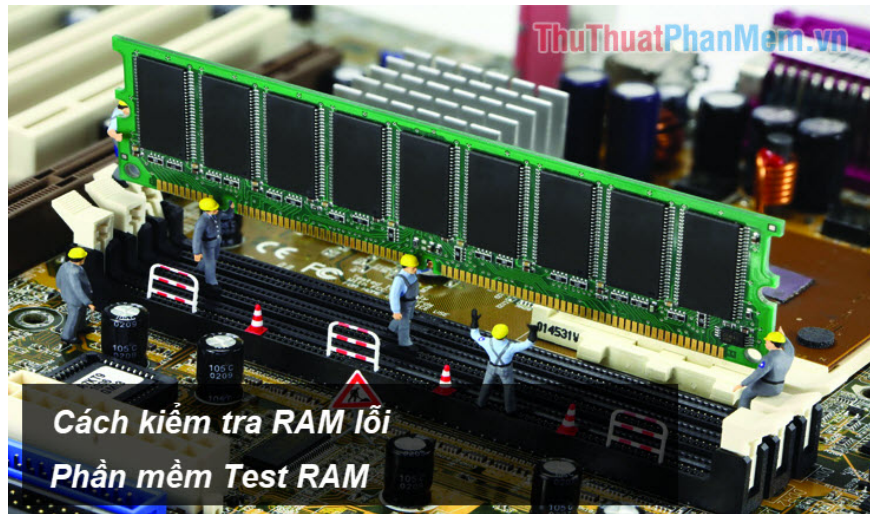


How to test RAM errors, RAM test software

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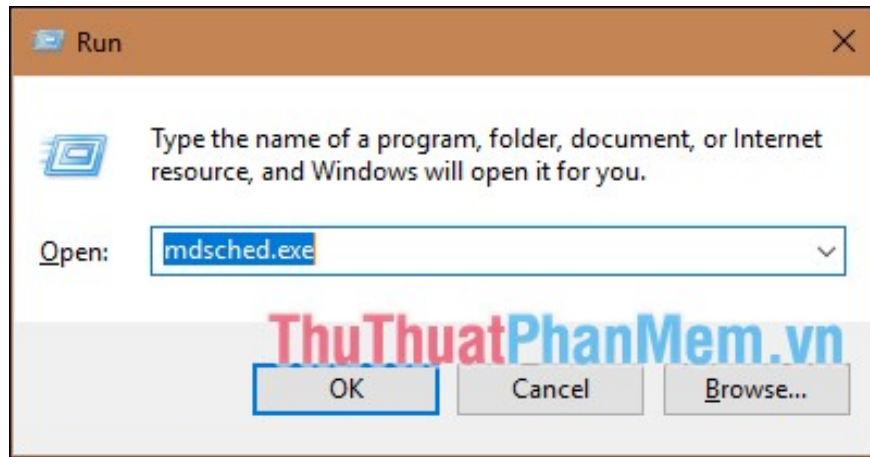
If you already use a computer, you probably know that RAM is an extremely important component of a computer. A computer works well when the RAM is always in a stable state, but after a long time of using, it is likely that the RAM will have an error that affects the performance of the computer or even You cannot start your computer. Therefore, it is necessary to monitor the health status of RAM regularly. In the following article of TipsMake.com will guide you some ways to check, test RAM for errors or not, please follow along.



