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Hyper-V integration components update for Windows virtual machines.

This article describes an update for the latest integrated components for Windows Server 2012 R2 and Windows Server 2008 R2 Guest Virtual Machines (VMs) that are running on a Windows 10-based or Windows Server 2016-based host, or a Windows Server 2012 R2-based host.

How to get this update.

This update will be downloaded and installed automatically.

This update is now available for installation through WSUS.

If you install a language pack after you install this update, you must reinstall this update. Therefore, we recommend that you install any language packs that you need before you install this update. For more information, see [Add language packs to Windows](#).

To use the update in this package, you don't have to make any changes to the registry.

Hyper-V integration components update for Windows virtual machines.

This article describes an update for the latest integrated components for Windows virtual machines (VMs) that are running on a Windows 10-based or Windows Server 2016-based host, or a Windows Server 2012 R2-based host. This update is available on Windows Server 2012 R2, Windows Server 2012, and Windows Server 2008 R2 Service Pack 1 (SP1)-based Hyper-V guest. Before you install this update, check out the [Prerequisites](#) section.

Issues fixed in this update.

Consider the following scenario:

You connect a VM to a virtual switch that uses a physical adapter.

You enable the single-root I/O virtualization (SR-IOV) option in Virtual Switch Manager.

You disable the physical adapter on the Hyper-V guest while network I/O is running on the VM.

In this scenario, the VM crashes.

The current Write Ahead Logging (WAL) implementation incorrectly assumes that the Virtual Hard Disk (VHD) ownership never changes. However, the ownership does change in multiple VM group replication in a shared VHD scenario.

How to get this update.

You can get this update through Windows Update and the Microsoft Download Center. Even though this issue has only been observed in Windows Server 2012 R2, Windows Server 2012, or Windows Server 2008 R2 SP1, the update also applies to Windows 8.1 and Windows 7 SP1.

Important If you install a language pack after you install this update, you must reinstall this update. Therefore, we recommend that you install any language packs that you need before you install this update. For more information, see [Add language packs to Windows](#).

Method 1: Windows Update.

This update is provided as a Recommended update on Windows Update. For more information on how to run Windows Update, see [How to get an update through Windows Update](#).

Method 2: Microsoft Download Center.

The following files are available for download from the Microsoft Download Center.

All supported x86-based versions of Windows 8.1.

All supported x64-based versions of Windows 8.1.

All supported x64-based versions of Windows Server 2012 R2.

All supported x64-based versions of Windows Server 2012.

All supported x86-based versions of Windows 7.

All supported x64-based versions of Windows 7.

All supported x64-based versions of Windows Server 2008 R2.

Note This download is not self-installing. Please see [Managing Hyper-V Integration Services](#) for guidance on how to manage and install integrated components. To start the download, click the Download button.

For more information about how to download Microsoft support files, click the following article number to view the article in the Microsoft Knowledge Base:

119591 How to obtain Microsoft support files from online services Microsoft scanned this file for viruses. Microsoft used the most current virus-detection software that was available on the date that the file was posted. The file is stored on security-enhanced servers that help prevent any unauthorized changes to the file.

Update detail information.

Prerequisites.

Registry information.

To use the update in this package, you don't have to make any changes to the registry.

Restart requirement.

You may have to restart the computer after you apply this update.

Update replacement information.

This update doesn't replace a previously released update.

Status.

Microsoft has confirmed that this is a problem in the Microsoft products that are listed in the "Applies to" section.

Manage Hyper-V Integration Services.

Hyper-V Integration Services enhance virtual machine performance and provide convenience features by leveraging two-way communication with the Hyper-V host. Many of these services are conveniences, such as guest file copy, while others are important to the virtual machine's functionality, such as synthetic device drivers. This set of services and drivers are sometimes referred to as "integration components". You can control whether or not individual convenience services operate for any given virtual machine. The driver components are not intended to be serviced manually.

For details about each integration service, see [Hyper-V Integration Services](#).

Each service you want to use must be enabled in both the host and guest in order to function. All integration services except "Hyper-V Guest Service Interface" are on by default on Windows guest operating systems. The services can be turned on and off individually. The next sections show you how.

Turn an integration service on or off using Hyper-V Manager.

From the center pane, right-click the virtual machine and click Settings .

From the left pane of the Settings window, under Management , click Integration Services .

The Integration Services pane lists all integration services available on the Hyper-V host, and whether the host has enabled the virtual machine to use them.

Turn an integration service on or off using PowerShell.

The following examples demonstrate turning the guest file copy integration service on and off for a virtual machine named "demovm".

Get a list of running integration services:

The output should look like this:

Turn on Guest Service Interface:

Verify that Guest Service Interface is enabled:

Turn off Guest Service Interface:

Checking the guest's integration services version.

