Rules of the road for safe patching

Monthly **security patches** ship on the **second Tuesday** of each month (Patch Tuesday).

For all versions of Windows, **defer them for at least 15 days**. That should give Microsoft time to identify and fix any significant oopses.

The exception is the rare urgent threat — in which case, we'll tell you to install an update sooner than later. (Check out our AskWoody.com posts on the days following Patch Tuesday.)
Another exception: Security patches may also contain nonsecurity fixes. In some cases, you might want to install a security update sooner when it includes a feature fix you really need.

Microsoft also sends out **preview updates,** typically on the **third Tuesday** of each month. They are completely optional, and we recommend skipping them. We will list them in the next Patch Watch column following their release because Microsoft typically doesn't label them as previews (bad dog!).

Updates can be deferred on Window 10 Pro and above. If you're running Win10 Home, we recommend upgrading to Pro.

Ensure that **Windows 7's** patch-update setting are set to download or check for updates, but **don't automatically install them.** It's your best defense against problematic patches.

Other rules

Never install hardware drivers -- unless you get them from the computer's manufacturer

Never install an update to a newer version of .NET. Let your applications set the .NET versions they need

Version 1903

Sheet updated: 7/26/2019

>>>> Should be installed as of July 26th

Known issues page: https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1903

Notes: 1) Test only at this time, do not install on production machines.

2) If you do not see deferral options, you may need to use group policy editor to defer quality updates

See: https://www.thewindowsclub.com/set-period-defer-upgrades-updates-windows-10

3) Set quality update to defer for at least 15 days.

	PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
	4505903	43672.00	Optional	Don't install in Ent if you use MIT Kerberos realms	Preview	Not pushed out automatically
>>>>	4509096	7/9/2019	Install		Servicing stack	
>>>>	4506991	7/9/2019	Install		Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10 Version 1903	
>>>>	4507543	7/9/2019	Install		July update	Windows sandbox may not start if you changed OS language
	4501375	6/27/2019	Optional		Preview	Not pushed out automatically
	4506933	6/27/2019	Conditional		Servicing-stack update	Install now only if you install the above preview update
	4503308	6/11/2019	Defer		Monthly Adobe Flash update	
	4503293	6/11/2019	Defer		June update	Windows sandbox may not start if you changed OS language
	4497935	5/29/2019	Optional		Preview	Not pushed out automatically
	4495620	5/14/2019	Install		.NET 4.8 security update	

Version 1809/Server 2019

Sheet updated: 7/26/2019

>>>> Should be installed as of July 26th

Known issues page: https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1809-and-windows-server-2019

Notes: 1) I don't recommend installing .NET 4.8 unless your line-of-business product needs it

2) Servicing-stack updates are generally mandatory

3) Set quality update to defer for at least 15 days.

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4505658	43668.00	Defer	Don't install in Ent if you use MIT Kerberos realms	Preview update	
>>>> 4509095	7/9/2019	Install		Servicing stack update	Fixes issues with bitlocker and secure boot
>>>> 4506998	7/9/2019	Install		Cumulative Update for .NET Framework 3.5 and 4.7.2	
>>>> 4506990	7/9/2019	Install	Need if 4.8 installed	Cumulative Update for .NET Framework 3.5 and 4.8	
>>>> 4507469	7/9/2019	Install		Win10 cumulative update	
4501371	6/18/2019	Defer		Preview update	Fixes issues with Bluetooth pairing
4504369	6/11/2019	Installed		Servicing Stack	Will be installed automatically if you use Windows update
4503308	6/11/2019	Installed		Monthly Adobe Flash update	
4503327	6/11/2019	Install		Win10 cumulative update	May have issues printing from Edge
4499728	5/14/2019	Mandatory		Servicing Stack	Will be installed automatically if you use Windows update
4497934	5/21/2019	Optional		Preview update	
4505056	5/19/2019	Optional		Fix for UK-sites issue	
4494441	5/14/2019	Installed		Win10 cumulative update	Has issues with UK sites
4497932	5/14/2019	Installed		Montly Adobe Flash update	
4495590	5/14/2019	Installed		.NET 4.7.2 and 3.5 update	
4495618	5/14/2019	Optional		.NET 4.8	Install only if needed
4493509	4/9/2019	Installed	Several, none appear to be deal breakers at this time	Windows 10 1809 and Server 2019	Various issues

Version 1809/Server 2019

Sheet updated: 7/26/2019

>>>> Should be installed as of July 26th

Known issues page: https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1809-and-windows-server-2019

Notes: 1) I don't recommend installing .NET 4.8 unless your line-of-business product needs it

2) Servicing-stack updates are generally mandatory

3) Set quality update to defer for at least 15 days.

