

≡ MENU

#### Q

# Top 6 Ways to Fix Incompatible Drivers Error for Memory Integrity in Windows 11

December 11, 2022 by Parth Shah

#### Core isolation

Security features available on your device that use virtualization-based security.

This change requires you to restart your device.

#### Memory integrity

O On

Prevents attacks from inserting malicious code into high-security processes.

Memory integrity is off. Your device may be vulnerable. Dismiss

Microsoft has improved the default Windows Defender by leaps and bounds with Windows 10 update. It's the default and preferred choice for many to keep their computer virus-free. The system has a 'Memory Integrity' security feature to protect critical processes and attacks at the kernel levels. However, the function seems to be disabled for many due to incompatible drivers. If you are one of the affected ones, read the troubleshooting steps to fix the problem.

Memory integrity prevents attacks from inserting malicious code into highsecurity processes. Once you resolve incompatibilities with drivers, the system will enable the function for your PC.

### 1. Enable Memory Integrity via Group Policy Editor

Group Policy Editor menu is available only to Windows 11 Pro users. You can use it to enable Memory integrity on your PC. Follow the steps below.

Step 1: Press the Windows key and search for Group Policy Editor.

**Step 2:** Head to Computer Configuration > Administrative Templates.



#### Step 3: Select the System folder.



Step 4: Open 'Device Guard'.

📔 System	
Device Guard	Setting
	Access-Denied Assistance
	App-V
	Audit Process Creation
	Credentials Delegation
	Device Guard
	Device Health Attestation Service
	Device Installation
	🚞 Disk NV Cache
	🛅 Disk Quotas
	🛅 Display
	Distributed COM
	Criver Installation
	🧮 Early Launch Antimalware
	Enhanced Storage Access

Step 5: Select 'Turn On Virtualization Based Security'.



**Step 6:** Select the radio button beside 'Enabled' and hit Apply. Select Ok, and you are good to go.

Turn On Virtualization Based Security Previous Setting Next Setting				
Not Configured     Enabled	Comment:			4
O Disabled				w
	Supported on:	At least Windo	ws Server 2016, Windows 10	▲ ▼
Options:			Help:	
Select Platform Securi	ty Level:		Specifies whether Virtualization Based Security is enabled.	]
Virtualization Based Protection of Code Integrity:			<ul> <li>Virtualization Based Security uses the Windows Hypervisor to provide support for security services. Virtualization Based Security requires Secure Boot, and can optionally be enabled with the use of DMA Protections. DMA protections require hardware support and will only be enabled on correctly configured devices.</li> <li>Virtualization Based Protection of Code Integrity</li> <li>This setting enables virtualization based protection of Kernel Mode Code Integrity. When this is enabled, kernel mode memory</li> </ul>	
Secure Launch Configuration:			protections are enforced and the Code Integrity validation path is protected by the Virtualization Based Security feature.	
Kernel-mode Hardwar	re-enforced Stack	Protection:	Code Integrity remotely if it vas previously turned on with the "Enabled without lock" optice. The "Enabled with UEFI lock and ion ensures that Virtualization	
			OK Cancel Apply	

Restart your PC.

### 2. Enable Optional Features on Windows 11

If 'Virtual Machine Platform' and 'Windows Hypervisor Platform' features are disabled on your PC, it may affect the memory integrity feature. Follow the steps below.

**Step 1:** Press Windows + I keys to open the Windows Settings menu.

Step 2: Select 'Apps' from the left sidebar.



Apps	←	¢	Windows Fax and Scan	
Account	S	~		
🗊 Time &	anguage	3	Windows Media Player Legacy	
😳 Gaming		~		
🕇 Accessib	ility	{ع	Windows PowerShell ISE	
🔍 Privacy 8	& security	~		
🕝 Window	dows Update		WordPad	
		Related	settings	
			More Windows features	

Step 4: Scroll down to more Windows features.

**Step 5:** Enable Virtual Machine Platform and Windows Hypervisor Platform options and hit OK.



Once Windows applys the changes, reboot the PC and enable Memory integrity from the Windows Security menu.

### 3. Perform a Clean Boot

If the memory integrity function is still not enabled on your computer, it's time to perform a clean boot. Here, you basically turn off all services except the essential Microsoft services. It's quite easy and straightforward to boot your PC into a clean state.

**Step 1:** Press Windows + R keys to open the Run menu.



💷 Run	×	<
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
<u>O</u> pen:	msconfig ~	]
	OK Cancel <u>B</u> rowse	]

Step 3: Select 'Selective startup' and click 'Load system services'.

