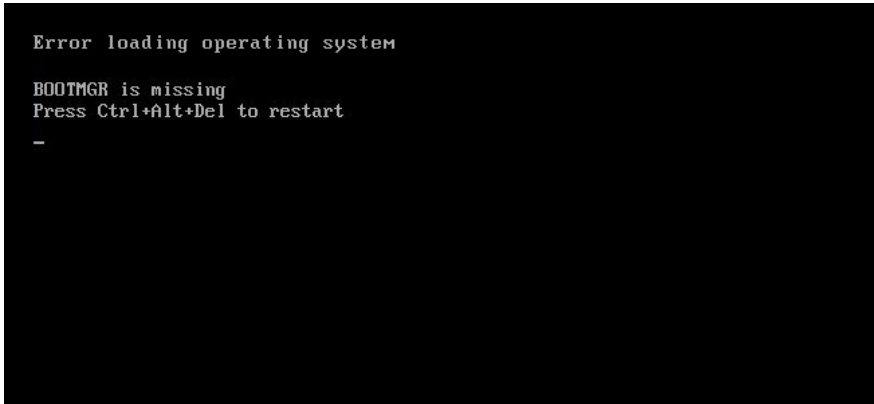


Instructions to fix Windows error does not boot

If you see your Windows computer displaying error messages before loading into Windows operating system, Boot Sector is likely to be corrupted, corrupted or missing files. In the following article, Network Administrator will introduce and guide you to some solutions as well as the steps to take to fix Windows failures to boot.

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A screenshot of a black command prompt window with white text. The text reads: "Error loading operating system", "BOOTMGR is missing", "Press Ctrl+Alt+Del to restart", and a single hyphen character on the next line.

```
Error loading operating system
BOOTMGR is missing
Press Ctrl+Alt+Del to restart
-
```

1. What is Boot Sector and Master Boot Record?

Boot sector is a small part located at the top of the hard drive partition, and is created every time you format the drive. Boot sector contains some code and data that support BIOS to roam Windows process control.

In addition, Boot sector also contains Master Boot Record (MBR). Master Boot Record (MBR) contains Disk Signature, Partition Table for drives and a small code section called Master Boot.

When a computer starts up, the process of opening the computer will be done by the BIOS. The BIOS then loads the Master Boot code into the computer's RAM and starts the boot process.

Master Boot code scans the Partition table, determines the activation partition, loads a copy of Boot Sector into your computer's RAM and starts the boot process. It is called the BootStrapping process, which allows the first bits of Windows code to start loading.

The boot sector may fail when other parts of the hard drive fail - such as missing files, corrupted file errors and even physical errors. The Windows boot process fails often after you see the BIOS information before Windows actually starts.

Some error messages you will see like:

1. Error loading operating system
2. Missing operating system
3. Reboot and select proper boot device
4. B?ng phân vùng sai
5. Bootmgr is missing
6. FATAL: No bootable medium found! System halted

If you see any of these errors, it means your Windows computer cannot boot and you will have to resort to the support of Windows Recovery Environment to fix the error.

Note:

If your computer boots, loads the Windows icon, but then fails, this is not a Windows error that cannot start. Instead, try applying a way to start your Windows computer in Safe Mode to fix the error. Implementing System Restore is a great idea to fix errors.

