# H3C Windows Server Installation and Activation Guide

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## **Before installation**

Follow these restrictions and guidelines before using the product:

- Prepare USB optical drivers.
- The installation requires H3C hardware devices. If your hardware devices are not H3C, do not installation this product series and solutions in this document are also not applicable.
- Make sure the network is connected when you use a product key to activate the operating system.
- This document applies to Windows Sever 2019 and Windows Sever 2022 software.

# **Install H3C Windows Server**

## Check manufacturer information

Enter the BIOS to check manufacturer information before the installation.

• For a Hygon series server, the information is displayed as follows:

Figure 1 R4930 G5 Hygon BIOS manufacturer information

Rypsol Main	t HIOS Setup Utility	
System Summ	ary	Help Message
System Manufacturer	New H3C Technologies Co., Ltd.	Serial Number is a strig of 2 to 20
Product Name System Serial Number Asset Tag System UUID	RS33M2C9S OEM Define N/A 6B3F042C-C434-04D2-EA11 -772C106894D6	characters and Only support letters and digits
UEFI Spec Version OCP Port 1 MAC Address OCP Port 2 MAC Address OCP Port 3 MAC Address OCP Port 4 MAC Address	UEFI 2.6 PI 1.4 74-3A-20-29-A0-D5 74-3A-20-29-A0-D6 74-3A-20-29-A0-D7 74-3A-20-29-A0-D8	
Fi Help II Select Item Esc Exit ↔ Select Menu	-/+ Change Value Enter Select Sub-Menu	F3 Setup Defaults F4 Save & Exit

• For an AMD series server, the information is displayed as follows:

	Aptio Setup Utilit Server	y – Copyright (C) 2021 Americar	) Megatrends, Inc.
ſ	FRU Information		
	System Manufacturer	New H3C Technologies Co., Ltd.	
	System Product Name System Version	RS33M2C9S Diesel	
	System Serial Number Board Manufacturer Board Product Name Board Version Board Serial Number	NULLZXX H3C RS45M2C9S 0302A5J8 0265J8H209000255	
	Chassis Manufacturer Chassis Version Chassis Serial Number System UUID	New 0235AQ7 210235A1Q70000000001 14D1BCF6-B044-04A5-EB11-	tl++ : Move Enter : Select +/− : Value ESC : Exit
	NOTE:No FRU information for fiel information needs to be filled b	1F08309D2599 ds indicate ng O.E.M	F1 : General Help F2 : Previous Values F3 : Optimized Defaults F4 : Save & Exit Setup <k> : Scroll help area upwards ↓↓ · · · · · · · · · · · · · · · · · ·</k>
	TSE Ver. 2.20.1275. Copy	right (C) 2021 American Megatre	<pre><m> : SCroll nelp area downwards ands International, LLC.</m></pre>

### Figure 2 R4950 G5 AMD BIOS manufacturer information

The above information is usually displayed on the BIOS for H3C servers. Make sure the **System Manufacturer** field is **New H3C Technologies Co., Ltd** for your sever. If not, see FAQ 1.

### Install the operating system

1. Insert the optical drive. The interface shown in Figure 3 prompts. Press any keyboard key immediately to access the installation page. If you fail to access the installation page, see FAQ 2.

Press any key to boot from CD or DVD..

Figure 3 Accessing the installation page

2. On the page that opens, click **Install now.** 

### Figure 4 Installation page (1)

Microsoft Server Operating System	n Setup	
	- Microsoft	
	Install now	
	•	
Repair your computer	ed.	

**3.** Configure the time and currency format and key board or input method (supporting only simplified Chinese and English) and then click **Next**.

Hicrosoft	
Language to install: English (United States)	<u> </u>
<u>T</u> ime and currency format: English (United States)	•
<u>K</u> eyboard or input method: <mark>US</mark>	•
Enter your language and other preferencer and click "New" to	continue
	Net.
© Microsoft Corporation. All rights reserved.	Next

Figure 5 Installation page (2)

4. Select an operating system to install and click Next.

The four operating system options are Windows Server 2022 Standard, Windows Server 2022 Standard (Desktop Experience), Windows Server 2022 Datacenter, and Windows Server 2022 Center (Desktop Experience). For difference between the standard version and datacenter version, visit the version comparison of Windows Server 2022 or Windows Server 2019 at <a href="https://learn.microsoft.com/en-us/windows-server/get-started/editions-comparison-windows-server-2022?tabs=full-comparis">https://learn.microsoft.com/en-us/windows-server/get-started/editions-comparison-windows-server-2022?tabs=full-comparis</a>. If you have entered the key during the installation, the system will only display information about the purchased version (standard or datacenter). For more information, see "Activate the operating system during installation."

Figure 6 Installation page (3)

0		Automatics	Data and diffical
Ope	rating system	Architecture	Date modified
Win	Jows Server 2022 Standard	x64	8/1/2021
Win	lows Server 2022 Standard (Desktop Experience)	x04	8/1/2021
VVID VA/Gen	dowr Server 2022 Datacenter (Derkton Evention of)	x64	8/7/2021
	The second of the second		
useru	ir you want to use the windows desktop of have an ap	op that requires it.	

- 5. Select an installation type.
  - To upgrade an installed Windows operating system, for example, from Windows 2019 to Windows 2022, select the **Upgrade** option.
  - To install a new Windows operating system, select the **Custom** option.

This document takes installing a new operating system as an example.

