

# How to increase virtual RAM on Win 10

Not every computer is equipped with a large amount of RAM, because of that, the virtual RAM feature on Windows 10 was born. Virtual RAM on the computer is a useful solution to improve the RAM capacity of the computer and increase processing speed.

On a computer system, RAM capacity is very important because they help us multitask different applications during use, especially heavy graphics applications. However, not all computers are equipped with large amounts of RAM.

Because of that, the virtual RAM feature on Windows 10 was born. Virtual RAM on the computer is a useful solution to improve the RAM capacity of the computer and increase processing speed. In this article, Software Tips will guide you how to increase virtual RAM on Windows 10.

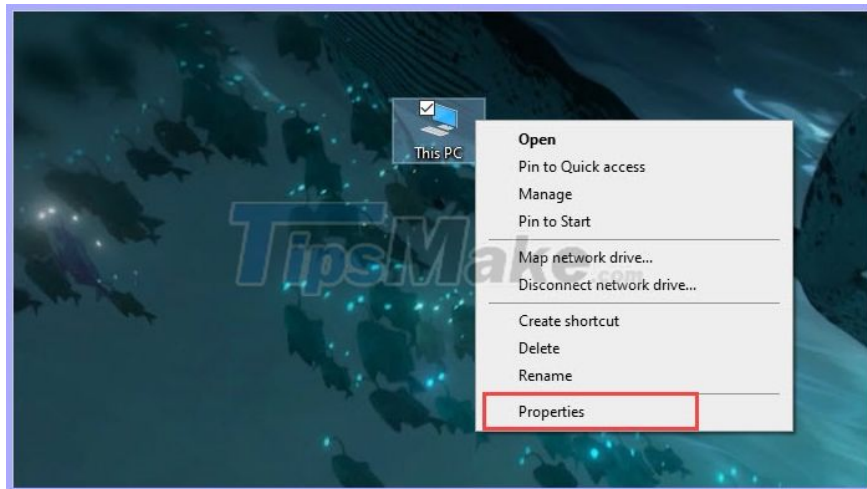
## 1. What is virtual RAM?

Virtual RAM with the full English name Virtual Memory, this is a feature that will use the computer hard drive capacity to simulate physical RAM (real RAM) on the computer to increase the total RAM capacity for applications. The operation is smoother and more stable.

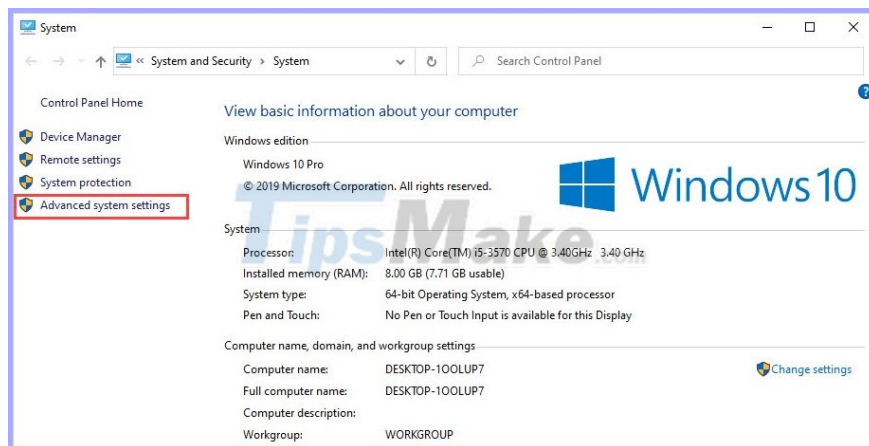
Increasing the amount of virtual RAM will increase the total amount of RAM on the computer and you also know how important the amount of RAM on the computer already! RAM capacity contributes greatly to multitasking, running parallel applications and games.

