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> [New Windows Server updates cause DC boot loops, break Hyper-V](#)

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# New Windows Server updates cause DC boot loops, break Hyper-V

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By

January 12, 2022

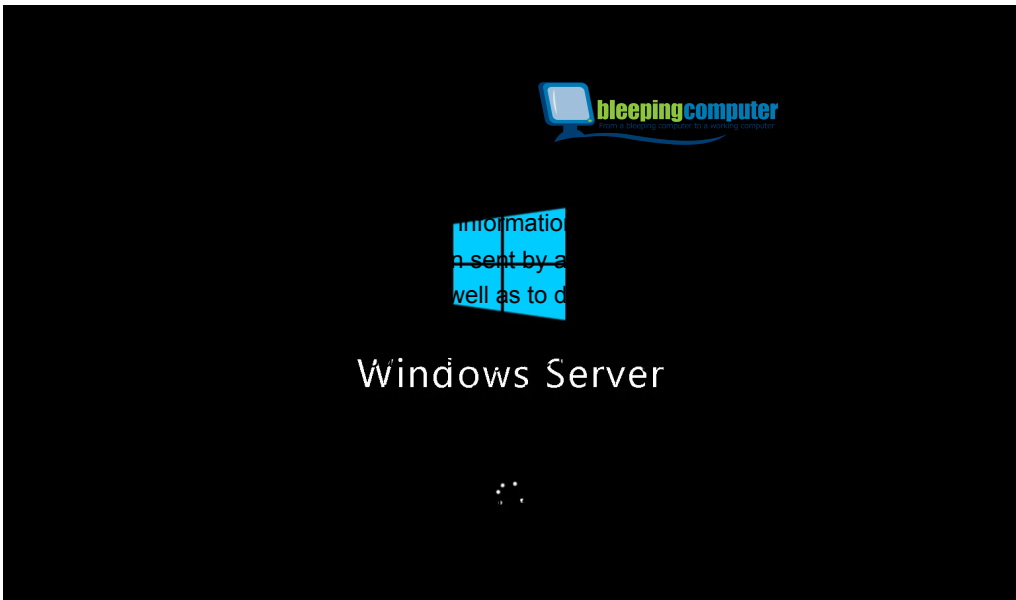
02:53 PM

39

**Lawrence Abrams**

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Update 1/17/21: Microsoft has released OOB updates  
(<https://www.bleepingcomputer.com/news/microsoft/microsoft-releases-emergency-fixes-for-windows-server-vpn-bugs/>) to fix the  
Windows Server bugs.

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The latest Windows Server updates are causing severe issues for administrators, with domain controllers having spontaneous reboots, Hyper-V not starting, and inaccessible ReFS volumes until the updates are rolled back

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Yesterday, Microsoft released the Windows Server 2012 R2 KB5009624 update, the Windows Server 2019 KB5009557 update, and the Windows Server 2022 KB5009555 update as part of the January 2022 Patch Tuesday  
(<https://www.bleepingcomputer.com/news/microsoft/microsoft-january-2022-patch-tuesday-fixes-6-zero-days-97-flaws/>).



Top Articles

Windows 11

([https://www.bleepingcomputer.com/news/microsoft/windows-11-kb5008353-cumulative-update-preview-released/?traffic\\_source=Connatix](https://www.bleepingcomputer.com/news/microsoft/windows-11-kb5008353-cumulative-update-preview-released/?traffic_source=Connatix))

READ MORE

Windows 11 KB5008353 Cumulative Update



After installing these updates, administrators have been battling multiple issues that are only resolved after removing the updates.

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## Windows domain controller boot loops

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The most serious issue introduced by these updates is that Windows domain controllers enter a boot loop, with servers getting into an endless cycle of Windows starting and then rebooting after a few minutes.

minutes, policy.

As first reported by BornCity

(<https://borncity.com/win/2022/01/12/windows-server-januar-2022-sicherheitsupdates-verursachen-boot-schleife/>), this issue affects all supported Windows Server versions.

