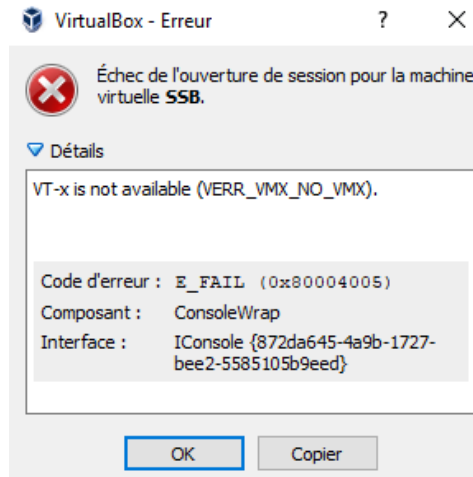


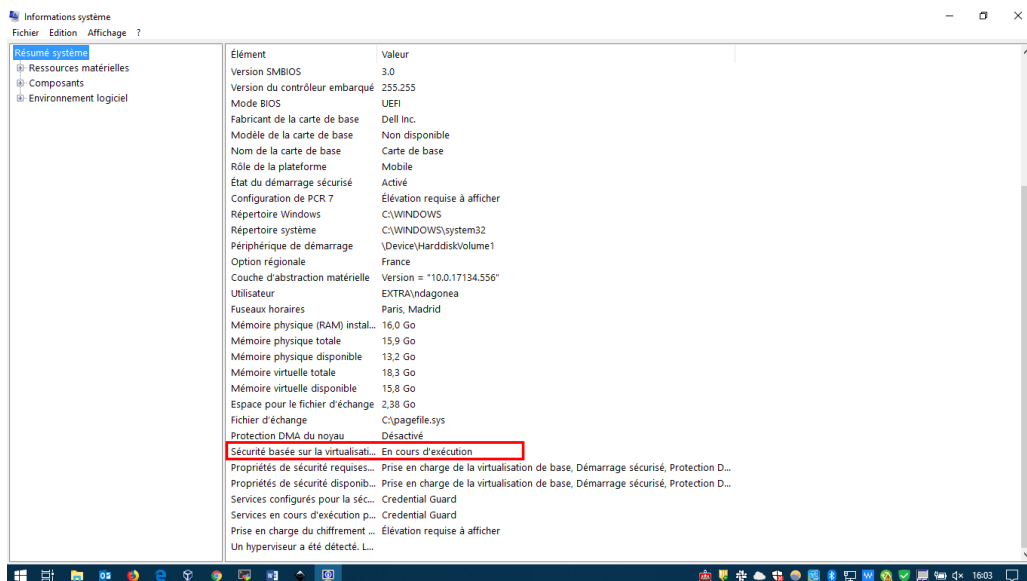
VirtualBox on Windows 10 Enterprise

The issue

When you run a virtual machine on Windows 10 Enterprise you may have this error.



See in "System Information": another hypervisor (Hyper-V provided by Microsoft) is running.



Solution

Hyper-V must be disabled to allow VirtualBox to run. To date, I have not found a way to permanently disable Hyper-V. On my machine, I manage to temporarily suspend it (with the Device Guard and Credential Guard hardware readiness tool):

