

EVE-NG Documentation

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How to enable Windows 11 Virtualization

BIOS Settings

1. First you must be sure if your CPU supports virtualization and it is enabled in the BIOS. Different vendors and BIOS will have different screen and setup options, but logic virtualization settings are same. Virtualization must be set as ON. Below is example for Lenovo X1 Carbon Laptop BIOS.



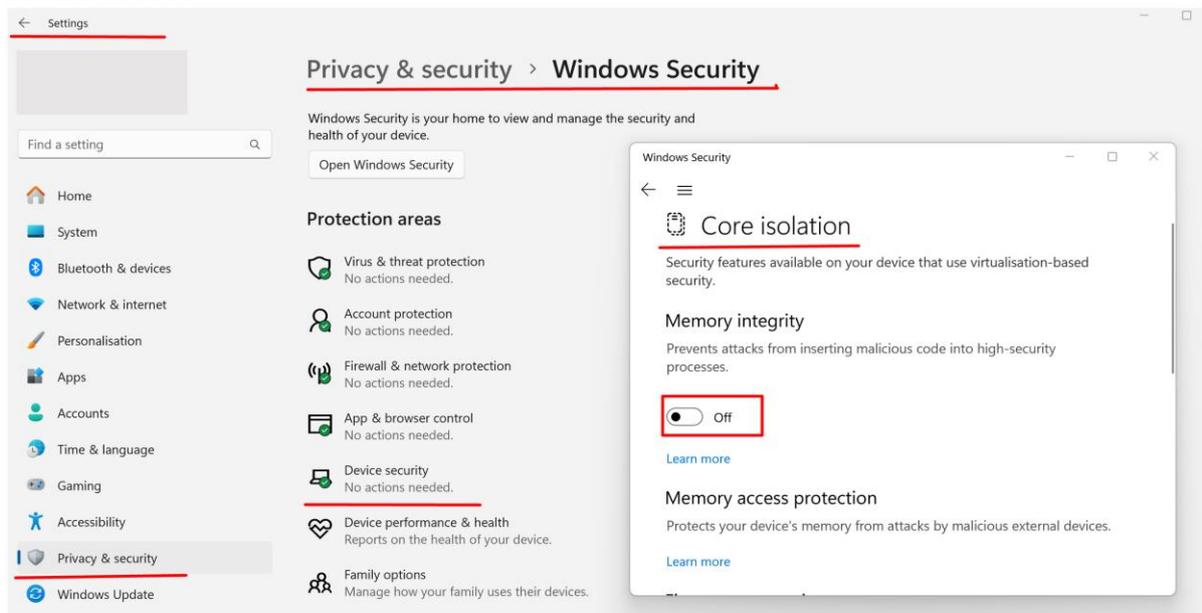
Disable Memory Integrity

2. Disable Windows 11 Memory Integrity option:

It's located as following in Windows 11:

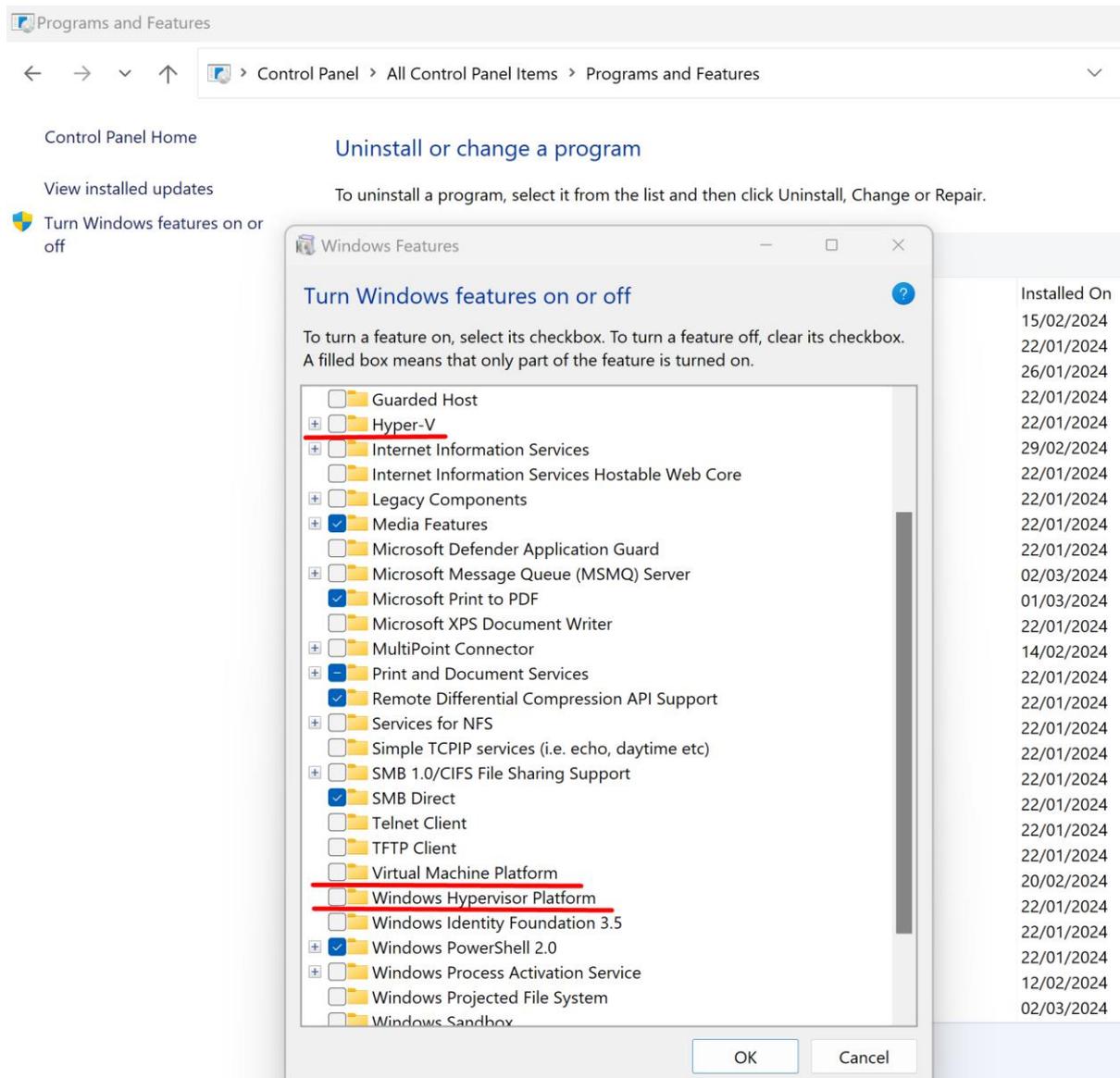
Settings -> Privacy & security -> Windows Security -> Device security -> Core isolation -> Memory integrity.

Disable it/OFF.



Disable MS Windows 11 features related for Hyper-V

3. Go to *Control Panel/All Control Panel Items/Programs and features/Turn Windows Features on or off*.
- 3.1. **Disable (uncheck) Hyper-V, Windows Machine Platform and Windows Hypervisor platform**



Disable MS Windows 11 Hyper-V service by CLI

4. RUN CMD as administrator or *Powershell* to disable MS hypervisor service.

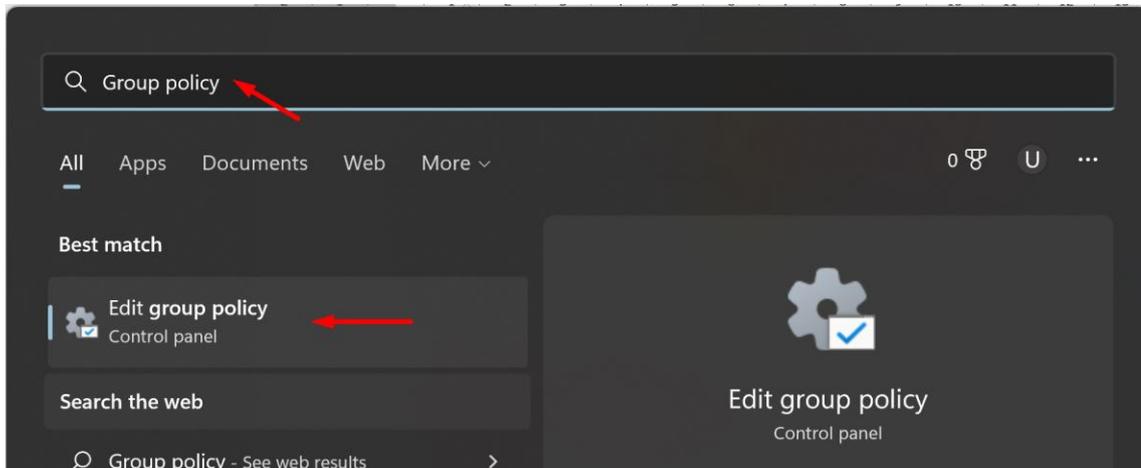
```
bcdedit /set hypervisorlaunchtype off
```

Close the command prompt after executing the commands and *restart the Windows 11 system*.