## 2. How to increase virtual RAM on Windows 10

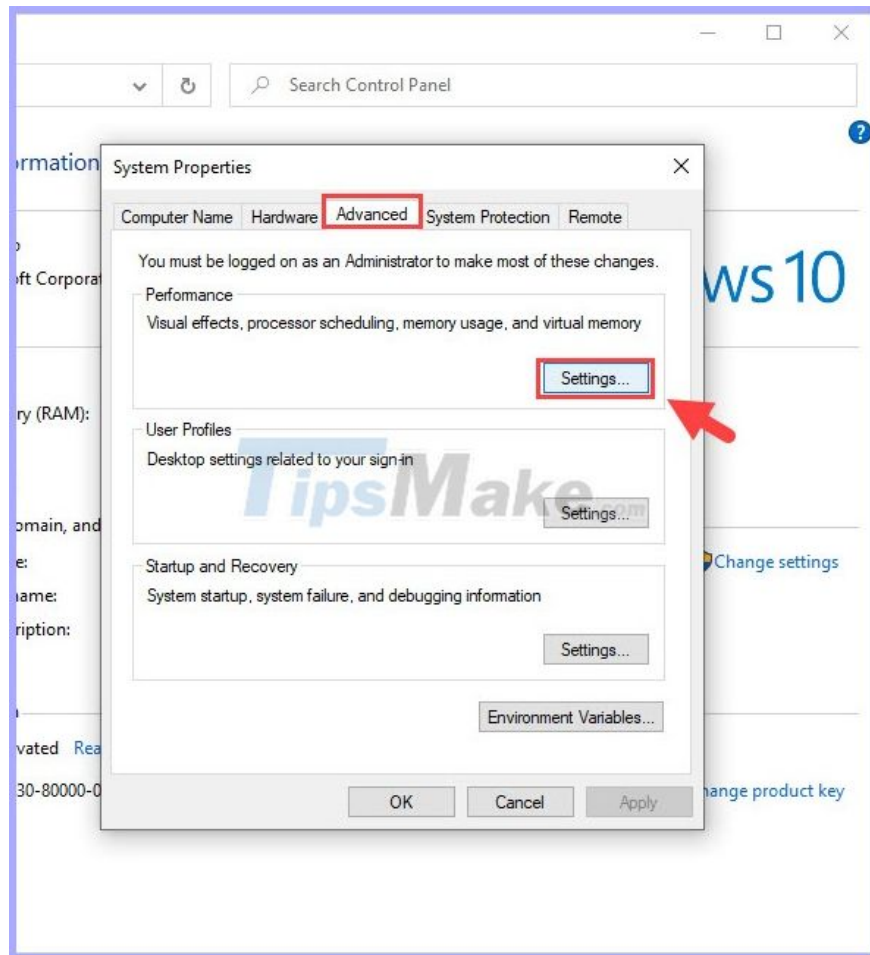
**Step 1:** First, **right-click on This PC** and select **Properties** .



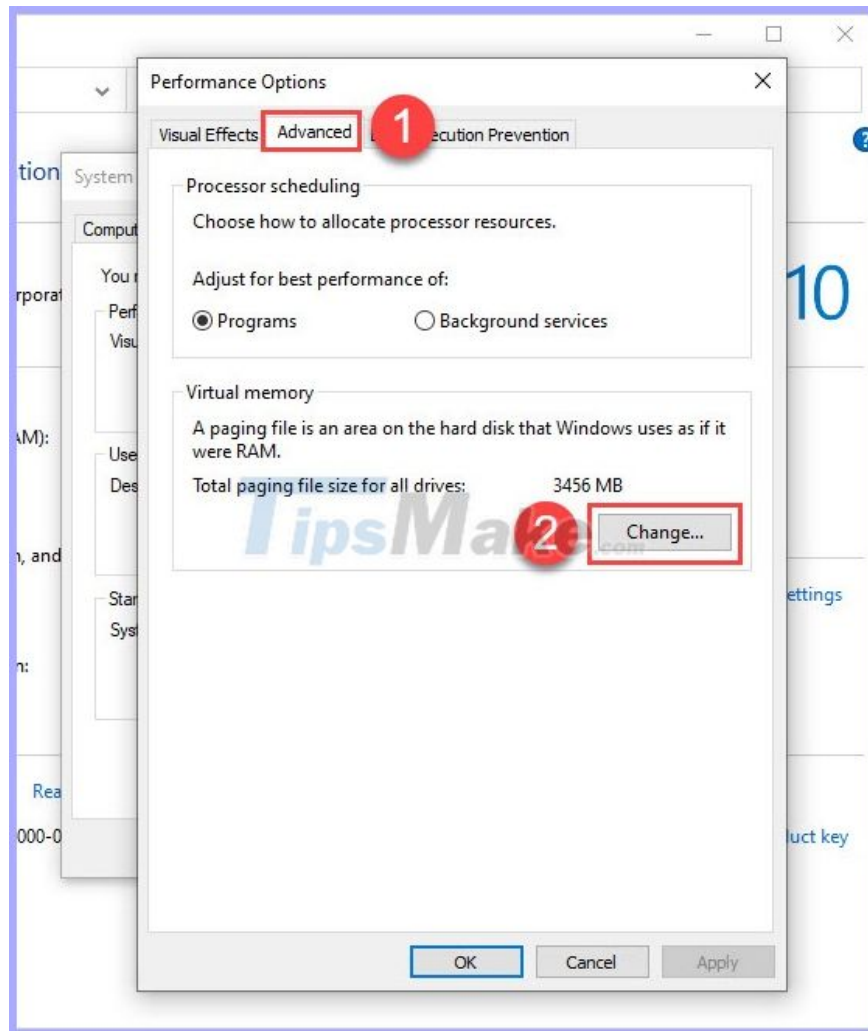
**Step 2:** Then, you select the tab **Advanced System Settings** .