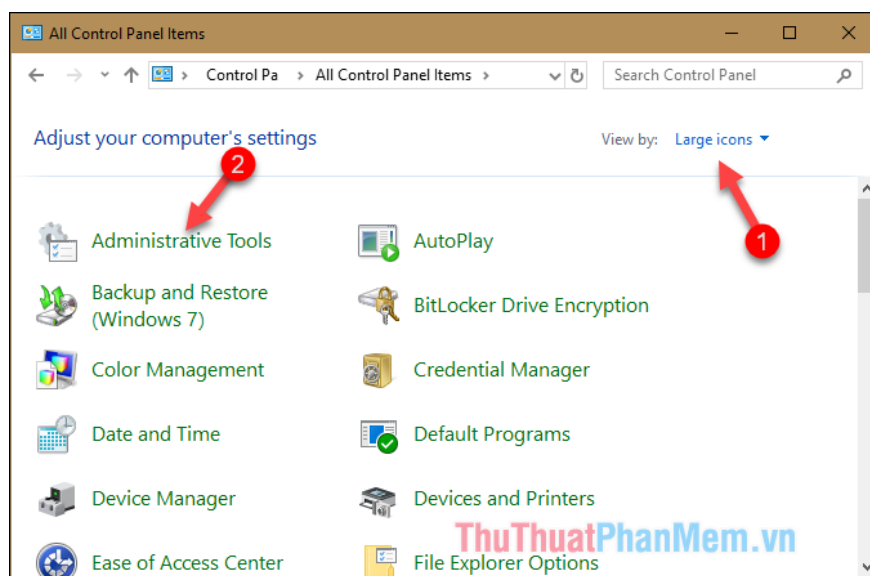
1. Use the Windows Memory Diagnostic feature

Windows Memory Diagnostic is a feature built into Windows that helps us check for RAM errors. To open this feature we have 2 ways:

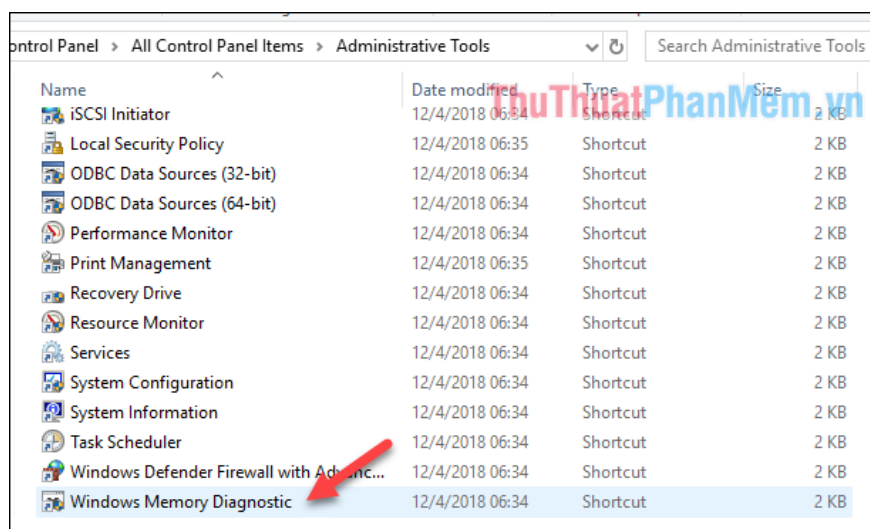
Method 1 : You press Windows key + R to open the Run dialog box, then enter the command *mdsched.exe* and press Enter