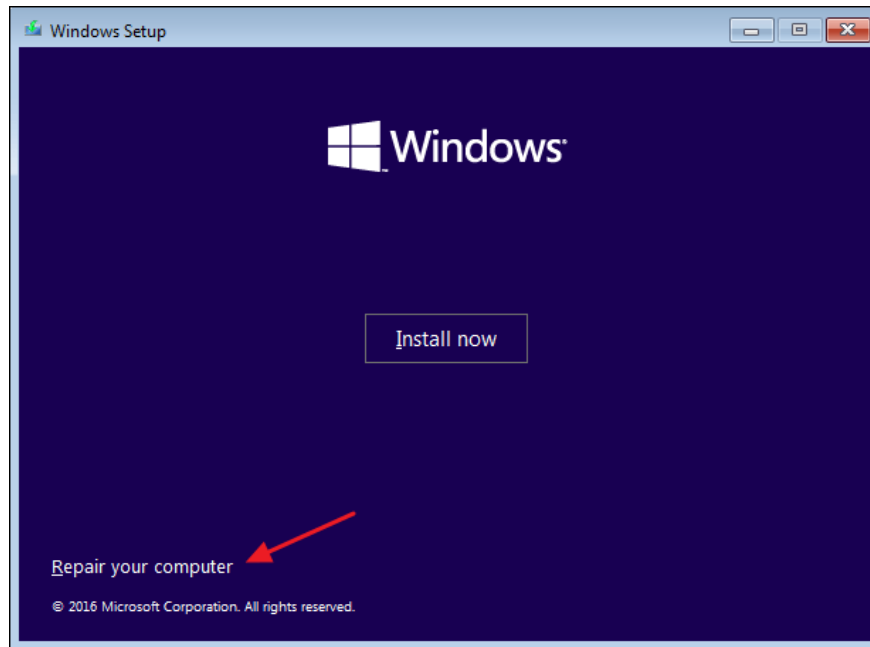
2. Boot from Windows Installation Media or Partition Recovery

The first step you must take is to boot the Windows computer into the Windows Recovery Environment.

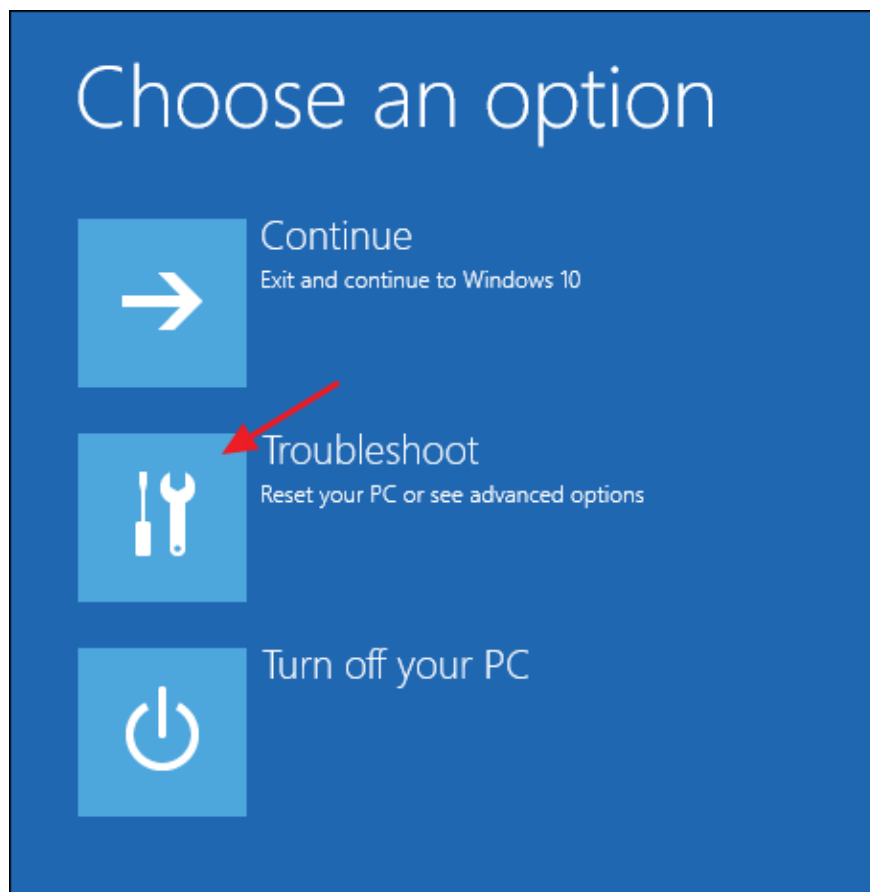
Maybe your computer has a special recovery partition that allows you to boot into the Windows Recovery Environment without using the drive.

If your computer does not have a recovery partition or you are unsure how to access the recovery partition, then you can start your computer using a DVD drive or USB drive containing the installer. set Windows.