Some features may not work correctly or at all if the guest's integration services are not current. To get the version information for a Windows, log on to the guest operating system, open a command prompt, and run this command:

Earlier guest operating systems will not have all available services. For example, Windows Server 2008 R2 guests cannot have the "Hyper-V Guest Service Interface".

Start and stop an integration service from a Windows Guest.

In order for an integration service to be fully functional, its corresponding service must be running within the guest in addition to being enabled on the host. In Windows guests, each integration service is listed as a standard Windows service. You can use the Services applet in Control Panel or PowerShell to stop and start these services.

Stopping an integration service may severely affect the host's ability to manage your virtual machine. To work correctly, each integration service you want to use must be enabled on both the host and guest. As a best practice, you should only control integration services from Hyper-V using the instructions above. The matching service in the guest operating system will stop or start automatically when you change its status in Hyper-V. If you start a service in the guest operating system but it is disabled in Hyper-V, the service will stop. If you stop a service in the guest operating system that is enabled in Hyper-V, Hyper-V will eventually start it again. If you disable the service in the guest, Hyper-V will be unable to start it.

Use Windows Services to start or stop an integration service within a Windows guest.

Open Services manager by running `services.msc` as an Administrator or by double-clicking the Services icon in Control Panel.

Find the services that start with "Hyper-V".

Right-click the service you want start or stop. Click the desired action.

Use Windows PowerShell to start or stop an integration service within a Windows guest.

To get a list of integration services, run:

The output should look similar to this:

Run either `Start-Service` or `Stop-Service`. For example, to turn off Windows PowerShell Direct, run:

Start and stop an integration service from a Linux guest.

Linux integration services are generally provided through the Linux kernel. The Linux integration services driver is named `hv_utils`.

To find out if `hv_utils` is loaded, use this command:

The output should look similar to this:

To find out if the required daemons are running, use this command.

The output should look similar to this:

To see what daemons are available, run:

The output should look similar to this:

Integration service daemons that might be listed include the following. If any are missing, they might not be supported on your system or they might not be installed. Find details, see [Supported Linux and FreeBSD virtual machines for Hyper-V on Windows](#).

`hv_vss_daemon` : This daemon is required to create live Linux virtual machine backups. `hv_kvp_daemon` : This daemon allows setting and querying intrinsic and extrinsic key value pairs. `hv_fcopyp_daemon` : This daemon implements a file copying service between the host and guest.

Examples.

These examples demonstrate stopping and starting the KVP daemon, named `hv_kvp_daemon`.

Use the process ID (PID) to stop the daemon's process. To find the PID, look at the second column of the output, or use `pidof`. Hyper-V daemons run as root, so you'll need root permissions.

To verify that all `hv_kvp_daemon` processes are gone, run:

To start the daemon again, run the daemon as root:

To verify that the `hv_kvp_daemon` process is listed with a new process ID, run:

Keep integration services up to date.

We recommend that you keep integration services up to date to get the best performance and most recent features for your virtual machines. This happens for most Windows guests by default if they are set up to get important updates from Windows Update. Linux guests using current kernels will receive the latest integration components when you update the kernel.

For virtual machines running on Windows 10/Windows Server 2016/2019 hosts:

The image file `vmguest.iso` isn't included with Hyper-V on Windows 10/Windows Server 2016/2019 because it's no longer needed.

Guest Update mechanism Notes Windows 10 Windows Update Windows 8.1 Windows Update Windows 8 Windows Update Requires the Data Exchange integration service.* Windows 7 Windows Update Requires the Data Exchange integration service.* Windows Vista (SP 2) Windows Update Requires the Data Exchange integration service.* - Windows Server 2016 Windows Update Windows Server, Semi-Annual Channel Windows Update Windows Server 2012 R2 Windows Update Windows Server 2012 Windows Update Requires the Data Exchange integration service.* Windows Server 2008 R2 (SP 1) Windows Update Requires the Data Exchange integration service.* Windows Server 2008 (SP 2) Windows Update Extended support only in Windows Server 2016 (read more). Windows Home Server 2011 Windows Update Will not be supported in Windows Server 2016 (read more). Windows Small Business Server 2011 Windows Update Not under mainstream support (read more). - Linux guests package manager Integration services for Linux are built into the distro but there may be optional updates available. *****

* If the Data Exchange integration service can't be enabled, the integration services for these guests are available from the Download Center as a cabinet (cab) file. Instructions for applying a cab are available in this blog post.