"Looks KB5009557 (2019) and KB5009555 (2022) are causing something to fail on domain controllers, which then keep rebooting every few minutes," a user posted

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([https://www.reddit.com/r/sysadmin/comments/s21ae1/january\\_updates\\_causing\\_unexpected\\_reboots\\_on/](https://www.reddit.com/r/sysadmin/comments/s21ae1/january_updates_causing_unexpected_reboots_on/)) to Reddit.

A Windows Server administrator told BleepingComputer that they see the LSASS.exe process use all of the CPU on a server and then ultimately terminate.

As LSASS is a critical process required for Windows to operate correctly, the operating system will automatically restart when the process is terminated.

The following error will be logged to the event viewer when restarting due to a crashed LSASS process, as another user on Reddit

([https://www.reddit.com/r/sysadmin/comments/s21ae1/comment/hsectnh2/?](https://www.reddit.com/r/sysadmin/comments/s21ae1/comment/hsectnh2/?utm_source=share&utm_medium=web2x&context=3)

[utm\\_source=share&utm\\_medium=web2x&context=3](https://www.reddit.com/r/sysadmin/comments/s21ae1/comment/hsectnh2/?utm_source=share&utm_medium=web2x&context=3)) shared.

*"The process wininit.exe has initiated the restart of computer [computer\_name] on behalf of us for the following reason: No title for this reason could be found Reason Code: 0x50006 Shutdown Type: restart Comment: The system process*

*C:\WINDOWS\system32\lsass.exe terminated unexpectedly with status code -1073741819. The system will now shut down and restart."*

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In addition to the boot loops, BleepingComputer has been told by Windows administrators that after installing the patches, Hyper-V no longer starts on the server.

This bug primarily affects Windows Server 2012 R2 server, but other unverified reports say it affects newer versions of Windows Server.

As Hyper-V is not started, when attempting to launch a virtual machine, users will receive an error

([https://www.reddit.com/r/sysadmin/comments/s2407k/kb500962\\_4\\_breaks\\_hyperv/](https://www.reddit.com/r/sysadmin/comments/s2407k/kb500962_4_breaks_hyperv/)) stating the following:


*"Virtual machine xxx could not be started because the hypervisor is not running."*

Microsoft released security updates to fix four different Hyper-V vulnerabilities yesterday (CVE-2022-21901, CVE-2022-21900, CVE-2022-21905, and CVE-2022-21847), which are likely causing this issue.

## ReFS file systems are no longer accessible

Finally, numerous admins are reporting that Windows Resilient File System (ReFS) volumes are no longer accessible or are seen as RAW (unformatted) after installing the updates.

The Resilient File System (ReFS) is a Microsoft proprietary file system that has been designed for high availability, data recovery, and high performance for very large storage volumes.

"Installed these (<https://i.imgur.com/xoqUiEB.png>) updates tonight, in a two server Exchange 2016 CU22 DAG, running on Server 2012 R2. After a really long reboot, the server  came back up with all the ReFS volumes as RAW," explained

([https://www.reddit.com/r/exchangeserver/comments/s1y5pw/january\\_updates\\_refs\\_became\\_raw\\_for\\_database/](https://www.reddit.com/r/exchangeserver/comments/s1y5pw/january_updates_refs_became_raw_for_database/)) a Microsoft Exchange administrator on Reddit

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RTFS volumes attached were fine. I realize this is not exclusively an exchange question but it is impacting my ability to bring services for Exchange back online.

Uninstalling the Windows Server updates made the ReFS volumes accessible again.

Yesterday, Microsoft fixed seven remote code execution vulnerabilities in ReFS, with one or more likely behind the inaccessible ReFS volumes.

These vulnerabilities are tracked as ~~CVE-2022-1961, CVE-2022-21959, CVE-2022-21958, CVE-2022-21960, CVE-2022-21963, CVE-2022-21892, CVE-2022-21962, CVE-2022-21928.~~ [MORE OPTIONS](#)

## How to fix?

Unfortunately, the only way to fix these issues is to uninstall the corresponding cumulative update for your Windows version.

