

KMS client setup keys

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Applies to: Windows Server 2019, Windows Server Semi-Annual Channel, Windows Server 2016, Windows 10

Computers that are running volume licensed editions of Windows Server, Windows 10, Windows 8.1, Windows Server 2012 R2, Windows 8, Windows Server 2012, Windows 7, Windows Server 2008 R2, Windows Vista, and Windows Server 2008 are, by default, KMS clients with no additional configuration needed.

ⓘ Note

In the tables that follow, "LTSC" stands for "Long-Term Servicing Channel," while "LTSB" refers to the "Long-Term Servicing Branch."

To use the keys listed here (which are GVLKs), you must first have a KMS host running in your deployment. If you haven't already configured a KMS host, see [Deploy KMS Activation](#) for steps to set one up.

If you are converting a computer from a KMS host, MAK, or retail edition of Windows to a KMS client, install the applicable setup key (GVLK) from the following tables. To install a client setup key, open an administrative command

prompt on the client, type `slmgr /ipk <setup key>` and then press **Enter**.

If you want to...	...use these resources
Activate Windows outside of a volume-activation scenario (that is, you're trying to activate a retail version of Windows), these keys will not work .	Use these links for retail versions of Windows:
Fix this error that you get when you try to activate a Windows 8.1, Windows Server 2012 R2 or newer system: "Error: 0xC004F050 The Software Licensing Service reported that the product key is invalid"...	Install this update on the KMS host if it is running Windows 8.1, Windows Server 2012 R2, Windows 8, or Windows Server 2012.
• Get Windows 10 • Get a new Windows product key • Genuine Windows Help & How-to	

If you are running Windows Server 2008 R2 or Windows 7, be on the lookout for an update to support using those as KMS hosts for Windows 10 clients.

Windows Server Semi-Annual Channel versions

Windows Server, version 1909, version 1903, and version 1809

Operating system edition	KMS Client Setup Key
Windows Server Datacenter	6NMRW-2C8FM-D24W7-TQWMY-CWH2D
Windows Server Standard	N2KJX-J94YW-TQVFB-DG9YT-724CC

Windows Server LTSC/LTSB versions

Windows Server 2019

Operating system edition	KMS Client Setup Key
Windows Server 2019 Datacenter	WMDGN-G9PQG-XVVXX-R3X43-63DFG
Windows Server 2019 Standard	N69G4-B89J2-4G8F4-WWYCC-J464C
Windows Server 2019 Essentials	WVDHN-86M7X-466P6-VHXV7-YY726

Windows Server 2016

Operating system edition	KMS Client Setup Key
Windows Server 2016 Datacenter	CB7KF-BWN84-R7R2Y-793K2-8XDDG
Windows Server 2016 Standard	WC2BQ-8NRM3-FDDYY-2BFGV-KHKQY
Windows Server 2016 Essentials	JCKRF-N37P4-C2D82-9YXRT-4M63B

Windows 10, all supported Semi-Annual Channel versions

See the [Windows lifecycle fact sheet](#) for information about supported versions and end of service dates.

Operating system edition	KMS Client Setup Key
Windows 10 Pro	W269N-WFGWX-YVC9B-4J6C9-T83GX
Windows 10 Pro N	MH37W-N47XK-V7XM9-C7227-GCQG9

Operating system edition	KMS Client Setup Key
Windows 10 Pro for Workstations	NRG8B-VKK3Q-CXVCJ-9G2XF-6Q84J
Windows 10 Pro for Workstations N	9FNHH-K3HBT-3W4TD-6383H-6XYWF
Windows 10 Pro Education	6TP4R-GNPTD-KYYHQ-7B7DP-J447Y
Windows 10 Pro Education N	YVWGF-BXNMC-HTQYQ-CPQ99-66QFC
Windows 10 Education	NW6C2-QMPVW-D7KKK-3GKT6-VCFB2
Windows 10 Education N	2WH4N-8QGBV-H22JP-CT43Q-MDWWJ
Windows 10 Enterprise	NPPR9-FWDCX-D2C8J-H872K-2YT43
Windows 10 Enterprise N	DPH2V-TTNVB-4X9Q3-TJR4H-KHJW4
Windows 10 Enterprise G	YYVX9-NTFWV-6MDM3-9PT4T-4M68B
Windows 10 Enterprise G N	44RPN-FTY23-9VTTB-MP9BX-T84FV

Windows 10 LTSC/LTSB versions

Windows 10 LTSC 2019

Operating system edition	KMS Client Setup Key
Windows 10 Enterprise LTSC 2019	M7XTQ-FN8P6-TTKYV-9D4CC-J462D
Windows 10 Enterprise N LTSC 2019	92NFX-8DJQP-P6BBQ-THF9C-7CG2H

Windows 10 LTSB 2016

Operating system edition	KMS Client Setup Key
Windows 10 Enterprise LTSB 2016	DCPHK-NFMTC-H88MJ-PFHPY-QJ4BJ
Windows 10 Enterprise N LTSB 2016	QFFDN-GRT3P-VKWWX-X7T3R-8B639

Windows 10 LTSB 2015

Operating system edition	KMS Client Setup Key
Windows 10 Enterprise 2015 LTSB	WNMTR-4C88C-JK8YV-HQ7T2-76DF9
Windows 10 Enterprise 2015 LTSB N	2F77B-TNFGY-69QQF-B8YKP-D69TJ

Earlier versions of Windows Server

Windows Server, version 1803

Operating system edition	KMS Client Setup Key
Windows Server Datacenter	2HXDN-KRXHB-GPYC7-YCKFJ-7FVDG
Windows Server Standard	PTXN8-JFHJM-4WC78-MPCBR-9W4KR