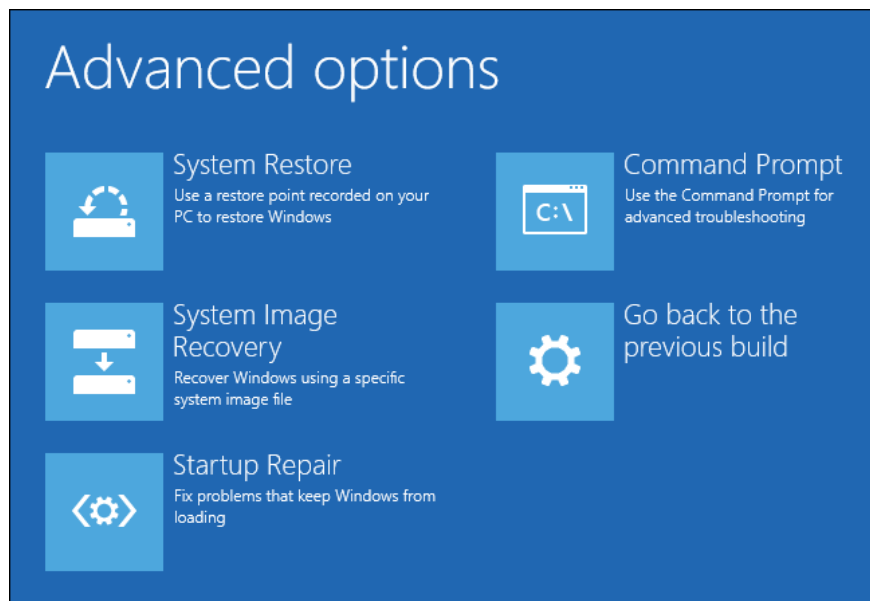
If you start your computer using the installation drive, click until you see the Windows Setup window, then click the **Repair your computer** link. If you start your computer from a recovery partition (Recovery Partition) or Repair Disc, the setup window will look a bit different.



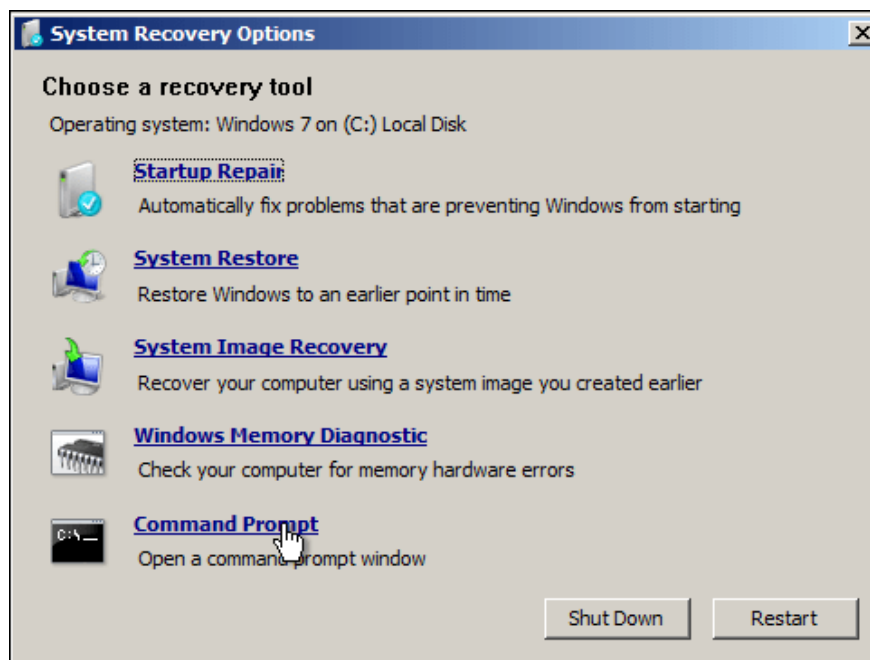
Windows will load Recovery Environment. On the first window click on the **Troubleshoot** option.



The **Advanced Options** window will now appear, where there are options you will have to use to fix the error.



