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Enterprise

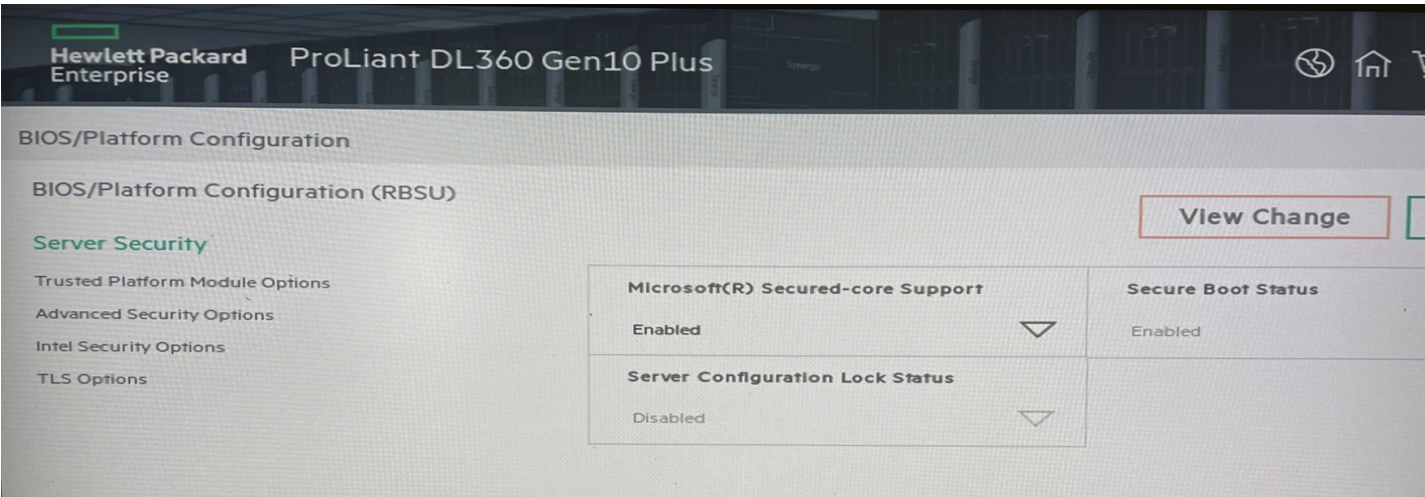
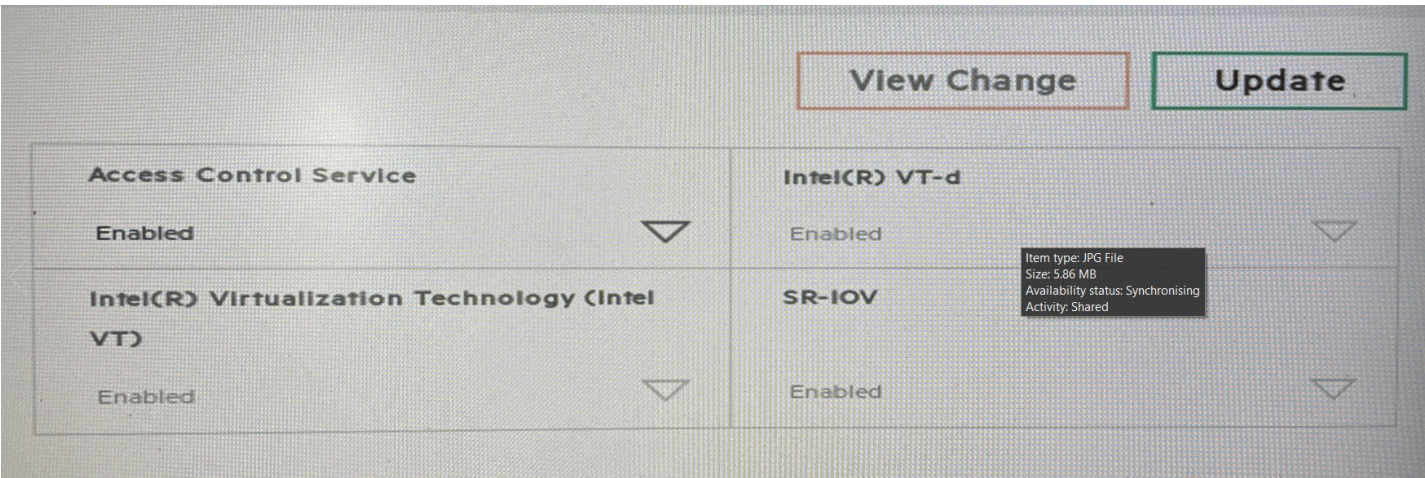
**All ProLiant ML/DL/BL server//Unable To Add Hyper-V Role In Windows
2022**