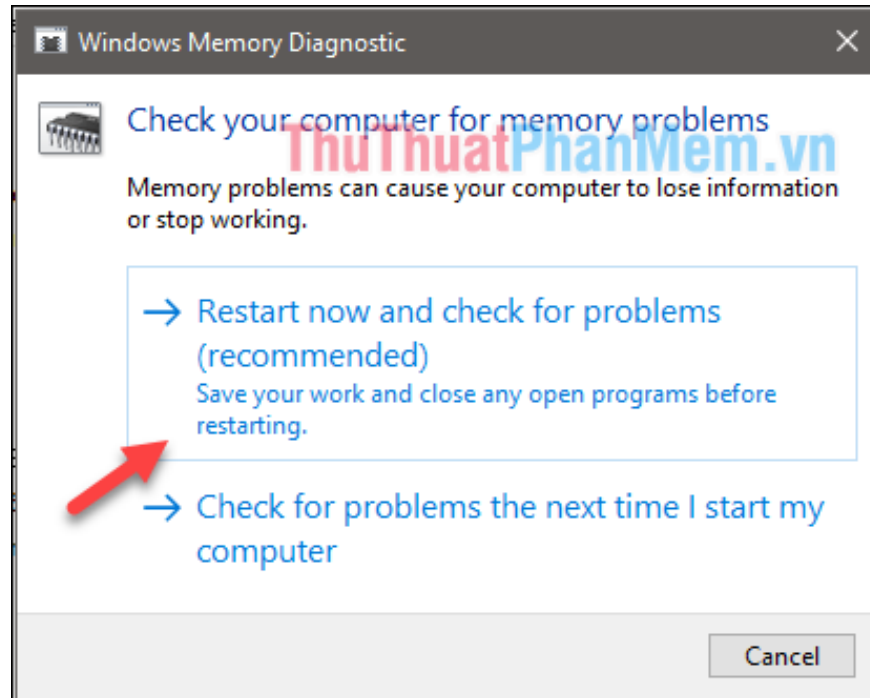
Method 2 : Open the Control Panel and select the **Administrative Tool** section



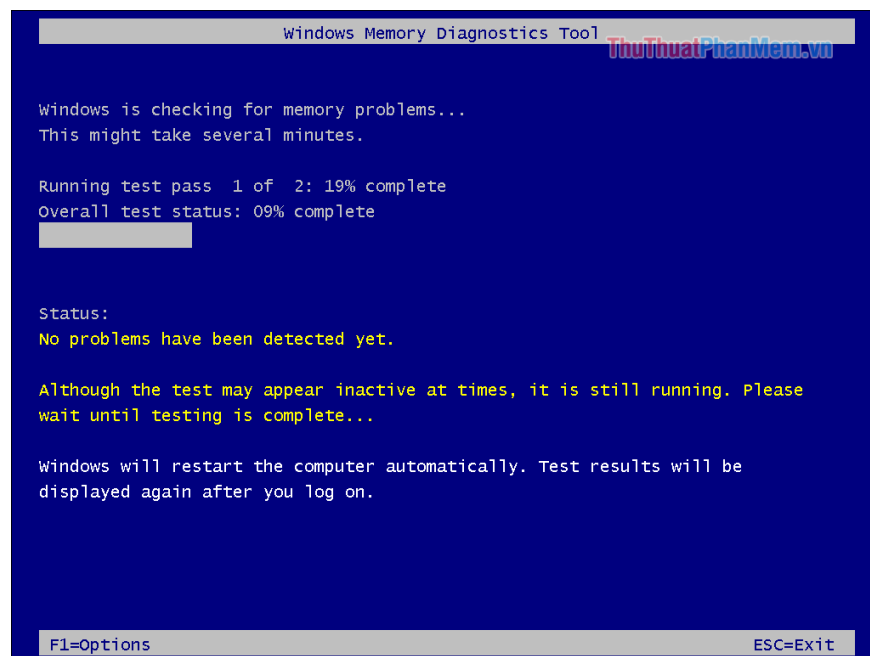
Next in the new window select the item **Windows Memory Diagnostic**