Admins can do this by using one of the following commands:

```
Windows Server 2012 R2: wusa /uninstall /kb:KB5009624
Windows Server 2019: wusa /uninstall /kb:KB5009557
Windows Server 2022: wusa /uninstall /kb:KB5009555
```

As Microsoft bundles all security fixes into the single update, removing the cumulative update may fix the bugs, but will also remove all fixes for recently patched vulnerabilities.

Therefore, uninstalling these updates should only be done if absolutely necessary.

Not to be outdone by Windows Server, Windows 10 and Windows 11's updates are also breaking L2TP VPN connections

(<https://www.bleepingcomputer.com/news/microsoft/new-windows-kb5009543-kb5009566-updates-break-l2tp-vpn-connections/>).

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On January 17th, Microsoft released out-of-band updates to fix the following issues:

- Windows L2TP VPN connection issues
- Domain controller reboots
- Hyper-V not starting
- ReFS volumes becoming inaccessible

More information about these updates can be found in our dedicated

"Microsoft releases emergency fixes for Windows Server, VPN bugs

(<https://www.bleepingcomputer.com/news/microsoft/microsoft-releases-emergency-fixes-for-windows-server-vpn-bugs/>)" article.

[Update 1/17/21: Added information about the OOB updates released to fix these issues.](#)

## Related Articles:

Microsoft resumes rollout of January Windows Server updates

(<https://www.bleepingcomputer.com/news/microsoft/microsoft-resumes-rollout-of-january-windows-server-updates/>)

Windows Server 2019 OOB update fixes reboots, Hyper-V, ReFS bugs

(<https://www.bleepingcomputer.com/news/microsoft/windows-server-2019-oob-update-fixes-reboots-hyper-v-refs-bugs/>)

Microsoft pulls new Windows Server updates due to critical bugs

(<https://www.bleepingcomputer.com/news/microsoft/microsoft-pulls-new-windows-server-updates-due-to-critical-bugs/>)

Microsoft January 2022 Patch Tuesday fixes 6 zero-days, 97 flaws

(<https://www.bleepingcomputer.com/news/microsoft/microsoft-january-2022-patch-tuesday-fixes-6-zero-days-97-flaws/>)

Microsoft Defender Log4j scanner triggers false positive alerts

(<https://www.bleepingcomputer.com/news/microsoft/microsoft-defender-log4j-scanner-triggers-false-positive-alerts/>)



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**WINDOWS SERVER (HTTPS://WWW.BLEEPINGCOMPUTER.COM/TAG/WINDOWS-SERVER/)**

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(https://www.bleepingcomputer.com/author/lawrence-abrams/) **MORE OPTIONS**

### LAWRENCE ABRAMS

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**(HTTPS://TWITTER.COM/LAWRENCEABRAMS)**

Lawrence Abrams is the owner and Editor in Chief of BleepingComputer.com. Lawrence's area of expertise includes Windows, malware removal, and computer forensics. Lawrence Abrams is a co-author of the Winternals Defragmentation, Recovery, and Administration Field Guide and the technical editor for Rootkits for Dummies.

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HACKING-GROUP-TO-

OWS-11/)



**sonic111**

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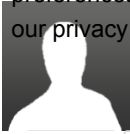
(<https://www.bleepingcomputer.com/forums/u/1234706/sonic111/>)

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**I can also confirm that Windows Server 2012**

KB5009586 also causes the same issue and that uninstalling the update fixes it.

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**gleep52**

(<https://www.bleepingcomputer.com/forums/u/1234713/gleep52/>)

- 1 week ago

AGREE

Hyper-V working fine on my 2016 Cluster.

MORE OPTIONS

DCs on 2019 haven't crashed. LSASS using maybe 0-1% CPU.

VPN is dead on all systems. :(

Microsoft - are you trying to one-up Log4J work?

**dparmentier**

(<https://www.bleepingcomputer.com/forums/u/1194031/dparmentier/>)

- 1 week ago

Can we also send Microsoft an invoice for additional hourly services ?

It is definitely no longer reliable... :-(

**is149au**

(<https://www.bleepingcomputer.com/forums/u/1218040/is149au/>)

- 1 week ago

Also wrecks Exchange 2013. Uninstalling KB5009624 fixed the issue though.



