

Key Management Services (KMS) client activation and product keys

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To use KMS, you need to have a KMS host available on your local network. Computers that activate with a KMS host need to have a specific product key. This key is sometimes referred to as the KMS client key, but it's formally known as a Microsoft Generic Volume License Key (GVLK). Computers that are running volume licensing editions of Windows Server and Windows client are, by default, KMS clients with no extra configuration needed as the relevant GVLK is already there.

There are some scenarios, however, where you'll need to add the GVLK to the computer you wish to activate against a KMS host, such as:

- Converting a computer from using a Multiple Activation Key (MAK)
- Converting a retail license of Windows to a KMS client
- If the computer was previously a KMS host

Important

To use the keys listed here (which are GVLKs), you must first have a KMS host available on your local network. If you don't already have a KMS host, please see how to [create a KMS host](#) to learn more.

If you want to activate Windows without a KMS host available and outside of a volume-activation scenario (for example, you're trying to activate a retail version of Windows client), **these keys won't work**. You will need to use another method of activating Windows, such as using a MAK, or purchasing a retail license. Get help to [find your Windows product key](#) and learn about [genuine versions of Windows](#).

Install a product key

If you're converting a computer from a KMS host, MAK, or retail edition of Windows to a KMS client, install the applicable product key (GVLK) from the list in this article. To install a client product key, open an administrative command prompt on the client, and run the following command and then press `Enter`:

Windows Command Prompt

```
slmgr /ipk <product key>
```

For example, to install the product key for Windows Server 2022 Datacenter Edition, run the following command and then press **Enter**:

Windows Command Prompt

```
slmgr /ipk WX4NM-KYWYW-QJJR4-XV3QB-6VM33
```

Generic Volume License Keys

In the tables that follow, you'll find the GVLKs for each version and edition of Windows. LTSC is *Long-Term Servicing Channel*, while LTSB is *Long-Term Servicing Branch*.

Windows Server LTSC

Windows Server 2025

 Expand table

Operating system edition	KMS Client Product Key
Windows Server 2025 Standard	TVRH6-WHNVX-R9WG3-9XRFY-MY832
Windows Server 2025 Datacenter	D764K-2NDRG-47T6Q-P8T8W-YP6DF
Windows Server 2025 Datacenter: Azure Edition	XGN3F-F394H-FD2MY-PP6FD-8MCRC

Windows Server Semi-Annual Channel

Windows Server, versions 20H2, 2004, 1909, 1903, and 1809

 Expand table


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

Important

Windows Server, version 20H2 reached end of service on August 9, 2022 and is no longer receiving security updates. This includes the retirement of Windows Server Semi-Annual Channel (SAC) with no future releases.

Customers using Windows Server SAC should move to [Azure Stack HCI](#). Alternatively, customers may use the Long-Term Servicing Channel of Windows Server.

Windows 11 and Windows 10 Semi-Annual Channel

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

 Expand table

Operating system edition	KMS Client Product Key
Windows 11 Pro Windows 10 Pro	W269N-WFGWX-YVC9B-4J6C9-T83GX
Windows 11 Pro N Windows 10 Pro N	MH37W-N47XK-V7XM9-C7227-GCQG9
Windows 11 Pro for Workstations Windows 10 Pro for Workstations	NRG8B-VKK3Q-CXVCJ-9G2XF-6Q84J
Windows 11 Pro for Workstations N Windows 10 Pro for Workstations N	9FNHH-K3HBT-3W4TD-6383H-6XYWF
Windows 11 Pro Education Windows 10 Pro Education	6TP4R-GNPTD-KYYHQ-7B7DP-J447Y
Windows 11 Pro Education N Windows 10 Pro Education N	YVWGF-BXNMC-HTQYQ-CPQ99-66QFC
Windows 11 Education Windows 10 Education	NW6C2-QMPVW-D7KKK-3GKT6-VCFB2
Windows 11 Education N Windows 10 Education N	2WH4N-8QGBV-H22JP-CT43Q-MDWWJ
Windows 11 Enterprise Windows 10 Enterprise	NPPR9-FWDCX-D2C8J-H872K-2YT43

Operating system edition	KMS Client Product Key
Windows 11 Enterprise N Windows 10 Enterprise N	DPH2V-TTNVB-4X9Q3-TJR4H-KHJW4
Windows 11 Enterprise G Windows 10 Enterprise G	YYVX9-NTFWV-6MDM3-9PT4T-4M68B
Windows 11 Enterprise G N Windows 10 Enterprise G N	44RPN-FTY23-9VTTB-MP9BX-T84FV


Windows Enterprise LTSC and LTSB

Windows 11 LTSC 2024 Windows 10 LTSC 2021, 2019	
Expand table	
Operating system edition	KMS Client Product Key
Windows 11 Enterprise LTSC 2024 Windows 10 Enterprise LTSC 2021 Windows 10 Enterprise LTSC 2019	M7XTQ-FN8P6-TTKYV-9D4CC-J462D
Windows 11 Enterprise N LTSC 2024 Windows 10 Enterprise N LTSC 2021 Windows 10 Enterprise N LTSC 2019	92NFX-8DJQP-P6BBQ-THF9C-7CG2H

Earlier versions of Windows Server

Windows Server, version 1803	
Expand table	
Operating system edition	KMS Client Product Key
Windows Server Standard	PTXN8-JFHJM-4WC78-MPCBR-9W4KR
Windows Server Datacenter	2HXDN-KRXHB-GPYC7-YCKFJ-7FVDG

Earlier versions of Windows Client

 Expand table

Operating system edition	KMS Client Product Key
Windows 8.1 Pro	GCRJD-8NW9H-F2CDX-CCM8D-9D6T9
Windows 8.1 Pro N	HMCNV-VVBFX-7HMBH-CTY9B-B4FXY
Windows 8.1 Enterprise	MHF9N-XY6XB-WVXMC-BTDCT-MKKG7
Windows 8.1 Enterprise N	TT4HM-HN7YT-62K67-RGRQJ-JFFXW

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