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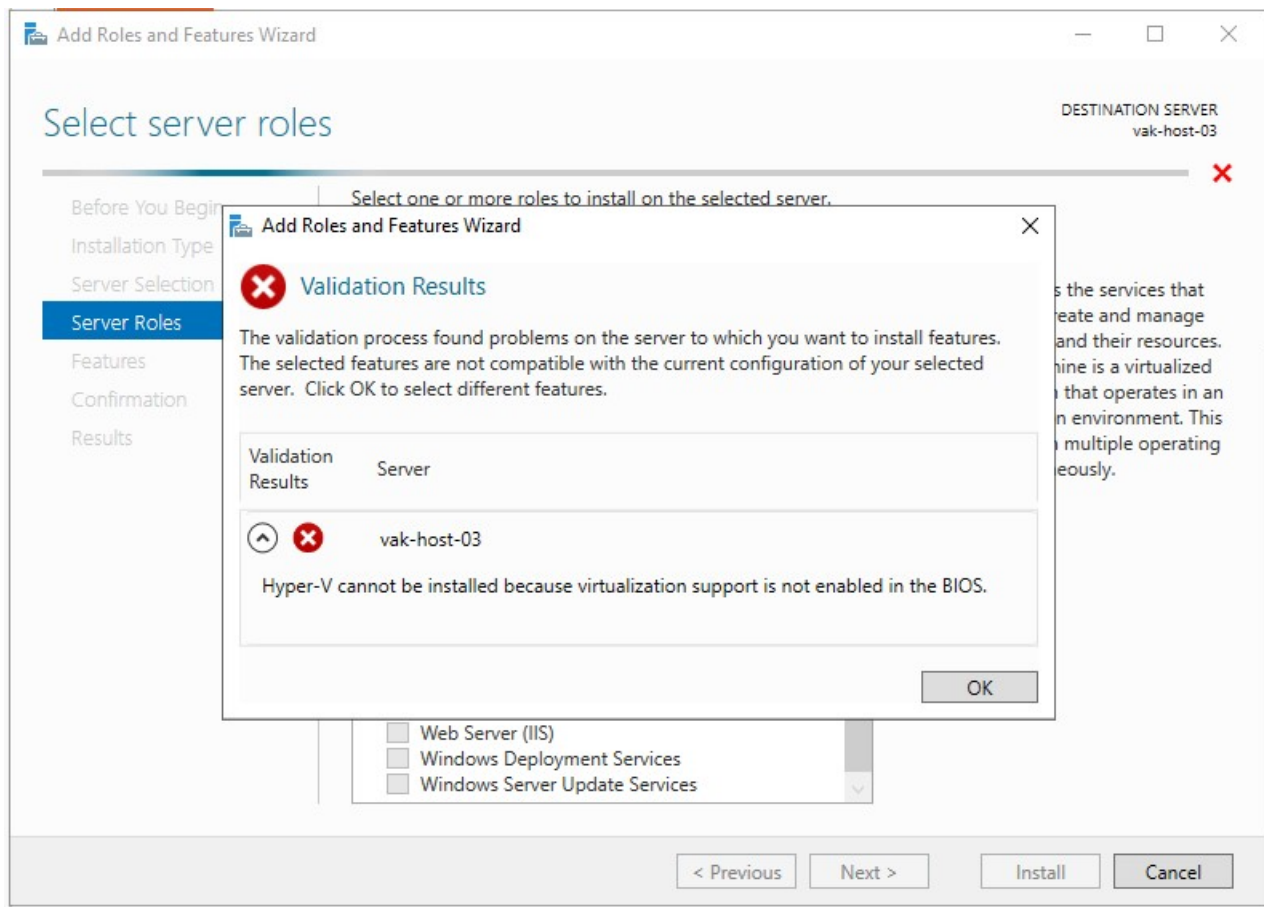
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Issue