**gleep52**  
(<https://www.bleepingcomputer.com/forums/u/1234713/gleep52/>)  
- 1 week ago



**We value your privacy**  
What was the bug with Exchange? I have an exchange 2013 CU23 and it doesn't seem to be having issues? Would the services not start, or something specific?

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**Zury**  
(<https://www.bleepingcomputer.com/forums/u/1214420/zury/>)  
- 1 week ago

Are these core Hyper-V installs or windows installs with Hyper-V?

We are running about 40 hyper-v core servers (2016 and 2019) - haven't patched them yet :P

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**troyv808**  
(<https://www.bleepingcomputer.com/forums/u/1234729/troyv808/>)  
- 1 week ago

[MORE OPTIONS](#)

This drove me crazy last night, I thought we had hardware failure, check the BIOS and everything else and sure enough after I removed the patches, everything works - can start the Servers on VM again.

BTW - you're the first to report this - I googled last night and this morning and couldn't anything about this!

**NoneRain**  
(<https://www.bleepingcomputer.com/forums/u/1112107/nonerain/>)  
- 1 week ago

Some places where you can see earlier reports from admins:  
Reddit /r/sysadmin  
Spiceworks:  
<https://community.spiceworks.com/windows/microsoft-windows-server>  
(<https://community.spiceworks.com/windows/microsoft-windows-server>)

**Trevez**

(<https://www.bleepingcomputer.com/forums/u/1234744/trevez/>)

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seem to boot every 15 mins. So you uninstall as per this advice and it boots during the uninstall ( - completely borked DC!) Suggest you boot into safe mode to uninstall. Ours doesn't seem to boot in safe mode. Either that or stop the net logon service as I just read on reddit. I think safe mode "safer" : - )

Update: Oh great now the update wont uninstall! :- ( tried many different methods, after reboot get the error "we couldnt complete the updates, undoing changes"

Ticket for MS on the way..

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**Michiel1981**

MORE OPTIONS

(<https://www.bleepingcomputer.com/forums/u/1234782/michiel1981/>)

- 1 week ago

Hey man,

The issue of reboots only happens if 2 or more DC's have the update installed. Just turn off 1 dc or boot it into safemode without networking and the other DC stops rebooting. Then you have atleast 1 DC up for people to continue work and you have time to uninstall the patches.

I had the same thing happen on 2012R2 and when i was in safe mode with 1 dc trying to uninstall the patch the other DC stopped rebooting. When i fired up the rolled back DC the other DC with the update kept running fine. Offcourse i did uninstall the update anyway on it.

**rekingus**

(<https://www.bleepingcomputer.com/forums/u/1234895/rekingus/>)

- 1 week ago

Yes!

**Sprid**

(<https://www.bleepingcomputer.com/forums/u/1234902/sprid/>)

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**Lawrence Abrams**

(<https://www.bleepingcomputer.com/author/lawrence-abrams/>)

- 1 week ago

Seriously? Unplugging the network cable stops the reboots?

**Tjackson**

(<https://www.bleepingcomputer.com/forums/u/1235169/tjackson/>)

- 1 week ago

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yup unplugging (or disabling) works. stops rebooting with enough time to uninstall.

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**mbeckwith**

(<https://www.bleepingcomputer.com/forums/u/1234987/mbeckwith/>)

- 1 week ago

I have instructions in the comments below about how to remove it when it won't uninstall. Had the same problem and had to call Microsoft. Use command line >Dism

**unclebloodyfester**

(<https://www.bleepingcomputer.com/forums/u/788741/unclebloodyfester/>)

- 1 week ago



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Just had it here - takes a good while to uninstall ( 20 + minutes) and the issue is not fixed until you reboot after removing the patches which is where it sits or 'working on updates' but as soon as it has rebooted and got to that screen, the server is to all intents and purposes operational.

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KB5009557 for 2019

KB5009624 for 2012

KB5009546 for 2016

AGREE

Although it seems that 2019 and 2012 were the ones that hated it the most. Was wondering what the occasional increase in server whine was whilst i was drinking coffee - 2019 and 2012 servers doing alternate reboots.

Removed all three from all affected servers just in case .

