process

If there are any unwanted programs running during startup, you can remove them so they don't cause any future interruptions. Some installed third-party application utilities tend to load during the next Windows startup. They are the ones that should be removed.

Step 1. Display the **Run** command menu by pressing the **Win + R** keys on the keyboard.

Step 2. Type regedit to open the Registry Editor.

Step 3. After opening Registry Editor, follow the path:

Computer/HKEY_LOCAL_MACHINE/SYSTEM/CurrentControlSet/Control/ServiceGroupOrder

Step 4. Double-clicking the **List** menu item will lead to a new pop-up screen.

Step 5. In the Edit Multi-String window , you can see a complete list of Windows processes and third-party applications that play a role in Windows startup. If you see any unwanted programs such as antivirus or other third-party applications, consider removing them.

Warning : Do not modify your existing Windows processes. The simple rule is that if it's a Microsoft built-in process, you should leave it as is. Just remove third-party apps.



Step 6. You should also remove as many startup applications as possible. Search for '**Startup apps**' from the search menu.

Uninstall Bloatware

There are a lot of clunky programs that can have a huge impact on the Windows startup process. It may be safer to uninstall them completely from your Windows PC.

Clean Windows installation

Performing a clean install of Windows is one of the ways recommended by Microsoft to get rid of the slow startup problem.

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