System Configuration				×
General Boot Services Startup Tools				
Startup selection Normal startup Load all device drivers and services				
<ul> <li>Diagnostic startup</li> <li>Load basic devices and services only</li> </ul>				
Selective startup				
<ul> <li>Load startup items</li> <li>Use original boot configuration</li> </ul>				
	ОК	Cancel	Apply	Help

**Step 4:** Move to the Services tab and select 'Hide all Microsoft services'. Click 'Disable all'.

Service	Manufacturer	Status	Date Disabled
Adobe Acrobat Update Service	Adobe Inc.	Running	
AdobeUpdateService	Adobe Inc.	Running	
Adobe Genuine Monitor Service	Adobe Systems, Incorpora	Running	
Adobe Genuine Software Integri	Adobe Systems, Incorpora	Running	
AllJoyn Router Service	Microsoft Corporation	Stopped	
Application Layer Gateway Service	Microsoft Corporation	Stopped	
AMD Crash Defender Service	Advanced Micro Devices, I	Running	
AMD External Events Utility	AMD	Running	
Application Identity	Microsoft Corporation	Stopped	
Application Management	Microsoft Corporation	Stopped	
🖌 App Rez diness	Microsoft Corporation	Stopped	
AppX peployment Service (App	Microsoft Corporation	Running	
ARY OURY CRATE Service	ASUSTeK COMPUTER INC.	Running	
AS IS Com Service	ASUSTek Computer Inc	Running	
logic hat some secure Microsoft servic	es may not be disabled.	Enable	all Disable all

**Step 5:** Click Appy and select Ok.

Restart your PC and head to Windows Security to enable Memory Integrity function.

# 4. Update Incompatible Drivers

You can update outdated drivers on your computer and enable memory integrity without any problem. You need to use the Device Manager menu to make changes.

**Step 1:** Right-click on Windows key and open the Device Manager menu.

Step 2: Select 'View' in the menu bar.

#### Step 3: Select 'Show hidden devices'.

File	Action	View	Help		
		•	Devices by type		
× 🔒	DESKT	0	Devices by connection		
>	📢 Au	d	Devices by container		
>	🚯 Blu	IE	Devices by driver		
>	Co	n	Drivers by type		
>	Dis	ik F	Drivers by device		
>	Fir	r m	Resources by type		
>	Hu	n	Resources by connection		
>					
>	Ke	yl	Show hidden devices		
>	U Mi	Cl	Customize		
>		twork a	daptors		
>	Ot	her devi	res		
>	Ports (COM & LPT)				
>	>  Print queues				
>	Processors				
>	Security devices				
>	> F Software components				

**Step 4:** Check for yellow exclamation marks beside outdated drivers from the list.

**Step 5:** Right-click on such drivers and select 'Update drivers' from the context menu.

>	Sound, video and game controllers						
>	Storage controllers						
>		System devices					
~	Ŷ	Universal Serial Bus control	lers				
		AMD USB 3.10 eXt					
		AMD USB 3.10 eXt Update driver					
		AMD USB 3.10 eXt Uninstall device					
	USB Composite D						
		USB Composite D Scan for hardware changes					
	USB Root Hub (US Properties						
	USB Root Hub (USD 3.0)						
	USB Root Hub (USB 3.0)						
	<u>11</u>						

Step 6: Follow on-screen instructions to complete the update process.

For more details, read our dedicated post to update drivers on Windows.

### 5. Use Security Processor Troubleshooting

You can run security processor troubleshooting and reset TPM (Trusted Platform Module) to fix issues like memory integrity greyed out.

Step 1: Press the Windows key and search for Windows Security.

**Step 2:** Hit Enter to open the app.

Step 3: Select 'Device security' from the left sidebar.

Step 4: Open Security processor details.



Step 5: Select 'Security processor troubleshooting'.

Step 6: Click 'Clear TPM' and restart the PC.



# 6. Update Windows 11

An outdated Windows 11 build can lead to issues like incompatible drivers errors for memory integrity. Microsoft frequently releases new updates to add features, install the latest drivers, and fix bugs.

Step 1: Open the Windows Settings menu.

Step 2: Select Windows Update from the left sidebar.

Step 3: Download and install the pending Windows update on your PC.



**RECENT POSTS** 

Best 15-inch Laptops 2023 to Satisfy Professionals, Gamers, & Travelers

Best 14-inch Laptops 2023 for the Ideal Mix of Performance, Mobility & Battery Life

7 Best 13-inch Laptop 2023 for Seriously Portable Computing

How to Fix SFC Scannow Not Working on Windows 11

How to Uninstall Microsoft Edge on Windows 11

How to Stop OneDrive From Opening at Startup on Windows

How to Set Up and Use iCloud on Windows 11

Best Gaming Laptops Under \$500 in 2023 for Gamers Who Love to Save Money

# Secure Your Windows Prime · Privacy Policy · Terms of Use · Affiliate Disclosure · CCPA · About Us · Contact

Us We don't recommend using your Windows PC with the memory integrity option disabled. Which trick worked for you? Share your findings in the comments below.



Name \*

Email \*

Website

Save my name, email, and website in this browser for the next time I comment.

POST COMMENT