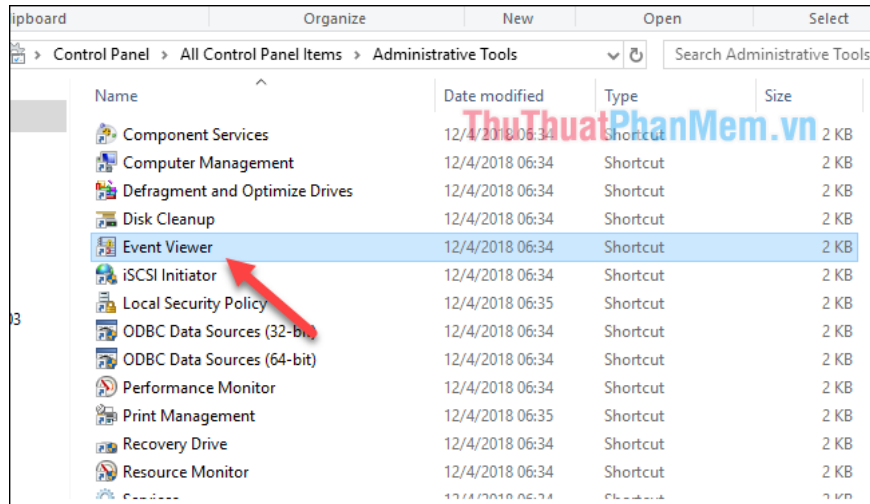
After opening **Windows Memory Diagnostic** in one of the two ways, a window appears, click **Restart now and check for problems (recommended)** to restart the computer and start the RAM test process. Note that before clicking this option, you should turn off all running applications.



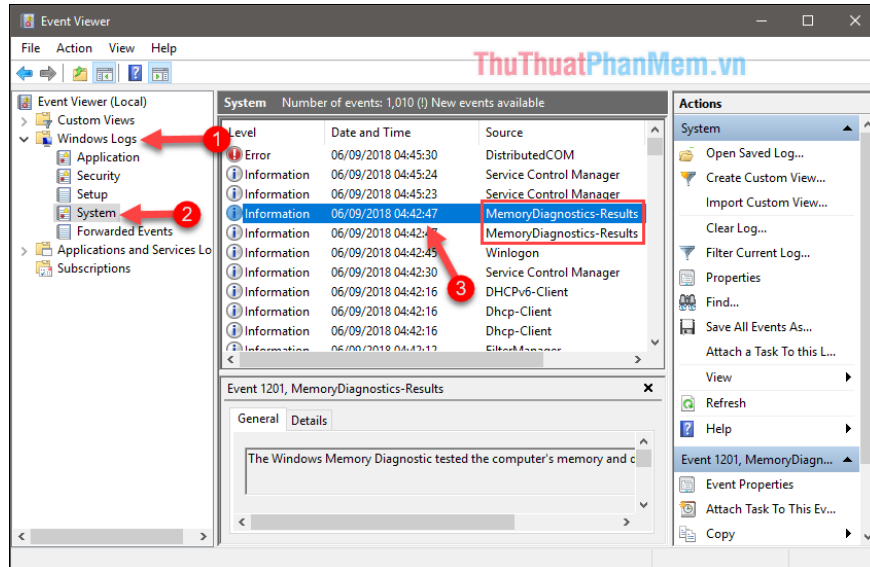
When restarting the computer will automatically enter the Test RAM screen, wait for a while for the test to complete. The computer will reboot again and go straight to windows.



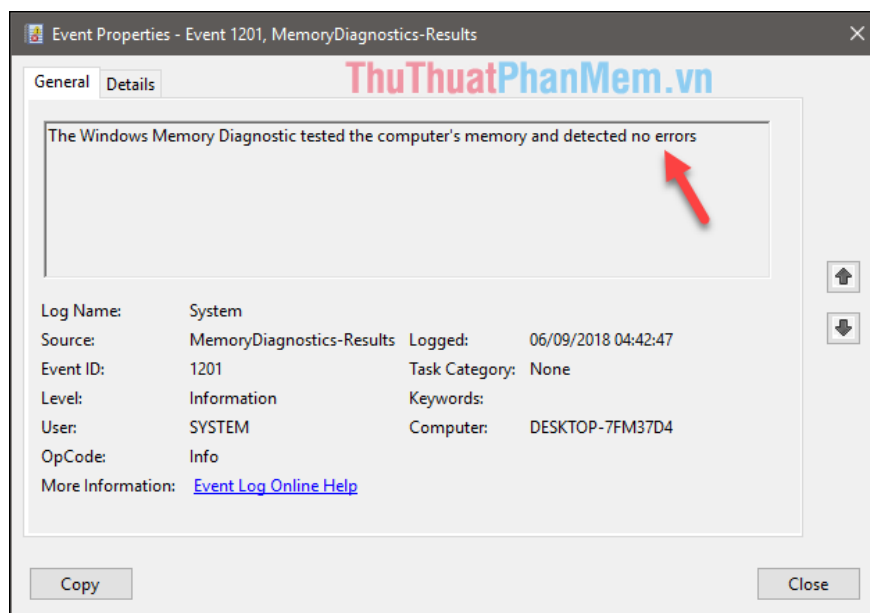
After booting into Windows you can see the results by opening Event Viewer, how to open it, do the same way above 2.