**QuangoUK**

(<https://www.bleepingcomputer.com/forums/u/1234813/quangouk/>)

- 1 week ago

One of our HyperV server 2012 hosts stopped running HyperV yesterday - a day lost trying to figure out why, then moving the VMs to a different machine. Thanks MS

**rebirth13**

(<https://www.bleepingcomputer.com/forums/u/1234814/rebirth13/>)

- 1 week ago

Thanks for this. Good info.

**chromeskull**

(<https://www.bleepingcomputer.com/forums/u/1234821/chromeskull/>)

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News & Interests I was able to uninstall KB5009557

and it did not install as well as to still waiting on a restart but

at least now it's to remove the update.

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our privacy policy.

**Matt64**

(<https://www.bleepingcomputer.com/forums/u/1232319/matt64/>)

- 1 week ago

Thanks for this info

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**Dorwin6**

(<https://www.bleepingcomputer.com/forums/u/1234879/dorwin6/>)

- 1 week ago

The moment you first logon.

1. Immediately run command prompt, right click, run as administrator (just incase)
2. type in "net stop netlogon" (shows The Netlogon service was stopped successfully.)
3. Program and Features
4. Select Uninstall (click on Security Update for Microsoft Windows (KB5009557)
5. You must restart your computer to apply these changes (click Restart Later)
6. Select Uninstall (click Update for Microsoft Windows (KB5008873)
7. You must restart your computer to apply these changes (click Restart Now)

Reboots and Walla.

**wwonka72**

(<https://www.bleepingcomputer.com/forums/u/1234972/wwonka72/>)

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#### I uninstalled the update KB5009586 on my Windows

#### 2012 servers - but they continue to reboot, any ideas?

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**mbeckwith**

(<https://www.bleepingcomputer.com/forums/u/1234987/mbeckwith/>)

- 1 week ago

Are you sure it actually uninstalled? I uninstalled

it multiple times and it kept reverting. After a very long day, I was able to uninstall the package the following way:

Using Admin powershell (not in safe mode, so you must be quick)

Look up all packages using `>dism /online /get-packages`

Find the correct package and copy the entire name of the package name by highlighting the name and right-clicking on the window bar  
`>edit>copy`

Type `> dism /online /remove-package /packagename:PASTE FROM TITLE BAR FULL NAME OF PACKAGE THAT YOU COPIED`

This will remove the update even when add/remove and the wusa command will not.

**jbruns2022**

(<https://www.bleepingcomputer.com/forums/u/1234889/jbruns2022/>)

- 1 week ago

This is a sample for 2012 but just change the fix number on line 4.

1. Logon to server with RDP (assumes admin rights)
2. Open powershell (run these commands copy/paste)

```
stop-service netlogon -force
$package = dism /online /get-packages | findstr
5009619 | foreach -split(",") | foreach
{$_}
dism /online /remove-package
/packagename:$package
```



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3. It will prompt you if you want to restart computer now, provide Y

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Uninstall KB5009624

**abdielhiram**

(<https://www.bleepingcomputer.com/forums/u/1235093/abdielhiram/>)

- 1 week ago

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Were having a hard time rebooting in Safe Mode (2K19 DC's) unplugged the NIC allowed to uninstall the update.

**lucasnooker**

(<https://www.bleepingcomputer.com/forums/u/1235099/lucasnooker/>)

- 1 week ago

Hi,

I'm wondering if anyone can help/advise me please? I have had issues with this since the update and now have been unable to remote in to any of the vm's on the hosts. I am unable to uninstall the update as I can't access the OS's. What is the best course of action from here in order to solve this issue? I have rebooted the hosts but they seem to be inaccessible whatever I do. I can ping some of them but not others but can't manage to establish a secure connection anymore...

**mbeckwith**

(<https://www.bleepingcomputer.com/forums/u/1234987/mbeckwith/>)

- 1 week ago



have you tried going to the hyper v console and using connect rather than using remote desktop?



**DarkLog**

(<https://www.bleepingcomputer.com/forums/u/1235113/darklog/>)

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I was just experimenting with this, and installed it on a

RODC in a lab, so far on the Server 2022 RODC it's not

causing a boot loop.