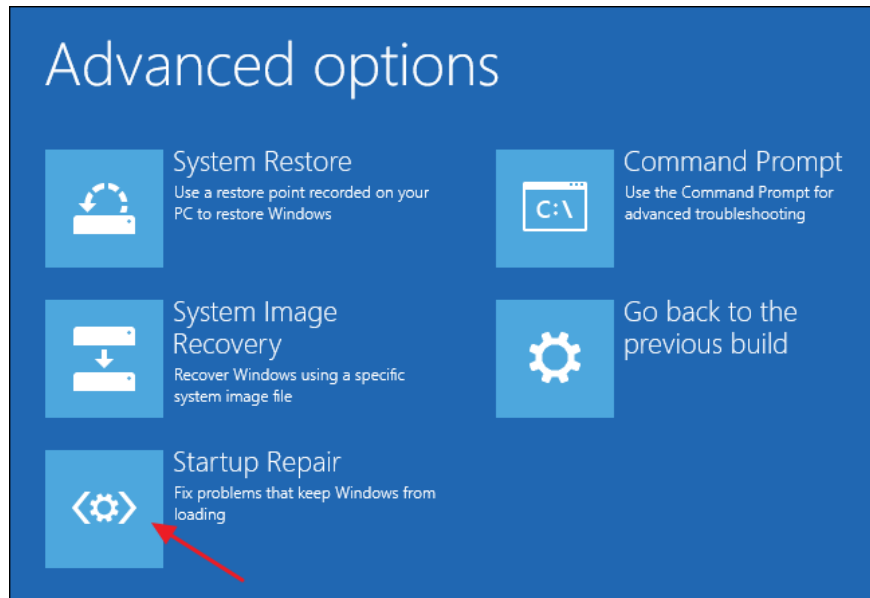
Note that if you're using Windows 7, the window interface will be a bit different, but the option names are the same.



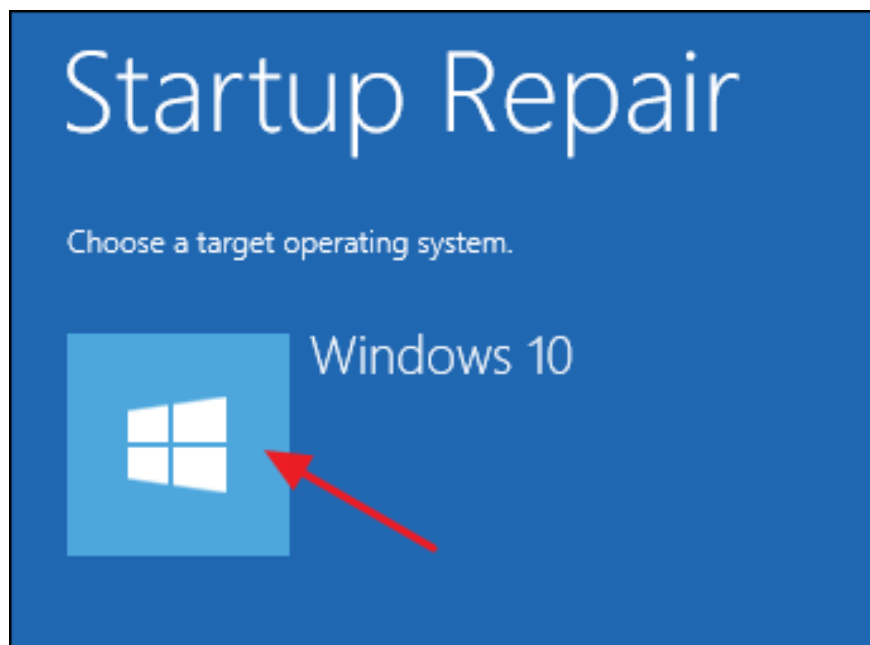
3. Automatic Repair Startup Repair

In most cases, you should set up Windows Automatic Repair Startup. This feature not only fixes errors related to Master Boot Record or recreates Boot Sector but it also scans and fixes common boot errors that often occur.

