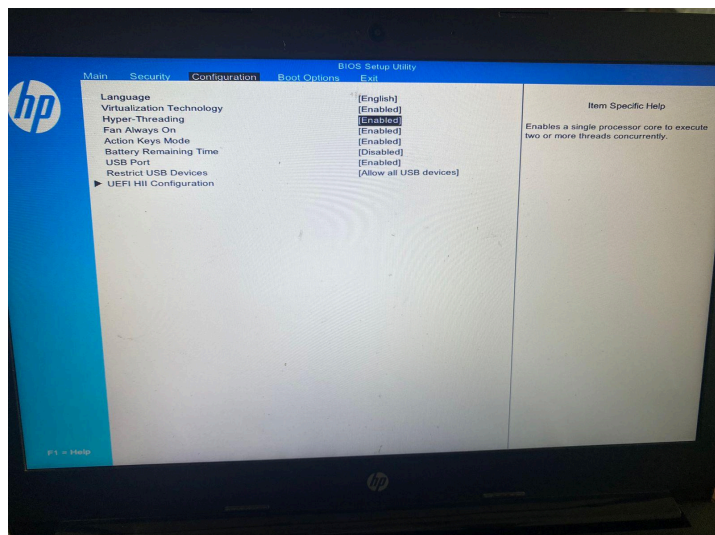
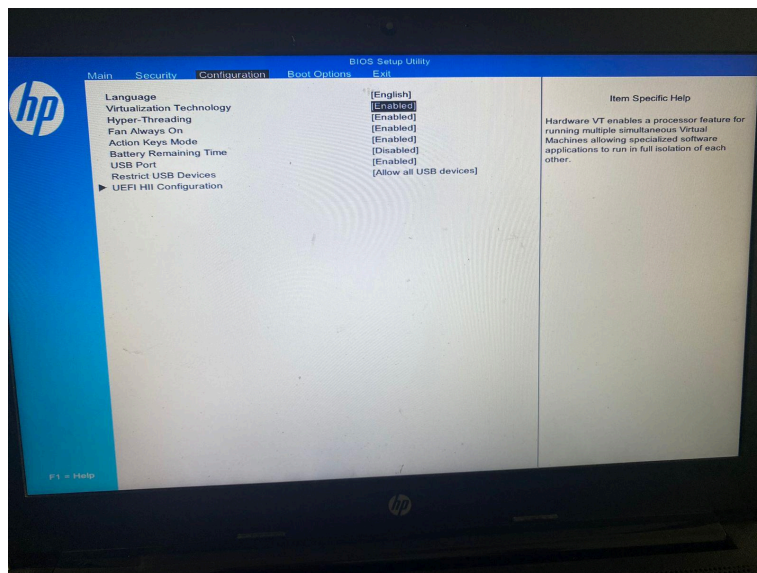


Troubleshooting Guide: Enabling Intel Virtualization Technology for GNS3 on Windows

This document provides troubleshooting steps for resolving errors when attempting to enable Intel Virtualization Technology on a Windows machine to run GNS3 for network device emulation. We have tested these steps successfully on HP and Lenovo laptops running Windows 11. However, please note that results may vary depending on the specific laptop model or Windows version.