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4490480	4/9/2019	Installed		Windows 1809 compat	Compat issues to upgrade to 1903
4493510	4/9/2019	Installed		1809 Servicing stack update	Fixing device drivers may not properly load
4493478	4/9/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4489899	3/12/2019	Installed		Windows 10 1809 and Server 2019	Several, none appear to be deal breakers at this time
4482887	3/1/2019	Optional		Fixes Access 95 issues	Fixes Access 95 issues
4489907	3/12/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4487044	2/12/2019	Installed		Windows 10 1809 and Server 2019	Applications that use a Microsoft Jet database with the Microsoft Access 95 file format may randomly stop working. And after installing this update, Internet Explorer may fail to load images with a backslash (\) in their relative source path.
4487038	2/12/2019	Installed	Yes	Adobe Flash	Security
4476976	1/22/2019	Optional		Win10 Preview	Fixes issues with Access – hold for now
4480116	1/8/2019	Installed		Win10 Update	Bug in edge – you may not notice it. I've not seen issues
4480979	1/8/2019	Installed	Not security	Flash update	Bug fix only

Version 1803

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4507466	7/16/2019	Defer	Don't install in Ent if you use MIT Kerberos realms	Win10 cumulative update	Preview update
4509094	7/9/2019	Install		Servicing stack	
4506989	7/9/2019	Install	Need if 4.8 installed	Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1803	
4507435	7/9/2019	Install		Win10 cumulative update	
4503288	6/18/2019	Defer	Preview update	Win10 cumulative update	If you get a black screen on boot, To mitigate this issue, press Ctrl+Alt+Delete, then select the Power button in the lower right corner of the screen and select Restart. Your device should now restart normally.
4503308	6/11/2019	Install		Monthly Adobe Flash update	
4503286	6/11/2019	Install		Win10 cumulative update	Enterprise-only bug: Renaming issues on Cluster volumes
4499183	5/21/2019	Optional		Win10 Preview	Won't be pushed to workstations.
4505064	5/19/2019	Optional		Win10 update	Fixes issues with UK sites
4497398	5/14/2019	Mandatory		Servicing Stack	Will be installed automatically if you use Windows update
4499167	5/14/2019	Installed		Win10 cumulative update	Has issues with UK sites
4497932	5/14/2019	Installed		Monthly Adobe Flash update	
4495616	May 2019	Optional		.NET 4.8 security update	Install only if needed

Version 1803

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4493437	4/25/2019	Optional		Win10 Preview	Japanese era fixes
4493464	4/9/2019	Installed		Win10 update	Several, none appear to be deal breakers at this time
4493478	4/9/2019	Installed		Monthly Adobe Flash Player update	Flash security patch
4489894	3/19/2019	Optional		Win10 Preview	Fixes several issues including "Stop 0x133" in NTFS.sys
4489868	3/12/2019	Installed		Win10 update	Several, none appear to be deal breakers at this time
4489907	3/12/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4487029	2/19/2019	Optional		Win10 Preview	Fixes Access 95 issues
4487017	2/12/2019	Installed		Win10 update	Same as above
4487038	2/12/2019	Installed	Yes	Adobe Flash	Security
4480976	1/15/2019	Optional		Win10 Preview	Bug in edge – you may not notice it. I've not seen issues
4480966	1/8/2019	Installed		Win10 update	Bug in edge – you may not notice it. I've not seen issues
4480979	1/8/2019	Installed	Not security	Flash update	Bug fix only

Version 1709

Sheet updated: 7/26/2019

>>>> Should be installed as of July 26th

Known issues page: https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1709

Notes: 1) I don't recommend installing .NET 4.8 unless your line-of-business product needs it

2) Servicing-stack updates are generally mandatory

3) Set quality update to defer for at least 15 days.

