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If you take the tech writing industry too seriously, you would have led to the view that everyone is always right at the forefront of technology, deploying new operating systems once they hit the shelves and discarding old environments before they can get more than one version behind. The reason for this is simple. Most tech writers approach one of three categories: First, it's a professional full-time writer who basically gets to write about the newest, hottest things. Secondly, it's the coach who basically gets called to teach about the newest, hottest stuff. The third reseller/performer/sales engineer who gets encouraged to showcase and sell the newest, hottest stuff. Guys like me are the exception. We are the ones that pass our 9-5s in much the same way as you do: dreamily read all about the newest, hot things on one monitor while feverishly removed in some sick, archaic system on the other. Part of our reality is that we have to maintain old guest operating systems on our hypervisors. One of the many problems that come with this is maintaining the integration of Hyper-V services. Starting with Windows 7 and Windows Server 2008 R2, integration services are built in. Unlike most other components of the operating system, they are never updated by a Windows update or any other standard fix management system. Instead, the version is handled by the host. Sort of. As so many of those who have previously mentioned tech writers are keen to point out, Microsoft plans to change this behavior so that integration services are delivered through Windows Update. What they are not so quick to point out is that Microsoft almost never backports any built-in operating system technology, so this new feature will probably be available exclusively for Windows 10 and Windows Server 2016, and then as host and guests. If you stick to the myths created by the tech writing industry, then you immediately quit all your 2012 R2 and lower operating systems and never have to deal with what I'm going to tell you. Even if you want to do this, you're not going to be able to, so reading is still worth your time. Updating Integration Services Fortunately, updating integration services is a very simple process using VMConnect.exe. This tool is the most easily accessed with Hyper-V Manager. Open the Hyper-V Manager and select the host in the left glass. In the center of the panel, right click on the virtual machine to update and click Connect. Connect to a virtual machine This will open the VMConnect.exe app, which functions as a console connection to a virtual machine. VM console It is not strictly necessary to enter in the first place, but it allows Autoplay. Click on CTRL to send the simulated CTRL to Del to the guest. It's also the top item on the action menu, action, in the next screenshot. When logged in, insert the Integration Service drive by selecting the Integration Services menu in the Action Menu: Insert the Integration Services Drive What happens next depends on your state and whether the automated game is enabled. If you log in and autoplay is on, you'll see the next screenshot. Click Set Hyper-V Integration Services. Autoplay Integration Services If you don't log in when the drive is inserted or if automatic playback is disabled, use Windows Explorer or an increased team request while away and go to D:\support\86. From there, run set up.exe. Integration Service setup.exe For operating systems that already have components either integrated or previously installed, you will be asked to replace them. Click OK. Service Integration Update Fast You will be shown the bar of progress with a text indicating what step it is on: Integration Services Update Progress Finally, you will be asked to reboot the guest. As soon as the guest finishes downloading, the upgrade process will be completed. Integration services reboot the operational integration of the drive service image will be left in the guest's virtual drive. To remove it, click on the Media menu item in the VMConnect console. Then hover over DVD Drive and click Eject vmguest.iso on the spoof that appears. Ejection Of Integration Services That Detect Outdated Integration Services If your guest operating system is older than your host, it is guaranteed to have outdated integration services. A host patch can cause the image to be updated so that even guests with the current OS are out of date. There are three quick ways to find out. Discovering legacy integration services using Hyper-V Manager Hyper-V Manager is one of the quickest ways to find out if virtual machine integration services are out of date. Hyper-V Open Manager. In the left glass, click the host who owns the virtual machine to check. In the center of the panel check the lower division, which contains information about the guest. Look for the Integration Services headline. Hyper-V Manager Integration Services Report that you should know that Linux guests will not report the status. Discovering out-of-date integration services using Viewer Events View contains a number of hyper-V-related sub-strips. Two of them can be used to detect non-date Integration Services. Start by opening Event Viewer on the virtual machine host. Hyper-V-Integration Undertrea View Events Go to Apps and Services Magazines - Microsoft - 'gt; Windows - Hyper-V-Integration - Administrator. If you see IDs events 4000 and/or 4010, they will tell you exactly which service on which the virtual machine is obsolete. 