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2 Ways to Enable AHCI After Windows 10 Installation [Partition Magic]

By [Vicky](#) | Follow 🐦 | Last Updated December 10, 2020

You may wonder about the reasons for enabling Advanced Host Controller Interface (AHCI) in Windows 10. In this post, [MiniTool](#) shows you the reasons and how to **enable AHCI after Win 10 installation**.

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What Is AHCI?

For many general users, AHCI is a strange term. But it is necessary to learn about this

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higher speed than the disk adopting IDE mode. In other words, the performance of the hard disk will be greatly reduced if not using this mode.

Further reading:

AHCI and IDE are two modes. Under one of the modes, a hard drive communicates with the computer system adopting a SATA storage controller.

Basically, IDE is for average computer uses and is the most compatible with other technology, especially older devices. But it lacks support for new technologies. While AHCI supports some important new features that IDE dies not, like hot-plugging hard drives, Furthermore, AHCI offers an improved performance over IDE.

The reason why the disk performance can be improved by enabling the AHCI mode is that using this mode can greatly minimize the travel of data seek (the read/write speed of a SATA hard drive can be increased by about 30%). So, you can effectively use your hard disk under multitasks after enabling AHCI.

How to Measure Disk Performance Easily [Step-By-Step Guide]

This article explains how to measure disk performance and how to interpret the disk performance test result.

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Note: Before carrying out the following steps, it is highly suggested you create a system restore point in case that something goes wrong.

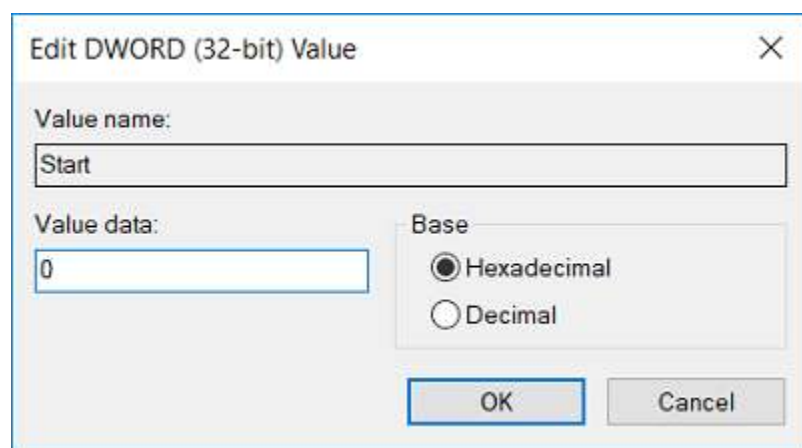# Enable AHCI After Win 10 Installation via Registry Editor

Step 1: Press **Windows** + **R** to call out the Run window. Once getting the window, please type **regedit** in the search zone and then hit the **OK** button to open Registry Editor.

Step 2: Navigate to the following path to find the folders below mand modify them one by one.

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services

1. iaStorV

In the right pane, double-click the **Start DWORD** to modify it. Then change the value of the DWORD to **0** and click the **OK** button to confirm.

3. storahci

Expand **storahci** and double-click the **Start DWORD** and set its value as **0**.

4. StartOverride included in storahci

Expand **StartOverride** and double-click the **0 DWORD** to modify its value to **0**.

Step 3: Boot your PC to BIOS or UEFI firmware settings.

Step 4: Enable AHCI in BIOS or UEFI firmware settings, save and exit this change, and restart your computer. On boot, Windows 1ill automatically install AHCI drivers.

Enable AHCI After Win 10 Installation via CMD

Step 1: Type **Command Prompt** in the Cortana's search box and run Command Prompt as administrator.

Step 2: Type the **bcdedit /set {current} safeboot minimal** command and then hit **Enter**.

Step 3: Boot your computer into BIOS and then enable AHCI mode.

Step 4: Save changes then exit BIOS. Reboot your computer.

Step 5: Enter Safe Mode and then reopen Command Prompt. Type the **bcdedit /deletevalue {current} safeboot** command and hit the **Enter** key.

Step 6: Restart your computer and Windows will automatically install AHCI drivers.

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18 Tips and Tricks Inside Windows 10 You Should Know

How do you make the best use of Windows 10? Here you will find the best tips and tricks for Windows 10.

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About The Author

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Position: Columnist

Vicky is a website editor who has been writing tech articles since she was graduated from university. Most of her articles talk about Windows PC and hard disk issues. Some of her articles also touch on YouTube usage and issues.

During her spare time, she likes to spend time reading, watching videos, and sitting on her Yoga mat to relax.

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