I manually downloaded KB500955 from the update catalog, and installed it.

After the reboot I checked update history and it shows as "Failed to install - 0xc1900401", but if I try to install again it shows already installed, and it is in the list of updates in the uninstall updates menu.

AGREE

So I'm wondering does the issue maybe not impact RODC's? Or has MS done something to the update without notice?

**Tjackson**

(<https://www.bleepingcomputer.com/forums/u/1235169/tjackson/>)

- 1 week ago

For those of you fighting with having enough time to get the update uninstalled. I was able to remove the NIC from HyperV settings and then i had all the time i needed to remove the update. just re add the nic once youre done.

**bitanalyst**

(<https://www.bleepingcomputer.com/forums/u/1235246/bitanalyst/>)

- 1 week ago



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**I have a Server 2016 RODC that is still experiencing this**

**reboot loop even after removing all of the January**

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**patches. It's running on Hyper-V, disabling networking**

**keeps the machine running but as soon as networking is**

**turned on it reboots again due to lsass.exe**

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**Cazualfilth**

(<https://www.bleepingcomputer.com/forums/u/1235287/cazualfilth/>)

- 1 week ago

Server 2016 can be included in the list - KB5009546

I work for a gov agency that has a number of large

domains and DCs all running 2016 OS. While not all our

DCs were impacted by the reboot loop our busiest DCs in

regards to lsass were impacted severely after patching.

Removal of patch has stopped the reboots. Not ideal but

there it is.

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**petrolej**

(<https://www.bleepingcomputer.com/forums/u/1235312/petrolej/>)

- 1 week ago

Hi folks, also having troubles with this. I was able to

disconnect LAN from a VM with DC. This prevents the

DC to reboot but then I am unable to login. The server

says incorrect password or username. Does anyone have

experience with this? Thanks.

**CompKing**

(<https://www.bleepingcomputer.com/forums/u/1235501/compking/>)

- 1 week ago



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Simple fix, but too a while to implement.. Ugh.

Anyone have any good sources of info for critical things such as this to be sent to you so you don't make this mistake again? Good source of Server concerns?

AGREE

**gleep52**

(<https://www.bleepingcomputer.com/forums/u/1234713/gleep52/>)

- 1 week ago

Yes - you're on THEE site for it :) Bleeping computer is awesome - I follow them on telegram for updates so I get push notifications.

**rinatin**

(<https://www.bleepingcomputer.com/forums/u/1235550/rinatin/>)

- 1 week ago

Microsoft lists KB5009619 AND KB5009586 as both causing reboots on 2012 Hyper-V domain controllers.

**Lawrence Abrams**

(<https://www.bleepingcomputer.com/author/lawrence-abrams/>) - 1 week ago



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#### Microsoft has released OOB updates that claim to fix these bugs

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#### <https://www.bleepingcomputer.com/news/microsoft/microsoft-releases-emergency-fixes-for-windows-server-vpn-bugs/>

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[microsoft-releases-emergency-fixes-for-windows-server-vpn-bugs/](https://www.bleepingcomputer.com/news/microsoft/microsoft-releases-emergency-fixes-for-windows-server-vpn-bugs/))

If you can let us know in the above article if the updates fix the issues, it would be appreciated.

AGREE

**sc2111**

(<https://www.bleepingcomputer.com/forums/u/1150605/sc2111/>)

- 1 week ago

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Does anyone, as we are, have had the same issue with windows server 2016 ?

**HARIOMSAI7**

(<https://www.bleepingcomputer.com/forums/u/1180919/hariomsai7/>)

- 1 day ago

```
wmic qfe | find "5009624"
:: Windows Server 2012 R2:
wusa /uninstall /kb:5009624
:: Windows Server 2019:
wmic qfe | find "5009557"
wusa /uninstall /kb:5009557
:: Windows Server 2022:
wmic qfe | find "5009555"
wusa /uninstall /kb:5009555
```

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(<https://www.bleepingcomputer.com/news/security/linux-system-service-bug-gives-root-on-all-major-distros-exploit-released/>)

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