4000 is a condition of error; The integration service listed in the Source field is not Work until integration services are updated; Integration Services Event ID 4000 4010 is a warning condition; Condition; The integration service listed in the Source box may work, but may not have full functionality until the integration services update; 4010 Event Viewer's Event Event ID Hyper-V-Worker Subtree Go to Service Apps and Logs - Microsoft - Microsoft - If you see event ID 23014, it will mean that one of the drivers in the guest operating system is out of date: Integration Services Event Id 23014 Event Viewer's System Log Several entries will bubble all the way to the main system log. Event ID 27 from the Hyper-VmSwitch source is a message about the guest network driver and looks just like the ID 23014 event in the photo above. However, it is not registered under the Hyper-VmSwitch branch. Event ID 6 from the storvsp source about the guest storage driver. It is also similar to 23014 and is also not found in Hyper-V-specific magazines. Discovering legacy integration services using PowerShell PowerShell is probably the fastest way to detect the status of multiple virtual machines at the same time. The basic structure is how it is: Get-VM choose VMName, IntegrationServicesState Get-VM select VMName, IntegrationServicesState, which will produce output as follows: PowerShell: Check the status of the integration service update it's a bit dial, but the output is clear. Any VM, without reporting the status, is not enabled or operated by Linux. The Installation of Integration Services notes that this post is for a textbook, not a deep dive into integration services. For more information on what they are and what they provide, you can read our previous series of articles. The image vmguest.iso exists in C: Windows\System32 on each host running Hyper-V. It is regenerated automatically when it is downloaded from files to C: Windows\vmguest. If you perform a physical to virtual (P2V) conversion, you can use files from anywhere at the previous point of the bullet before making the conversion. This can alleviate some of the transition problems. The same applies to virtual transformations from non-microsoft hypervisor. Don't forget to remove any integration services from other hypervisors first! For normal operations, leaving the disc in a virtual DVD drive is not harmful. Because vmguest.iso is mounted on the C host: drive, it can prevent cluster virtual machines from being from Live Migrated. Make sure you remove the drive after the integration services are updated. Do not install integration services for a different level of hypervisor than a guest will use with. Once installed, the Integration Services update may be removed, although it may not be obvious that is. On Windows Server 2008 R2, you can install applet programs and features to view installed updates and search for KB955484. Subscribe to Hyper-V Dojo Dojo thousands of other IT professionals and receive weekly round-up emails with the latest content from Hyper-V Dojo and become a Hyper-V master! Home 'General' Manual 'Installation' Microsoft Integration Services Drivers KB ID 0001512 Problem If your OS is 2008R2 or newer, then you don't need to do this as drivers are already included. But what if you have a machine you want to put drivers before you virtualize or move it. Well, if you mount an ISO and run it happens; The unsupported guest environment Of Hyper-V Integration Services can only be installed inside a virtual machine running the Hyper-V Bash! You're not my boss! I want the drivers here because I'm going to virtualize it! Solution Mount Integration Services ISO on the machine (or open it with 7ip and treat it as a mail file) If you have a Hyper-V 2016 or new and can't find iso, Microsoft conveniently doesn't include anymore because it's a massive 29Mb size? (Yes, I don't understand either?) Here's a copy. Go to the x86 or amd64 catalog depending on whether you x32 or x64 bits. Find Windows.Version-Hyper\IntegrationServices-processor version.cab that matches your machine and replicates it on your desktop. Then open it, select all the files. Download the Microsoft Integration Service drive to retrieve the file into the folder. Open the administrative team's request and then change the directory to the folder to which you have extracted all the files. You'll run the next team: For %%i in ('dir/b/s.in') do pnputil.exe-i-a%%i it will work, although install all drivers, you can get some warnings that some of the drivers are unsafe or unsigned. Just tell me to install them anyway. Note: If you are on the 2003 server, then there are a bunch of KB updates on the CD that you will also need to install. Related articles, links, credits, or external NA links

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