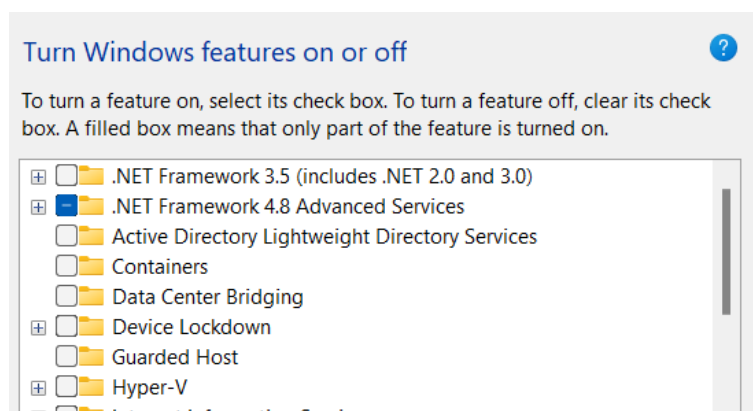
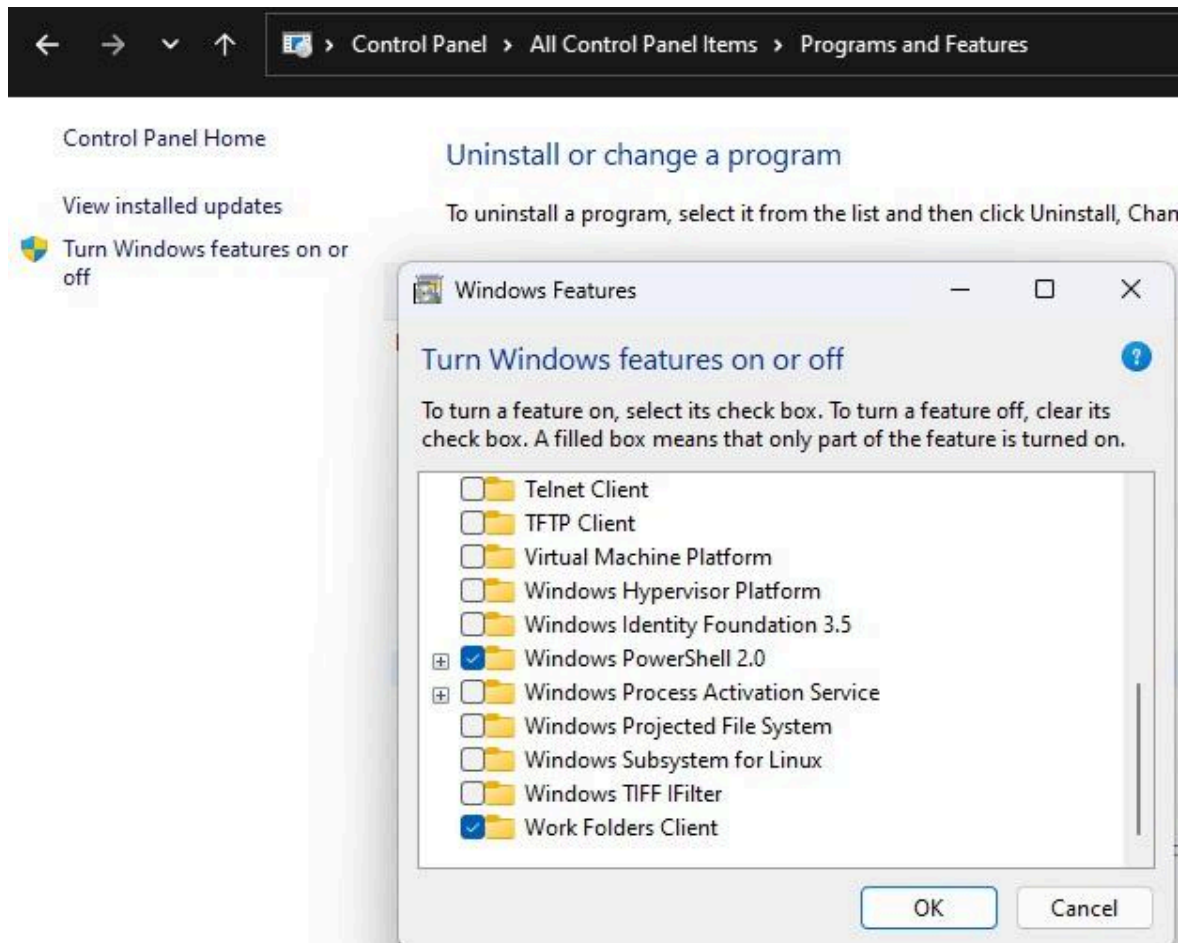
BIOS Settings

Enable Virtualization technology in the BIOS



Windows Features

Make Sure “Virtual Machine Platform”, “Windows Hypervisor Platform”, “Windows subsystem for Linux” and “Hyper-V” are disabled



Troubleshooting Steps

If the issue still persists, in some systems, following the steps below may help:

Please read this entire document before proceeding with the troubleshooting steps. Doing so will give you an overview of the expected results and help ensure a smoother process.

These steps involve adjusting settings in the Windows Registry and Group Policy to disable "Device Guard" (virtualization-based security). Please ensure you backup your registry before making any changes, and proceed at your own risk to avoid unintended issues.

For further reference, I've included a link to the Broadcom discussion post with more detailed steps.