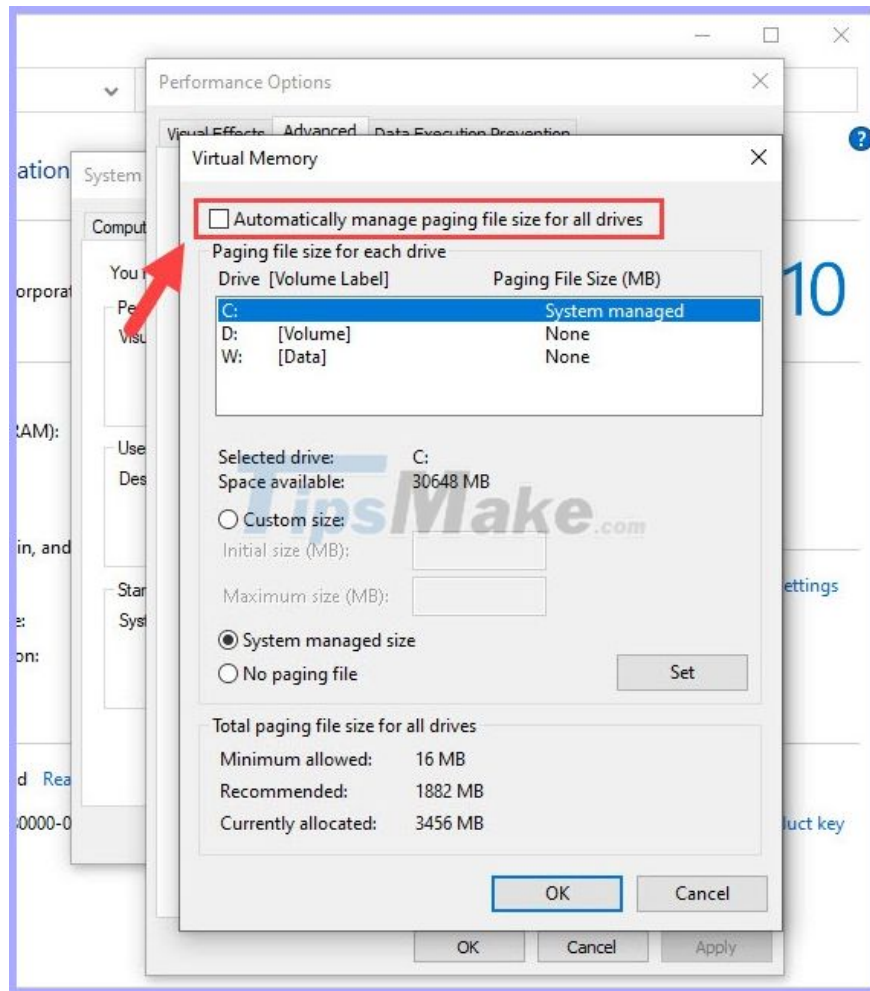
**Step 3:** Next, select **Advanced** and select the **Settings** section of the **Performance** section .



**Step 4:** At this time, you will see the **Performance Options** window appear. Here you select the **Advanced** tab and select **Change .** of the **Virtual Memory** section .



**Step 5:** By default on Windows 10 will enable automatic virtual RAM adjustment feature based on the machine configuration. So you have to uncheck **Automatically manage paging file size for all drives** to increase virtual RAM.