In the Event View window, select Windows logs -> System, then in the event list you find the event named Source as **MemoryDiagnostics-Results** and double click on it to open.



In the results section you see no errors ie your Ram has no errors.



2. Use the MemTest86 software to check the RAM

This method applies in case you cannot access Windows, the MemTest86 software does not run in the Windows environment, but you must create a USB boot to bring MemTest86 to USB to use.

Download link you can download from the homepage of Memtest86 on:

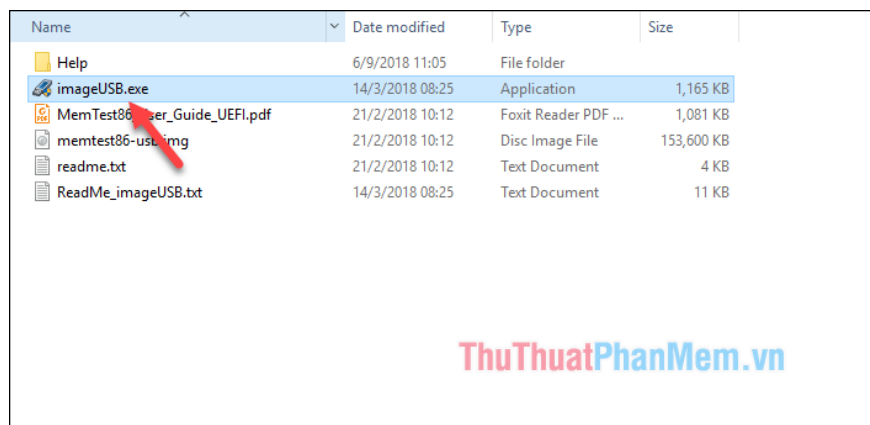
<https://www.memtest86.com/download.htm>

This software has 2 versions that are paid and free but you just need to download the free version is enough.

After downloading, we unzip and start creating a USB boot MemTest86.

You need to prepare a large capacity USB, but make sure that the USB does not have any important data because we will have to Format that USB.

Plug that USB drive into the computer and run the imageUSB.exe file we extracted in the previous step.



The window to create the USB boot appears, you take turns from Step 1 to Step 4.