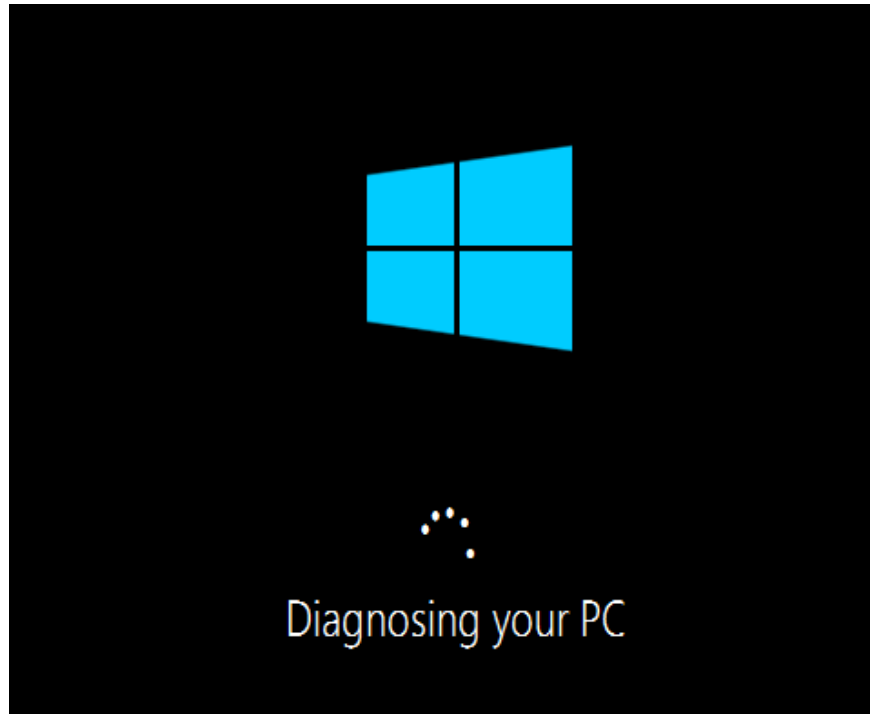
On the Advanced Options window, find and click **Startup Repair** .



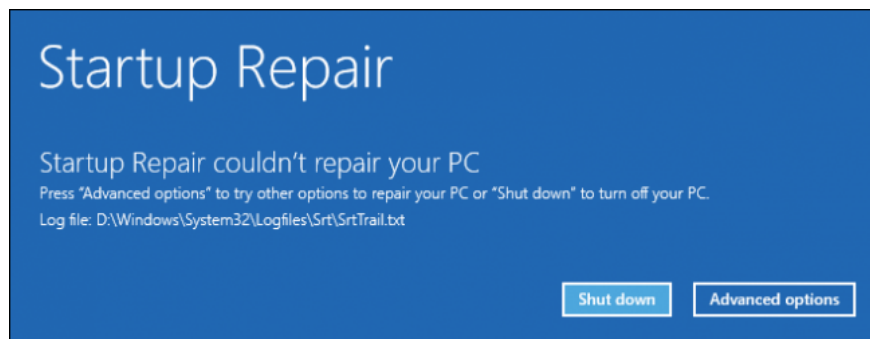
The next window will show all the versions of the operating system detected on your computer, even if only one operating system is installed. Your task is to click on the operating system you want to repair.



Windows will begin the process of checking the errors associated with the boot process and trying to fix these errors.



When the process is complete, Windows will notify you of the process of successfully repairing errors. Or you will be given the option to reboot your Windows computer or return to the Advanced Options window.

