

Are All of My Servers Really Up to Date?



[JonJor](#) 21 Apr 2009 11:47 AM

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With a single command you can pull a list of all installed updates. Use this to compare patch levels on all systems so you can easily target those not meeting the bar.

We start with simple commands, then build on these to create robust queries with optional CSV and HTML formatting. I think of these commands, which I use on a daily basis, as basics for my Toolkit. If you don't have a Toolkit I suggest you create one now. Place your often used tools in a folder such as 'C:\Toolkit' so that they are always at hand. Grab the first five items under 'Top 10 Downloads'

from [Sysinternals.com](#) to round out your basics.



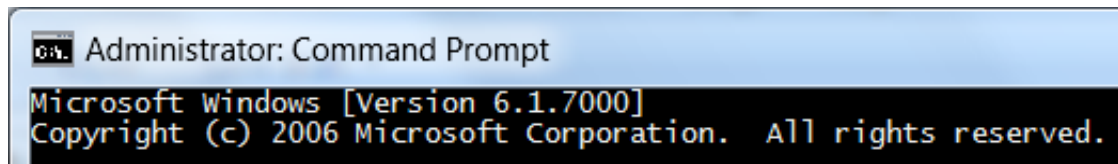
TIP: Go one step further and sign up for a [Live Mesh](#) account with your Windows Live ID. With this you can keep your Toolkit directory, and other directories, synched up across all machines you designate. The folders will be available privately online as well. Further, remote control is built-in for all Mesh enabled systems. Sweet! Clearly remote capabilities are geared more towards workstations than servers, but I use it for both.



And yeah, it's free. Get started [here](#).

Basic Commands

Warm up by opening an elevated command prompt on your SCVMM server (or any server for that matter). If your command window does not show 'Administrator:' as below, you are not running an elevated console.



> **Single command to pull updates.**

```
wmic qfe
```

```

http://support.microsoft.com/?kbid=963660 VMM2008R2-03 Update KB963660
NT AUTHORITY\SYSTEM 2/26/2009
http://support.microsoft.com/?kbid=967062 VMM2008R2-03 Update KB967062
NT AUTHORITY\SYSTEM 2/26/2009

```

You should see a torrent of information scroll through the command window. This is a list of all QFEs (Hotfixes and Updates) installed, along with a good bit of extraneous info.

> Now let's work on formatting. This is my everyday method.

```
wmic qfe list brief
```

```

Update          KB963660          NT AUTHORITY\SYSTEM 2/26/2009
Update          KB967062          NT AUTHORITY\SYSTEM 2/26/2009

```

Now some of the noise is removed and it is easier to read the list of updates.



TIP: Is KBXXXXXX installed on this system?!? I can only remember the last three digits of the update anyway... Easy to check. Just pipe your output to 'find.'

```
wmic qfe list brief | find /i "660"
```

```
Update          KB963660          NT AUTHORITY\SYSTEM 2/26/2009
```

Apparently it is installed. Nice.

> This is good, but we can do better.

```
wmic qfe get csname,hotfixid,description
```

```

VMM2008R2-03 Update      KB963660
VMM2008R2-03 Update      KB967062

```

Now we're getting somewhere. We've selected the header for only those columns we are interested in and have returned a clean list of updates along with the system name.

This much you can keep in your head. You might want to create a batch file for items in the next section.

Advanced Queries

Now that you've waded into the deep end let's perform some real work. These are the commands to place in a batch file for your Toolkit. The steps below assume you have already created a 'C:\Temp' directory on your system. CSName is not required for the next two commands; it is implied.

> Create a CSV file from the output.

```
wmic /output:c:\temp\qfe.csv QFE GET HotFixID,Description /format:csv
```

The resulting CSV file lists these items, ready to be opened in Excel: Node,Description,HotFixID

> CSV files are not as interesting as HTML, so let's shift output formats.

```
wmic /output:c:\temp\qfe.html QFE GET HotFixID,Description /format:htable
```

Now you have a clean multicolored table with results, complete with column headers.

Remote Systems

The only thing left to do is perform this same work on remote machines. First a single machine, then a list of systems. Replace <remotesystem> with your remote system name. Note that we add CSName to pull the remote name.

> List remote system updates.

```
wmic /node:"<remotesystem>" /output:c:\temp\qfe_remote.html QFE GET  
CSName,HotFixID,Description /format:htable
```

If this did not work for you keep in mind that you must be an administrator on the remote machine, and Remote Management must be enabled.

> Finally, let's feed a list of server names and create a single HTML file. Create a file named 'serverlist.txt' with one system per line.

```
wmic /node:@serverlist.txt /output:c:\temp\qfe_serverlist.html QFE GET  
CSName,HotFixId,Description /format:htable
```

That's it. You should have a table similar to this.

Node	CSName	Description	HotFixID
vmm2008r2-03	VMM2008R2-03	Security Update	KB958690
vmm2008r2-03	VMM2008R2-03	Update	KB962921
vmm2008r2-03	VMM2008R2-03	Security Update	KB963027
vmm2008r2-03	VMM2008R2-03	Update	KB967062
vmm2008r2-03	VMM2008R2-03	Update	KB967355
vmm2008r2-03	VMM2008R2-03	Update	KB967540
vmm2008r2-03	VMM2008R2-03	Software Update	KBWUClient-SelfUpdate-Aux
vmm2008r2-03	VMM2008R2-03	Software Update	KBWUClient-SelfUpdate-Core
vmm2008r2-04	VMM2008R2-04	Security Update	KB958690
vmm2008r2-04	VMM2008R2-04	Update	KB962921
vmm2008r2-04	VMM2008R2-04	Security Update	KB963027
vmm2008r2-04	VMM2008R2-04	Update	KB967062
vmm2008r2-04	VMM2008R2-04	Update	KB967355
vmm2008r2-04	VMM2008R2-04	Update	KB967540
vmm2008r2-04	VMM2008R2-04	Software Update	KBWUClient-SelfUpdate-Aux
vmm2008r2-04	VMM2008R2-04	Software Update	KBWUClient-SelfUpdate-Core

Enjoy your new tools. Thanks for reading!

For further reference:

MSDN - WMI Command Line Tools

<http://msdn.microsoft.com/en-us/library/aa394531.aspx>

Comments



Anonymous 22 Apr 2009 6:40 AM

PingBack from <http://microsoft.linkedz.info/2009/04/21/are-all-of-my-servers-really-up-to-date/>



Wisefag 6 Jun 2009 3:51 AM

Some of the /format commands return a "Invalid XSL format (or) file name." under Windows 7 RC1.

Works fine on WinXP though, thanks for writing the post.



phat_gz 21 Dec 2010 11:37 AM

Hi there,

awesome first hints and steps to script individual Reports for installed updates.

Will try it out for comparing with an actual list of available HyperV/SCVMM-Updates.

Thanks a lot!



JB 24 Jun 2013 2:24 PM

this misses the windows malicious software removal tool (KB890830)

and some .NET updates (KB2836939, KB2836940, KB2836941)

- note that I also could not find KB890830 in a registry search, whereas I could find other KBs



hassan_sayed issa20014 25 Jul 2014 3:04 PM

thank you