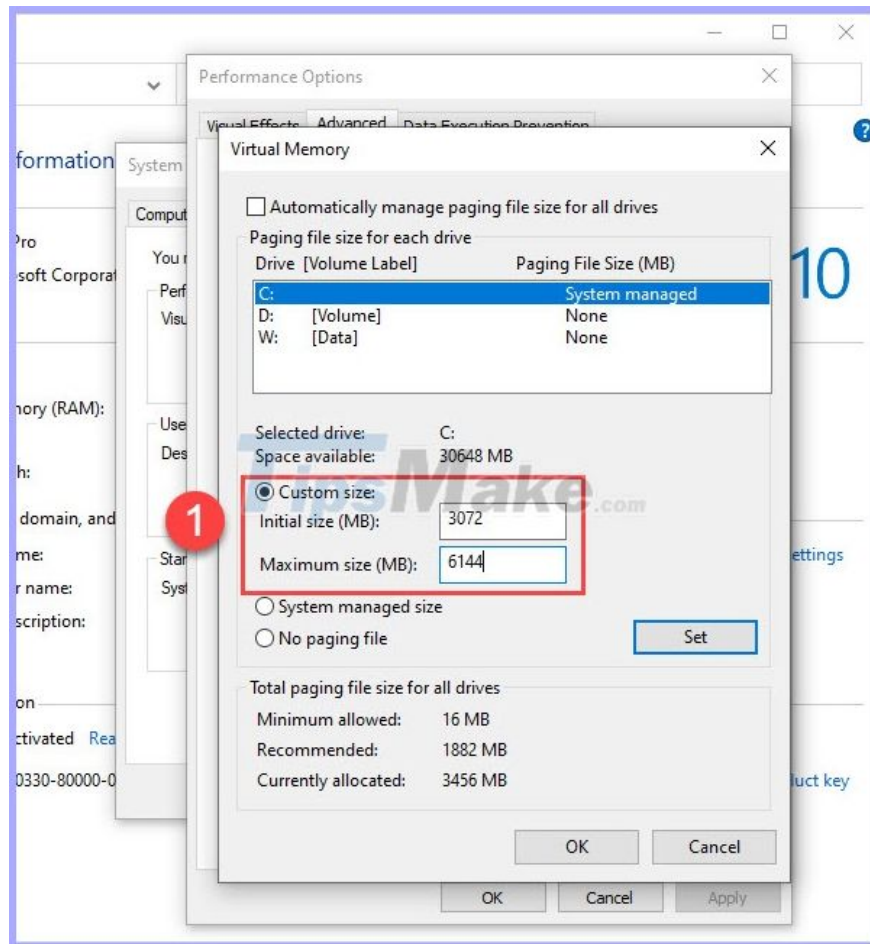
**Step 6:** Next, select Custom Size to set virtual RAM as you like. Now we will have 02 items including: Initial Size and Maximum Size. To set the standard, we use the following formula:

**32-bit Windows 10, less than 4GB RAM:**

1. **Initial Size (MB):** Get the actual RAM capacity (converted into MB) x 1.5
2. **Maximum Size (MB):** Get the actual RAM capacity (converted into MB) x3

**For example:** Your computer uses Windows 10 32-bit, 2GB RAM then

1. Initial Size = RAM Capacity (unit: GB) x 1024 (in MB) x 1.5 = 2 x 1024 x 1.5 = 3072 MB
2. Maximum Size = RAM Capacity (unit: GB) x 1024 (in MB) x 3 = 2 x 1024 x 3 = 6144 MB