Windows Server, version 1709

Operating system edition	KMS Client Setup Key
Windows Server Datacenter	6Y6KB-N82V8-D8CQV-23MJW-BWTG6
Windows Server Standard	DPCNP-XQFKJ-BJF7R-FRC8D-GF6G4

Windows Server 2012 R2

Operating system edition	KMS Client Setup Key
Windows Server 2012 R2 Server Standard	D2N9P-3P6X9-2R39C-7RTCD-MDVJX
Windows Server 2012 R2 Datacenter	W3GGN-FT8W3-Y4M27-J84CP-Q3VJ9
Windows Server 2012 R2 Essentials	KNC87-3J2TX-XB4WP-VCPJV-M4FWM

Windows Server 2012

Operating system edition	KMS Client Setup Key
Windows Server 2012	BN3D2-R7TKB-3YPBD-8DRP2-27GG4
Windows Server 2012 N	8N2M2-HWPGY-7PGT9-HGDD8-GVGGY
Windows Server 2012 Single Language	2WN2H-YGCQR-KFX6K-CD6TF-84YXQ
Windows Server 2012 Country Specific	4K36P-JN4VD-GDC6V-KDT89-DYFKP
Windows Server 2012 Server Standard	XC9B7-NBPP2-83J2H-RHMBY-92BT4
Windows Server 2012 MultiPoint Standard	HM7DN-YVMH3-46JC3-XYTG7-CYQJJ
Windows Server 2012 MultiPoint Premium	XNH6W-2V9GX-RGJ4K-Y8X6F-QGJ2G
Windows Server 2012 Datacenter	48HP8-DN98B-MYWDG-T2DCC-8W83P

Windows Server 2008 R2

Operating system edition	KMS Client Setup Key
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Operating system edition	KMS Client Setup Key
Windows Server 2008 R2 Web	6TPJF-RBVHG-WBW2R-86QPH-6RTM4
Windows Server 2008 R2 HPC edition	TT8MH-CG224-D3D7Q-498W2-9QCTX
Windows Server 2008 R2 Standard	YC6KT-GKW9T-YTKYR-T4X34-R7VHC
Windows Server 2008 R2 Enterprise	489J6-VHDMP-X63PK-3K798-CPX3Y
Windows Server 2008 R2 Datacenter	74YFP-3QFB3-KQT8W-PMXWJ-7M648
Windows Server 2008 R2 for Itanium-based Systems	GT63C-RJFQ3-4GMB6-BRFB9-CB83V

Windows Server 2008

Operating system edition	KMS Client Setup Key
Windows Web Server 2008	WYR28-R7TFJ-3X2YQ-YCY4H-M249D
Windows Server 2008 Standard	TM24T-X9RMF-VW XK6-X8JC9-BFGM2
Windows Server 2008 Standard without Hyper-V	W7VD6-7JFBR-RX26B-YKQ3Y-6FFFJ
Windows Server 2008 Enterprise	YQGMW-MPWTJ-34KDK-48M3W-X4Q6V
Windows Server 2008 Enterprise without	39BXF-X8Q23-P2WWT-38T2F-G3FPG

Operating system edition	KMS Client Setup Key
Hyper-V	
Windows Server 2008 HPC	RCTX3-KWVHP-BR6TB- RB6DM-6X7HP
Windows Server 2008 Datacenter	7M67G-PC374-GR742-YH8V4-TCBY3
Windows Server 2008 Datacenter without Hyper-V	22XQ2-VRXRG-P8D42-K34TD- G3QQC
Windows Server 2008 for Itanium-Based Systems	4DWFP-JF3DJ-B7DTH-78FJB-PDRHK

Earlier versions of Windows

Windows 8.1

Operating system edition	KMS Client Setup Key
Windows 8.1 Pro	GCRJD-8NW9H-F2CDX-CCM8D-9D6T9
Windows 8.1 Pro N	HMCNV-VVBFX-7HMBH-CTY9B-B4FX Y
Windows 8.1 Enterprise	MHF9N-XY6XB-WVXMC-BTDCT-MKKG7
Windows 8.1 Enterprise N	TT4HM-HN7YT-62K67-RGRQJ-JFFXW

Windows 8

Operating system edition	KMS Client Setup Key
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Operating system edition	KMS Client Setup Key
Windows 8 Pro	NG4HW-VH26C-733KW-K6F98-J8CK4
Windows 8 Pro N	XCVCF-2NXM9-723PB-MHCB7-2RYQQ
Windows 8 Enterprise	32JNW-9KQ84-P47T8-D8GGY-CWCK7
Windows 8 Enterprise N	JMNMF-RHW7P-DMY6X-RF3DR-X2BQT

Windows 7

Operating system edition	KMS Client Setup Key
Windows 7 Professional	FJ82H-XT6CR-J8D7P-XQJJ2-GPDD4
Windows 7 Professional N	MRPKT-YTG23-K7D7T-X2JMM-QY7MG
Windows 7 Professional E	W82YF-2Q76Y-63HXB-FGJG9-GF7QX
Windows 7 Enterprise	33PXH-7Y6KF-2VJC9-XBBR8-HVTHH
Windows 7 Enterprise N	YDRBP-3D83W-TY26F-D46B2-XCKRJ
Windows 7 Enterprise E	C29WB-22CC8-VJ326-GHFJW-H9DH4

See also

- [Plan for Volume Activation](#)

Is this page helpful?

 Yes

 No