4) Final WU updates were on April 2019, should be used only in businesses that do not use Windows Update

5) You should be actively testing 1903.

	PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
	4507465	7/16/2019	Defer	Don't install in Ent if you use MIT Kerberos realms	Win10 cumulative update	Preview update
>>>>	4509093	7/9/2019	Install		Servicing stack	
>>>>	4506988	7/9/2019	Install	Need if 4.8 installed	Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1709	
>>>>	4507455	7/9/2019	Install		Win10 cumulative update	
	4503281	6/19/2019	Defer	Preview update	Win10 cumulative update	
	4503308	6/11/2019	Install		Monthly Adobe Flash update	Normal flash update
	4503284	6/11/2019	Install		Win10 cumulative update	Enterpris- only bug: Renaming issues on Cluster volumes
	4499147	5/28/2019	Optional		Win10 Preview	Won't be pushed to workstations.
	4505062	5/19/2019	Optional		Win10 Update	Fixing issues with UK sites
	4500641	5/14/2019	Mandatory		Servicing -stack	Will be installed automatically if you use Windows update
	4499179	5/14/2019	Installed		Win10 cumulative update	Has issues with UK sites
	4497932	5/14/2019	Installed		Monthly Adobe Flash update	
	4495613	5/14/2019	Optional		.NET 4.8 security update	Do not install unless needed
	4493440	4/25/2019	Optional		Win10 Preview	Japanese era fixes
	4493441	4/9/2019	Installed		Win10 Update	Several, none appear to be deal breakers at this time
	4493478	4/9/2019	Installed		Monthly Adobe Flash Player update	Flash security patch

Version 1709

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4489890	3/19/2019	Optional		Win10 Preview	Fixes several issues including "Stop 0x133" in NTFS.sys
4489886	3/12/2019	Installed		Win10 Update	Several, none appear to be deal breakers at this time
4489907	3/12/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4487021	2/19/2019	Optional		Fixes Access 95 issues	Fixes Access 95 issues
4486996	2/12/2019	Installed	Ok if you don't have /	Same as above	Same as above
4487038	2/12/2019	Installed	Yes	Adobe Flash	Security
4480967	1/15/2019	Optional		Win10 Preview	Bug in edge – you may not notice it. I've not seen issues
4480978	1/8/2019	Installed		Win10 Update	Bug in edge – you may not notice it. I've not seen issues
4480979	1/8/2019	Installed	Not security	Flash update	Bug fix only

Version 1703

	PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
	4507467	7/16/2019	Defer	Preview update	Win10 cumulative update	
>>>>	4509092	7/9/2019	Install		Servicing stack	
>>>>	4506987	7/9/2019	Install		Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1703	
>>>>	4507450	7/9/2019	Install		Win10 cumulative update	
	4503289	6/18/2019	Defer	Preview update	Win10 cumulative update	
	4503308	6/11/2019	Install		Monthly Adobe Flash update	
	4503279	6/11/2019	Install		Win10 cumulative update	Enterprise-only bug: Renaming issues on Cluster volumes
	4499162	5/28/2019	Optional		Win10 Preview	
	4505055	5/19/2019	Optional		Win10 update	Fixing issues with UK sites
	4500640	5/14/2019	Mandatory		Servicing-stack update	Will be installed automatically if you use Windows update
	4499181	5/14/2019	Installed		Win10 cumulative update	Has issues with UK sites
	4497932	5/14/2019	Installed		Monthly Adobe Flash update	
	4495611	5/14/2019	Optional		.NET 4.8 security update	Don't install unless needed
	4493436	4/25/2019	Optional		Win10 Preview	Japanese era
	4493474	4/9/2019	Installed		Win10 update	Several, none appear to be deal breakers at this time
	4493478	4/9/2019	Installed		Monthly Adobe Flash Player update	Flash security patch
	4489888	3/19/2019	Optional		Win10 Preview	Fixes several issues including "Stop 0x133" in NTFS.sys