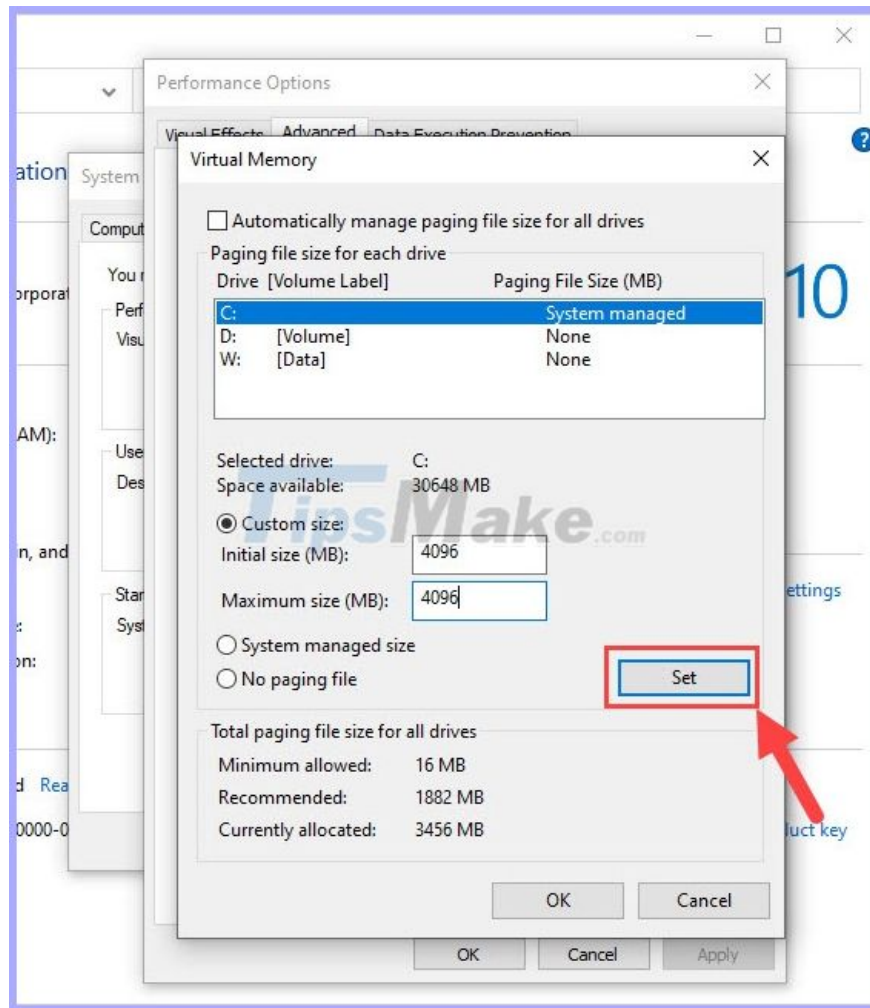


### ***64-bit Windows 10, 4GB RAM or higher:***

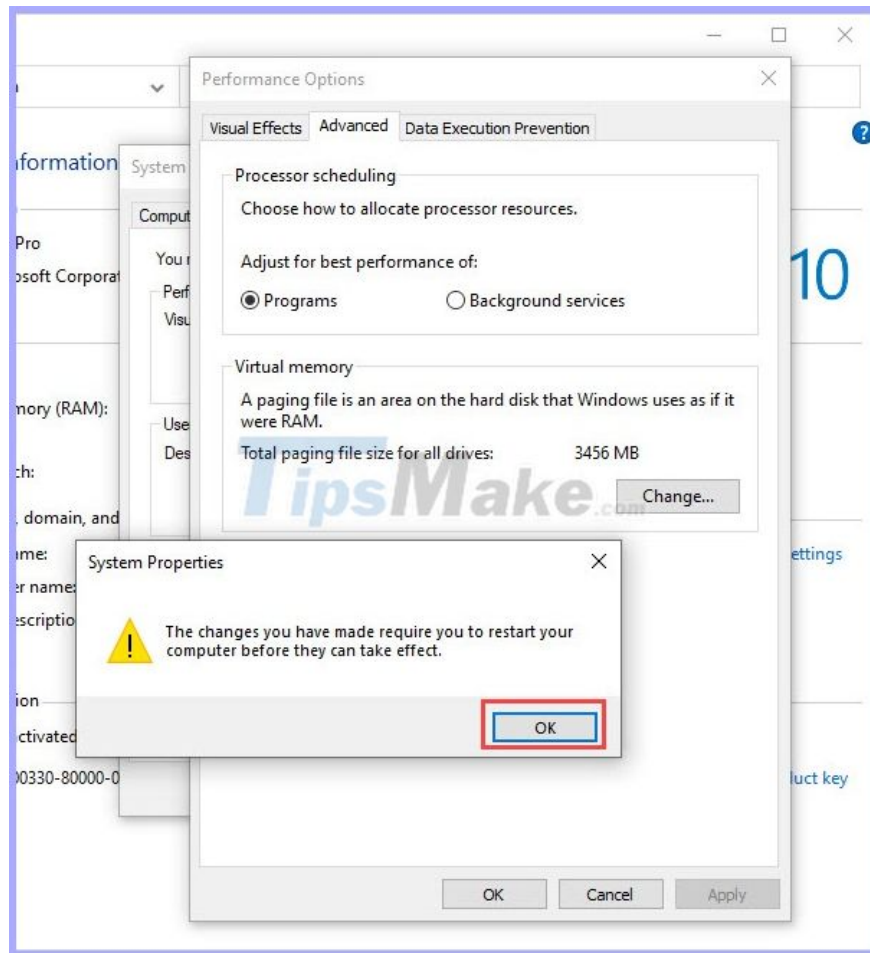
1. **Initial Size (MB):** Get the actual RAM capacity (converted into MB): 2
2. **Maximum Size (MB):** Get the actual RAM capacity (converted into MB): 2

***For example: Your*** computer uses Windows 10 64-bit, 8GB RAM capacity then

1. Initial Size = RAM Capacity (unit: GB) x 1024 (in MB): 2 = 8 x 1024: 2 = 4096 MB
2. Maximum Size = RAM Capacity (unit: GB) x 1024 (in MB): 2 = 8 x 1024: 2 = 4096 MB



After you set the amount of RAM, you choose **Set** to save these parameters. At this point, there will be a notification window that the computer will need to reboot to change the above parameters. Click **OK** to proceed Restart the computer automatically.



Good luck!

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