Turn OFF Virtualization-based-Security (important)

5. Process to turn off virtualization-based Security:

5.1. Use Windows 11 Search and find Group policy editor (Windows 11 Pro only), Home edition is required to make settings manually via regedit. [VM Ware kbit link below.](#)



5.2. Go to *Local Computer Policy > Computer Configuration > Administrative Templates > System*

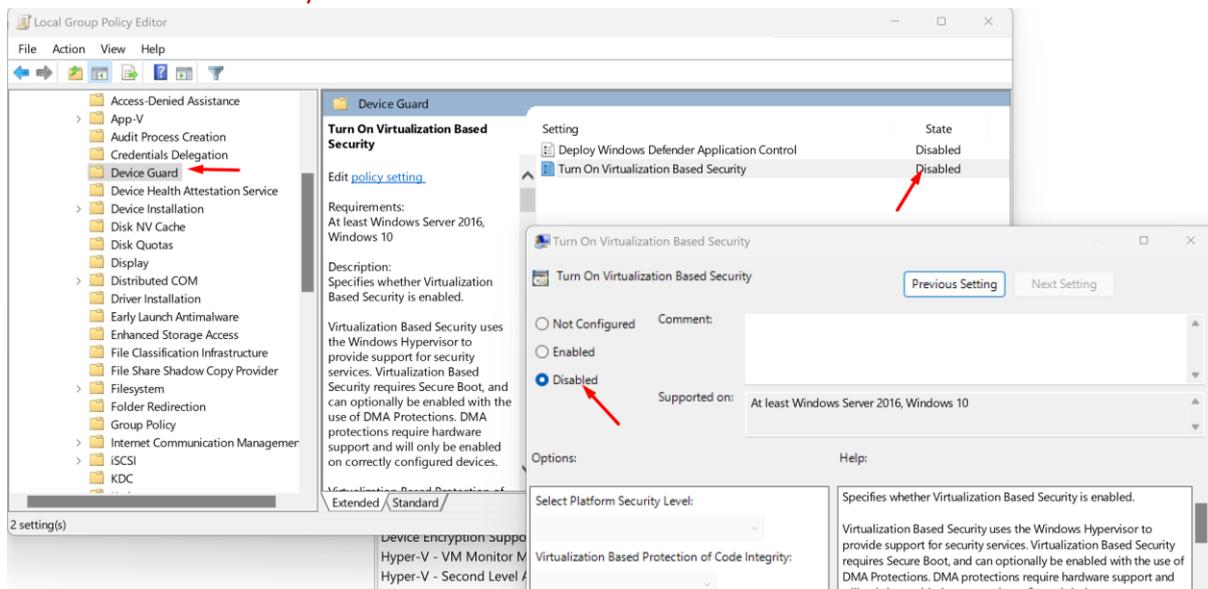
5.3. Double Click on Device Guard on the right-hand side to open.

5.4. Double Click on "Turn on Virtualization Security" to open a new window

5.5. It would be "Not Configured", Select "Disable" and click "Ok"

5.6. Close the Group Policy Editor.

5.7. Restart the system



Verify your Windows 11 virtualization settings

6. To verify if your Windows has disabled Virtual machine security:

`msinfo32/system`

```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>msinfo32/svsystem
C:\Windows\System32>
```

Output MUST show:

System Information		
File Edit View Help		
System Summary	Item	Value
Hardware Resources	Installed Physical Memory (RAM)	32.0 GB
Components	Total Physical Memory	31.7 GB
Software Environment	Available Physical Memory	22.3 GB
	Total Virtual Memory	33.7 GB
	Available Virtual Memory	23.0 GB
	Page File Space	2.00 GB
	Page File	C:\pagefile.sys
	Kernel DMA Protection	On
	Virtualization-based security	Not enabled 
	Windows Defender Application Control policy	Enforced
	Windows Defender Application Control user mode policy	Off
	Device Encryption Support	Meets prerequisites

Reference to: <https://kb.vmware.com/s/article/2146361>