<https://community.broadcom.com/vmware-cloud-foundation/communities/community-home/digestviewer/viewthread?MessageKey=43004e0d-13e7-41ec-bedd-9ddfde421e1d&CommunityKey=f707ac3-9412-4fad-b7af-018f5da56d9f>

Go through the below response where they've given the solution. I've added some screenshots for the reference

community.broadcom.com/vmware-cloud-foundation/communities/community-home/digestviewer/viewthread?MessageKey=43004e0d-13e7-41ec-bedd-9ddfde421e1d&CommunityKey=f707ac3-9412-4fad-b7af-018f5da56d9f

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26. RE: Virtualized Intel VT-x/EPT Error

0 Recommend

Posted Oct 29, 2022 07:15 PM

louey11

Hi

I resolved this issue on my host by creating a new registry key value "Lsa", I have been struggling since last summer.

Find out the solution : <https://kb.vmware.com/s/article/2146361>

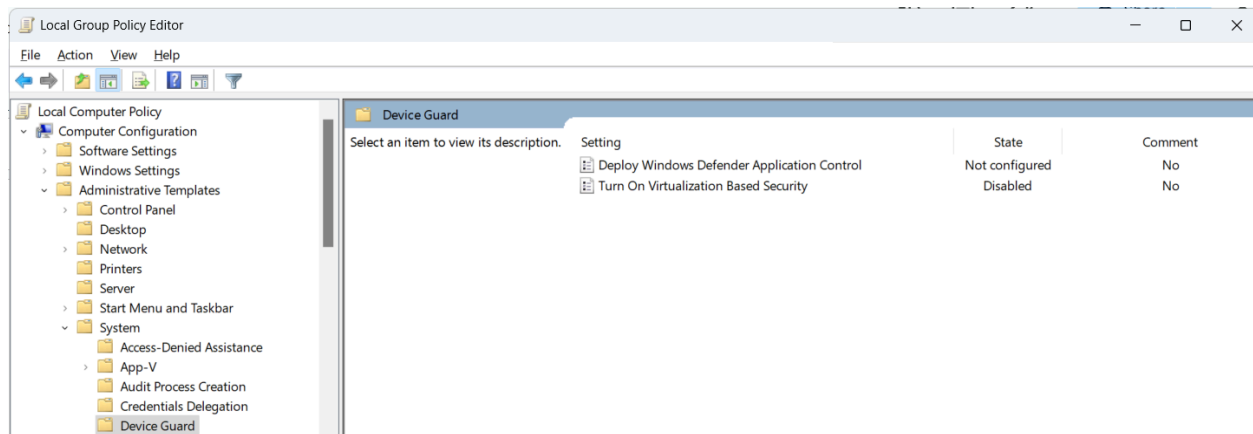
Finally found a solution !! I did not have the value "LsaCfgFlags" in my registry key, so I had to create it after disabling Hyper-V and VBS and credential guard : follow this <https://kb.vmware.com/s/article/2146361>

1. Run "bcdedit /set hypervisorlaunchtype off" to disable hypervisor Close the command prompt after executing the commands and restart the system.
2. Process to turn off virtualization-based Security:
Below steps can be followed to turn off virtualization-based Security for Windows 10 Home & Pro:
For Microsoft Windows 10 Pro & above:
Edit group policy (gpedit)
Go to Local Computer Policy > Computer Configuration > Administrative Templates > System
Double Click on Device Guard on the right hand side to open.
Double Click on "Turn On Virtualization Security" to open a new window
It would be "Not Configured", Select "Disable" and click "Ok"
Close the Group Policy Editor.
Restart the system
3. For Microsoft Windows 10 Home:
Note: This procedure modifies the Windows registry. Before making any registry modifications, ensure that you have a current and valid backup of the registry and the virtual machine. For more information on backing up and restoring the registry, see the Microsoft Knowledge Base article 256986.
Open Registry Editor
Go to HKEY_LOCAL_MACHINE > SYSTEM > CurrentControlSet > Control > DeviceGuard
On the right-hand side, write a new key
 1. a. Right Click > New > DWORD (32-bit) Value
 3. b. Name this Value "EnableVirtualizationBasedSecurity"
 4. By default, it should be 0, Double click, and confirm the value
 5. 4. Go to HKEY_LOCAL_MACHINE > SYSTEM > CurrentControlSet > Control > Lsa
 6. 5. On the right-hand side, write a new key