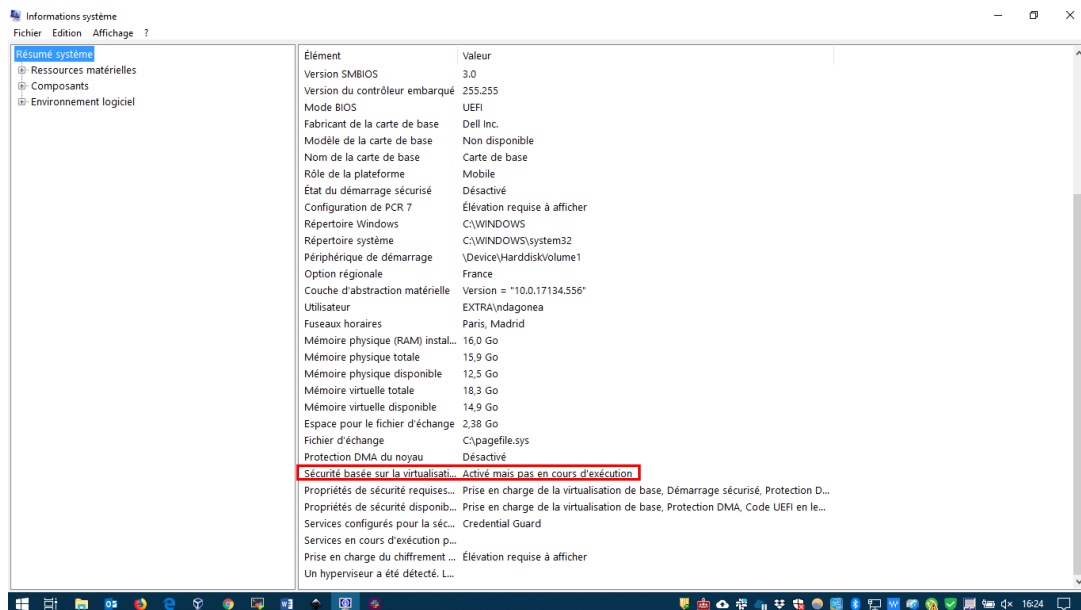
- <https://www.microsoft.com/en-us/download/details.aspx?id=53337>
- <https://docs.microsoft.com/en-us/windows/security/identity-protection/credential-guard/credential-guard-manage#turn-off-with-hardware-readiness-tool>.

However, it seems that the group policy loaded at machine startup (being on CEA/extra, I do not know for other institutions) activates this parameter again (the problem is reported here: <https://superuser.com/questions/1091342/permanently-disable-hyper-v-in-windows-10>).

The Device Guard can only be used on machines with an active Secure Boot. Deactivating the Secure Boot can then be a solution to make VirtualBox work.

Procedure

1. Right-click on the disk where BitLocker is enabled (C: usually) > Manage BitLocker
2. Save your recovery key (**necessary**, it can be requested at the next boot)
3. Suspend BitLocker (not disabled)
4. Switch off the machine, restart, access the bios (F12 generally).
5. Deactivate Secure Boot
6. Save and start normally (BitLocker is reactivated automatically)
7. In "System information", Hyper-V no longer appears as running but VirtualBox cannot yet function.



8. Use DG Readiness Tool to disable Credential Guard and Hyper-V.
 - a. Download the tool: <https://www.microsoft.com/en-us/download/details.aspx?id=53337>
 - b. Launch Windows PowerShell in administrator mode (search for "Windows PowerShell" in the Start menu, once found right-click launch and then "Run as administrator").
 - c. By default, script execution is not allowed. It must be allowed with the following command (you can return to the "Restricted" state at the end of the process).

Set-ExecutionPolicy Unrestricted

- d. Execute the following command in the folder where the tool is located (navigate in the tree structure with the command `cd`). (There are error messages in red, but it does not matter).

`.\DG_Readiness_Tool_v3.6.ps1 -Disable`

```

Administrateur: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

PS C:\WINDOWS\system32> cd C:\Users\ndagonea\Downloads\dgreediness_v3.6\
PS C:\Users\ndagonea\Downloads\dgreediness_v3.6> .\DG_Readiness_Tool_v3.6.ps1 -Disable
#####
Readiness Tool Version 3.4 Release.
#####
Tool to check if your device is capable to run Device Guard and Credential Guard.
#####
Disabling Device Guard and Credential Guard
Deleting RegKeys to disable DG/CG
Erreur : Erreur : le système n'a pas trouvé la clé ou la valeur de Registre spécifiée.
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Erreur : Erreur : le système n'a pas trouvé la clé ou la valeur de Registre spécifiée.
del : Impossible de trouver le chemin d'accès « C:\WINDOWS\System32\CodeIntegrity\SIPolicy.p7b », car il n'existe pas.
Au caractère Ligne:1 : 1
+ del "Senv:windir\System32\CodeIntegrity\SIPolicy.p7b"
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\WINDOWS\Syst...ty\SIPolicy.p7b:String) [Remove-Item], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.RemoveItemCommand

Disabling Hyper-V and IOMMU
Disabling Hyper-V failed please check the log file

Please reboot the machine, for settings to be applied.
PS C:\Users\ndagonea\Downloads\dgreediness_v3.6>

```

- e. Restart (validate both choices with F3), that's it! (Even after a reboot).