For virtual machines running on Windows 8.1/Windows Server 2012R2 hosts:

Guest Update mechanism Notes Windows 10 Windows Update Windows 8.1 Integration Services disk See instructions, below. Windows 8 Integration Services disk See instructions, below. Windows 7 Integration Services disk See instructions, below. Windows Vista (SP 2) Integration Services disk See instructions, below. Windows XP (SP 2, SP 3) Integration Services disk See instructions, below. - Windows Server 2016 Windows Update Windows Server, Semi-Annual Channel Windows Update Windows Server 2012 R2 Integration Services disk See instructions, below. Windows Server 2012 Integration Services disk See instructions, below. Windows Server 2008 R2 Integration Services disk See instructions, below. Windows Server 2008 (SP 2) Integration Services disk See instructions, below. Windows Home Server 2011 Integration Services disk See instructions, below. Windows Small Business Server 2011 Integration Services disk See instructions, below. Windows Server 2003 R2 (SP 2) Integration Services disk See instructions, below. Windows Server 2003 (SP 2) Integration Services disk See instructions, below. - Linux guests package manager Integration services for Linux are built into the distro but there may be optional updates available. **

For virtual machines running on Windows 8/Windows Server 2012 hosts:

Guest Update mechanism Notes Windows 8.1 Integration Services disk See instructions, below. Windows 8 Integration Services disk See instructions, below. Windows 7 Integration Services disk See instructions, below. Windows Vista (SP 2) Integration Services disk See instructions, below. Windows XP (SP 2, SP 3) Integration Services disk See instructions, below. - Windows Server 2012 R2 Integration Services disk See instructions, below. Windows Server 2012 Integration Services disk See instructions, below. Windows Server 2008 R2 Integration Services disk See instructions, below. Windows Server 2008 (SP 2) Integration Services disk See instructions, below. Windows Home Server 2011 Integration Services disk See instructions, below. Windows Small Business Server 2011 Integration Services disk See instructions, below. Windows Server 2003 R2 (SP 2) Integration Services disk See instructions, below. Windows Server 2003 (SP 2) Integration Services disk See instructions, below. - Linux guests package manager Integration services for Linux are built into the distro but there may be optional updates available. **

Install or update integration services.

For hosts earlier than Windows Server 2016 and Windows 10, you'll need to manually install or update the integration services in the guest operating systems.

Procedure to manually Install or update the integration services:

Open Hyper-V Manager. From the Tools menu of Server Manager, click Hyper-V Manager .

Connect to the virtual machine. Right-click the virtual machine and click Connect .

From the Action menu of Virtual Machine Connection, click Insert Integration Services Setup Disk . This action loads the setup disk in the virtual DVD drive. Depending on the guest operating system, you might need to start the installation manually.

After the installation finishes, all integration services are available for use.

These steps can't be automated or done within a Windows PowerShell session for online virtual machines. You can apply them to offline VHDX images; see [How to install integration services when the virtual machine is not running](#). You can also automate the deploy of the integration services through Configuration Manager with the VMs Online , but you need to restart the VMs at the end of the installation; see [Deploying Hyper-V Integration Services to VMs using Config Manager and DISM](#).

esSJae's Virtualization Blog

Hyper-V VMGuest.iso for older Windows OSes in Win10/2016.

Posted by essjae on March 2, 2017.

If you're playing around with older OSes in the latest versions of Hyper-V, you're missing one thing, the Integration Components (IC).

With Win10/Server2016 they no longer include this ISO as the current "supported" OSes all get their IC via Windows Update.

You can get the IC from Hyper-V 2012/2012R2 Server, a free download, here:

<https://www.microsoft.com/en-us/evalcenter/evaluate-hyper-v-server-2012-r2> (to extract, you'll need to mount the ISO, open the x:\sources\install.wim file with something like 7zip, browse to Windows\system32, and extract the vmguest.iso or install Hyper-V Server in a VM to get the vmguest.iso)

Or, if you've got a Windows 8/8.1/2012/2012R2 VM/system available with Hyper-V installed you'll find it in the C:\windows\system32\ folder.

No guarantees how long MS will allow it will stay up here, though it's freely distributed with Hyper-V Server.

After installing the IC on OSes older than Windows Server 2012R2, you will still see 2 unknown devices. Per Microsoft, this is expected: <https://support.microsoft.com/en-us/help/2925727/unknown-device-vmbus-in-device-manager-in-virtual-machine-for-avma>.

If you view the properties of these devices and check driver details, Hardware IDs or Compatible IDs, they will show the following:

vmbus\ vmbus\ vmbus\ vmbus\

These Virtual Devices (VDev) are provided for Automatic Virtual Machine Activation (AVMA) to communicate with the host. AVMA is only supported on virtual machines running Windows Server 2012 R2 or later versions of operating systems.

Windows XP Pro running in Hyper-V. Device Manager shows the 2 unknown devices after the IC have been installed.

Update: The Integration Components won't install in the Home and Starter versions of Windows.