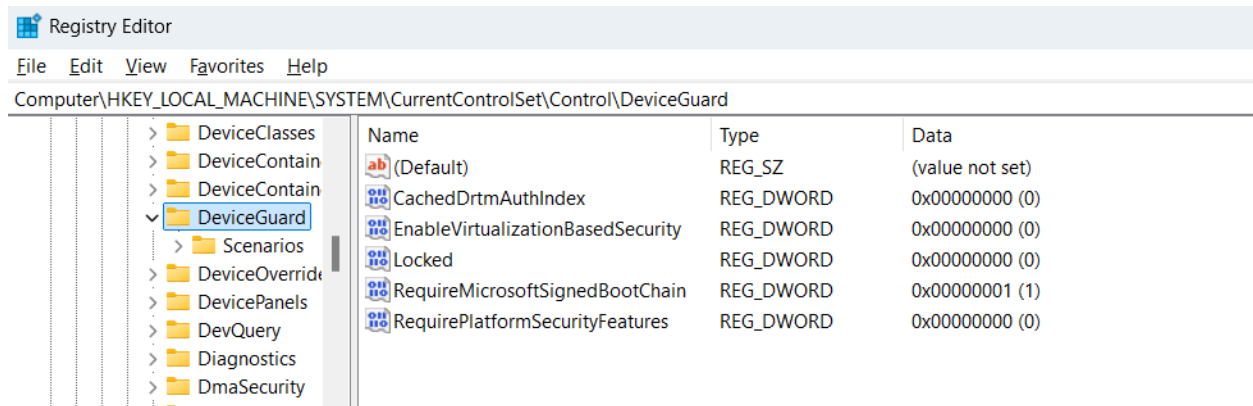
Step1: Disable Hypervisor from command prompt and Restart the machine

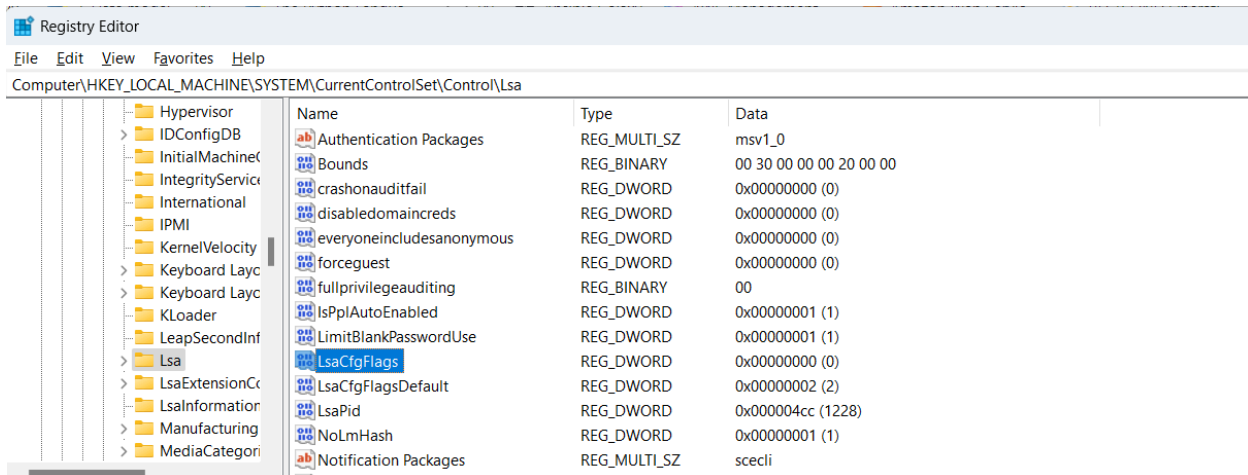
Run `"bcdedit /set hypervisorlaunchtype off"`

Step2: Disable Virtualization based Security in Group Policy



Step3: Registry Update





Step4: Check Hyper V State from powershell as administrator

It should show as disabled.

Get-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V

```
PS C:\WINDOWS\system32> Get-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V

FeatureName      : Microsoft-Hyper-V
DisplayName      : Hyper-V Platform
Description      : Provides the services that you can use to create and manage virtual machines and their resources.
RestartRequired : Possible
State            : Disabled
CustomProperties :
```

Final GNS3 Settings