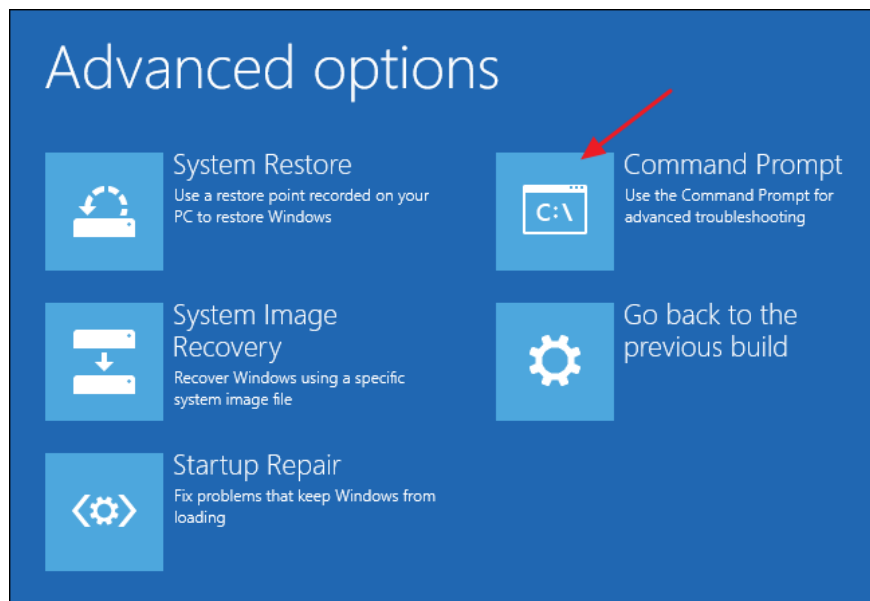


If Windows cannot automatically fix errors on your computer, you can try to repair the Master Boot Record or re-integrate Boot Sector manually on the Command Prompt.

4. Fix Master Boot Record from Command Prompt

If you want to fix manual errors or Automatic Repair errors, and you are sure that an error is caused by Master Boot Record or Boot Sector, then you can ask the Command Prompt to fix the problem quickly.

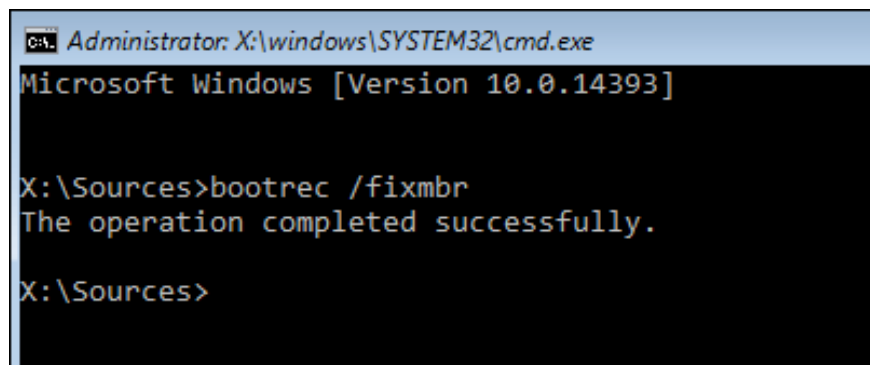
In the Advanced Options window, click **Command Prompt** .



On the Command Prompt window you will use the **bootrec** command and some useful options to fix the Windows boot error.

To restore the Master Boot Record, enter the following command into the Command Prompt window and press Enter. This command to write a Windows operating system is compatible with Master Boot Record (based on any version of Windows you are using) so that Boot Sector does not need to overwrite an existing Partition Table.

```
bootrec / fixmbr
```



To write a new Boot Sector for the entire system partition, enter the following command and press Enter:

```
bootrec / fixboot
```

```
Administrator: X:\windows\SYSTEM32\cmd.exe
Microsoft Windows [Version 10.0.14393]

X:\Sources>bootrec /fixboot
The operation completed successfully.

X:\Sources>
```

This command to override the current Partition Table and therefore in some cases it may cause an error if you set up to boot multiple operating systems. It does not overwrite any data on real partitions, but you may have to configure the multi-boot option after using the above command.

The above command is extremely useful in case you suspect that the Boot Sector is overwritten by installing another operating system or malware (malicious programs), or if you suspect Boot Sector has failed.

And of course, Bootrec tool also offers some other advanced options. You can enter the command below to see more options that the command supports:

```
bootrec /?
```

5. Steps to be taken after recovery

After successful recovery and your Windows computer can boot normally, you should follow some steps below.

The first step is to run the **Check Disk** utility to scan and check the integrity of the system files and hard drives. The cause of a Windows error that cannot be booted may be due to physical errors on your hard drive.

The second step is to use the **System File Checker** utility to scan and fix corrupted system files. And as mentioned the cause of the error may be due to the system files being corrupted. The System File Checker utility is a great solution for finding, detecting and fixing those errors.

Refer to some of the following articles:

1. Backspace key on Windows 10 can only delete 1 character, this is how to fix it
1. How to fix "An operating system not found" error on Windows 10 and Windows 8.1
1. 4 ways to fix USB errors without formatting: 'Windows was unable to complete the format'

Good luck!

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