Version 1703

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4489871	3/12/2019	Installed		Win10 update	Several, none appear to be deal breakers at this time
4489907	3/12/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4487011	2/19/2019	Optional		Win10 Preview	Fixes Access 95 issues
4487020	2/12/2019	Installed		Win10 update	Same as above
4487038	2/12/2019	Installed	Yes	Adobe Flash	Security
4480959	1/15/2019	Optional		Win10 Preview	Bug in edge – you may not notice it. I've not seen issues
4018124	1/8/2019	Installed		Win10 update	Bug in edge – you may not notice it. I've not seen issues
4480979	1/8/2019	Installed	Not security	Flash update	Bug fix only

Sheet updated:		7/26/2019				
>>>>		Should be installed as of July 26th				
Known issues page:		https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1607-and-windows-server-2016				
Notes:		1) I don't recommend installing .NET 4.8 unless your line-of-business product needs it				
		2) Servicing-stack updates are generally mandatory				
		3) Set quality update to defer for at least 15 days.				
		4) This version no longer receives patches via Window Update				
		5) You should be actively testing 1903.				

	PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
	4507467	7/16/2019	Defer	Preview update	Windows 10 cumulative update	
>>>>	4509091	7/9/2019	Install		Servicing stack	
>>>>	4506986	7/9/2019	Install		Cumulative Update for .NET Framework 4.8 for Windows 10 Version 1607	
>>>>	4507460	7/9/2019	Install		Windows 10 cumulative update	
	4503294	6/18/2019	Defer	Preview update	Windows 10 cumulative update	
	4503537	6/11/2019	Install		Servicing -stack update	Will be installed automatically if you use Windows update
	4503308	6/11/2019	Install		Monthly Adobe Flash Player update	
	4503267	6/11/2019	Install		Windows 10 1607 June update	Issues with Bitlocker: (More info)
	4499177	5/23/2019	Optional		Win10 Preview update	Won't be pushed to workstations.
	4505052	5/19/2019	Optional		Windows 10 1703	Fixes issues with UK sites
	4498947	5/14/2019	Mandatory		Servicing Stack	Will be installed automatically if you use Windows update
	4494440	5/14/2019	Installed		Windows 10 1703	Has issues with UK sites
	4497932	5/14/2019	Installed		Monthly Adobe Flash Player update	Normal flash update
	4495610	5/14/2019	Optional		.NET 4.8 security update	Install only if needed
	4493473	4/25/2019	Optional		Win10 Preview update	Japanese era
	4493470	4/9/2019	Installed		Windows 10 1703	Several, none appear to be deal breakers at this time
	4493478	4/9/2019	Installed		Monthly Adobe Flash Player update	Flash security patch
	4489889	3/19/2019	Optional		Win10 Preview update	Fixes several issues including "Stop 0x133" in NTFS.sys
	4489882	3/12/2019	Installed		Windows 10 1703	Several, none appear to be deal breakers at this time

Version 1607 (and Server 2016)

Sheet updated: 7/26/2019

>>>> Should be installed as of July 26th

Known issues page: https://docs.microsoft.com/en-us/windows/release-information/status-windows-10-1607-and-windows-server-2016

Notes: 1) I don't recommend installing .NET 4.8 unless your line-of-business product needs it

2) Servicing-stack updates are generally mandatory

3) Set quality update to defer for at least 15 days.

4) This version no longer receives patches via Window Update

5) You should be actively testing 1903.

PATCH NUMBER	RELEASE DATE	STATUS	SPECIAL NOTES	DESCRIPTION	INSTALL NOTES
4489907	3/12/2019	Installed	Install	Monthly Adobe Flash Player update	Flash security patch
4487006	2/19/2019	Optional		Win10 Preview update	Fixes Access 95 issues
4487026	2/12/2019	Installed		Windows 10 1703	May have bsod on vm hosts
4487038	2/12/2019	Installed	Yes	Adobe Flash	Security
4480977	1/17/2019	Optional		Win10 Preview update	Bug in edge – you may not notice it. I've not seen issues
4480961	1/8/2019	Installed		Windows 10 1703	Bug in edge – you may not notice it. I've not seen issues
4480979	1/8/2019	Installed	Not security	Flash update	Bug fix only