After enabling the Virtualization and Microsoft Secured Core options in BIOS, complete the Windows 2022 OS installation.



When we try to add Hyper-V Role in Windows, we see the below error.



System Information will report as "Hyper-V Virtualization Enabled in firmware - No" even though this option is enabled in BIOS

System Information		
File Edit View Help		
System Summary	Item	Value
Hardware Resource	OS Name	Microsoft Windows Server 2022 Standard
Components	Version	10.0.20348 Build 20348
Software Environme	Other OS Description	Not Available
	OS Manufacturer	Microsoft Corporation
	System Name	VAK-HOST-03
	System Manufacturer	HPE
	System Model	ProLiant DL360 Gen10 Plus
	System Type	x64-based PC
	System SKU	P28948-B21
	Processor	Intel(R) Xeon(R) Silver 4309Y CPU @ 2.80GHz
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	BIOS Version/Date	HPE U46, 22/09/2021
	SMBIOS Version	3.4
	Embedded Controller Version	2.55
	BIOS Mode	UEFI
	BaseBoard Manufacturer	HPE
	BaseBoard Product	ProLiant DL360 Gen10 Plus
	BaseBoard Version	Not Available
	Platform Role	Enterprise Server
	Secure Boot State	On
	PCR7 Configuration	Not Available
	Windows Directory	C:\Windows
	System Directory	C:\Windows\system32
	Boot Device	\Device\HarddiskVolume1
	Locale	New Zealand
	Hardware Abstraction Layer	Version = "10.0.20348.143"
	User Name	Not Available
	Time Zone	New Zealand Daylight Time
	Installed Physical Memory (RAM)	128 GB
	Total Physical Memory	128 GB
	Available Physical Memory	124 GB
	Total Virtual Memory	146 GB
	Available Virtual Memory	142 GB
	Page File Space	18.1 GB
	Page File	C:\pagefile.sys
	Kernel DMA Protection	On
	Virtualization-based security	Not enabled
	Device Encryption Support	Not Available
	Hyper-V - VM Monitor Mode Extensions	Yes
	Hyper-V - Second Level Address Translation Extensions	Yes
	Hyper-V - Virtualization Enabled in Firmware	No
	Hyper-V - Data Execution Protection	Yes

Environment

Any ProLiant servers supporting Microsoft Windows 2022 Operating System

Cause

Firmware Protection and Memory Integrity options in Windows needs to be Turned On as per the Implementation Guide for Windows 2022

Resolution

Turn On the Firmware Protection and Memory Integrity Options from Windows Device Security. This will allow to add Hyper-V Role without any issues.

Steps:

Immediately after the OS installation, under Device security >> Core isolation >> Turned on Firmware protection at this moment, the Memory Integrity Option will not be visible. The Host has to be Rebooted after the above change.

Now when verified, "Hyper-V Virtualization Enabled in firmware - Yes"

Turn On = Memory Integrity under Device Security >> Core isolation

Reboot the Host to apply the changes.

Now successfully able to add Hyper-V Role and also create Virtual Machines without any issues.