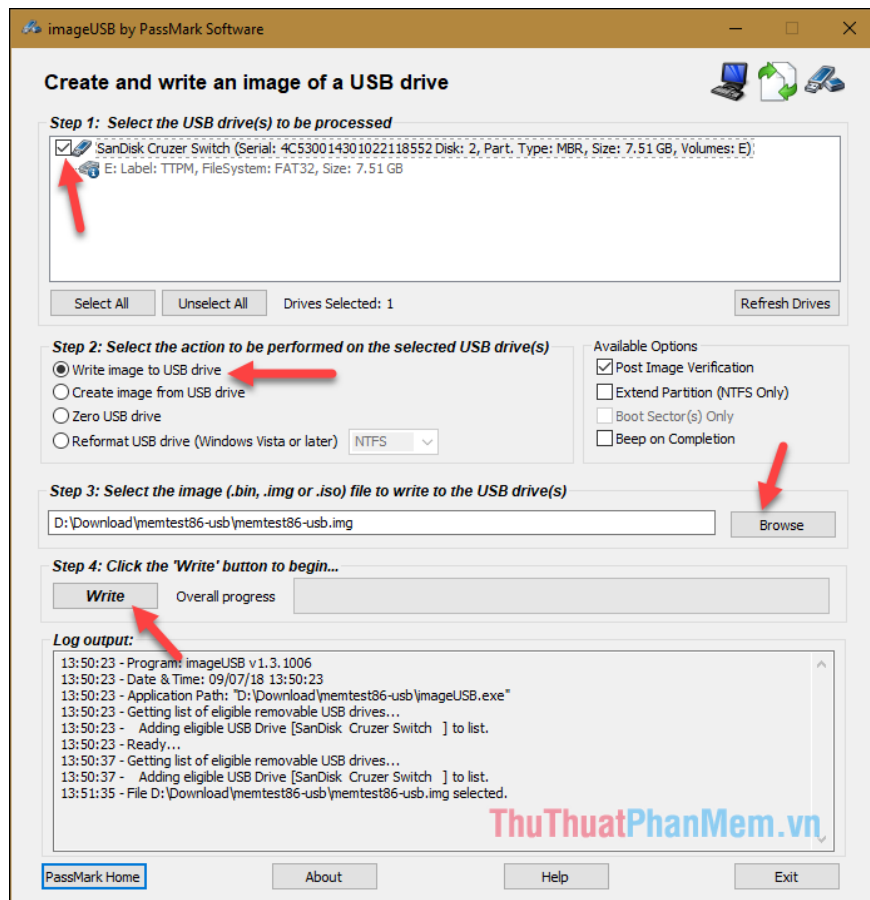
Step 1 you choose USB connected to the computer.

Step 2 you choose the mode of writing the image file to USB

Step 3 choose memtest86-usb.img file, this file is in the same file you extracted, usually the software will choose for you.

Step 4 Click Write to start creating USB boot, if a message appears, click Yes.

Wait a few minutes for the USB creation process to complete.



After creating the USB boot, plug the USB boot into the computer that needs to check RAM, boot the computer that boot into the USB that you connected.

Once the computer has booted into USB boot you will see the interface as shown below, enter the number 1 and press Enter to enter the Test Ram interface.

```
-----
Memtest86 U4.3 Diagnostic
-----

Available Versions:
-----
1) U4.3 (Default)
2) U4.3 (One Pass enabled)

Troubleshooting Options:
-----
3) U4.3 (Boot Trace Enabled)
4) U4.3 (Start only one CPU)
5) U4.3 (Serial console enabled)
boot: _

ThuThuatPhanMem.vn
```

And here is the RAM test interface, the software will automatically run and scan for RAM errors. You need to wait for the software to run out of 7 passes to be able to check the exact error. If there is an error, it will appear in the Errors section. The error checking time can take quite a long time, it can take several hours depending on the amount of RAM, so please be patient.

```
Memtest86 v4.3.7 Intel Pentium(R) G4600 @ 3.60GHz
CPU Clk : 3600 MHz ; Pass 3% #
L1 Cache: 64K 185560 MB/s ; Test 25% #####
L2 Cache: 256K 95739 MB/s ; Test #4 [Moving inversions, 8 bit pattern]
L3 Cache: 3072K 181432 MB/s ; Testing: 1024K - 2048M 2047M of 2048M
Memory : 2048M 716002 MB/s ; Pattern: 7f7f7f7f

-----
CPU: 0123 ; CPUs_Found: 4 CPU_Mask: ffffffff
State: WWW- ; CPUs_Started: 4 CPUs_Active: 1

-----
Time 0:10:14 Iterations: 3 AdrsMode:64Bit Pass: 1 Errors: 0

-----
Pass complete, no errors, press Esc to exit

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(ESC)exit (c)configuration (Space)scroll_lock (Enter)scroll_unlock
```

Above is a tutorial on how to check for RAM errors, hopefully through this article you will know the RAM status of your computer is still good or not to avoid the error. Good luck!

You finished reading the article "**How to test RAM errors, RAM test software**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.