#### Figure 7 Installation page (4)

Custom: Install Microsoft Server Operating System only (advanced) The files, settings, and applications aren't moved to the new operating system with this option. you want to make changes to partitions and drives, start the computer using the installation dis We recommend backing up your files before you continue.
est and a second s

6. Accept the license terms and click Next.

### Figure 8 Installation page (5)

YOU MUST ACCEP	T THE SOFTWARE LICE	NSE TERMS. SEE BELO	<b>W</b> . ^
Flease reau the fu	i license terms provided	at (aka.ms/usetern	<b>5</b> /.
IMPORTANT NOT	ICE	oft collects this inform	action
over the Internet to	help keep Windows secu	ure and up to date.	lation
troubleshoot proble	ems, and make product i	mprovements, and ma	.y
associate the inform	nation with your organiza	ation. Microsoft server	
operating systems	can be configured to turn	diagnostic data off, s	end
setting is to send R	equired diagnostic data.	Required diagnostic d	ata
includes informatio	n to help keep the device	e secure, up-to-date, a	nd
working as expecte	d.		
I accept the Microsoft Soft	vare License Terms. If an organ	ization is licensing it, I am a	uthorized
to bind the organization.			
			Next

7. Select a drive to install the operating system. You can format a drive or delete partitions for a drive as needed. Click **Next**. The system starts installing the operating system automatically.

Figure 9 Installation page (6)

Name		Total size	Free space	Туре
Drive 0 P	artition 1	100.0 MB	67.0 MB	System
Drive 0 P	artition 2	16.0 MB	16.0 MB	MSR (Reserved)
Drive 0 P	artition 3	16763.4 GB	16715.4 GB	Primary
Drive 0 P	artition 4	523.0 MB	83.0 MB	Recovery
Refresh	X Delete	Eormat	₩ Ngw	
💮 Load driver	Extend			
				Next

**8.** After the installation, configure a password for the built-in administrator account.

For security purpose, configure the password as a combination of uppercase letters, lowercase letters, digits, and special characters as a best practice.

righte to configuring the system passwor	Figure 1	0 Configuring	the system	password
--	----------	---------------	------------	----------

Customiz	e settings
Type a password for	the built-in administrator account that you can use to sign in to this computer.
<u>U</u> ser name	
Password	1
<u>R</u> eenter password	
	N
520.00	
C7	<u> </u>

## **Activate H3C Windows Server**

### Activate the operating system during installation

- 1. Select a method to activate the operating system and click Next.
  - o If you are installing a new operating system, enter the product key.
  - If you are reinstalling an operating system, click **I don't have a product key**. The system activates the operating system later automatically.

This document takes installing a new operating system as an example.

To activate the operating system, make sure the network is connected.

Figure 11 Activ	vating the ope	erating system	during i	nstallation
-----------------	----------------	----------------	----------	-------------

Activate Microsoft Server	Operating System Setup	
If this is the first time you're install installing a different edition), you key. Your product key should be in of Microsoft Server Operating Syst System came in.	ing Microsoft Server Operating System on this PC (or need to enter a valid Microsoft Server Operating Syste the confirmation email you received after buying a em or on a label inside the box that Microsoft Server	you're m product digital copy Operating
The product key looks like this: XX	XXX-XXXXX-XXXXX-XXXXXX-XXXXXX	
If you're reinstalling Microsoft Serv copy of Microsoft Server Operation	ver Operating System, select I don't have a product ke g System will be automatically activated later.	y. Your
[		
Privacy statement	I don't have a product key	Next

2. Select an operating system version and click Next.

As shown in Figure 12, the activation code provides the activation for a standard version and a datacenter version and the system will only install the selected version.

	Select the operating system you want to install	Architecture	Date modified	
	Windows Server 2022 Datacenter	x64	8/7/2021	
	Windows Server 2022 Datacenter (Desktop Experience)	x64	8/7/2021	
	Description: This option installs the full Windows graphical environment useful if you want to use the Windows desktop or have an a	, consuming extra d	rive space. It can be	
			Next	
1 Collecting information	2 Installing Microsoft Server Operating System			

Figure 12 Selecting an operating system for installation

### Activate the operating system after installation

#### **Check the information**

Make sure the server can connect to the network correctly and the time, date, and region are correct. To use a product key to activate the operating system without network connection, see FAQ 10.

Make sure the product matches the product key. The key obtained at purchase can only activate the purchased version of operating system. For example, if you purchase Windows Sever 2022, the obtained key can only activate Windows Sever 2022 and cannot activate Windows Sever 2019. Verify that you use the correct media for Windows Server OEM installation.

#### Activate the operating system

1. Click the Start icon in the lower left corner of the desktop. Select Settings > Update & Security > Activation.

### Figure 13 Activating the operating system (1)

0	Settings — Background, IOCK screen, colors	-	×	
Recycle	Apps Uninstall, defaults, optional features			
	Accounts Your accounts, email, sync, work, other people			
	AF Time & Language Speech, region, date			
	Base of Access Narrator, magnifier, high contrast			
	Search Find my files, permissions			
	Privacy Location, camera, microphone			
	Update & Security Windows Update, recovery, backup			
			1	
-	A 🛱 💽 🗖 🚰 🐼			∧ € 🕼 10:39 PM 5/8/2021 🖣

Figure 14 Activating the operating system (2)



2. Select Change product key, enter the product key obtained at purchase, and click Next.

#### Figure 15 Activating the operating system (3)



3. In the confirmation dialog box that prompts, click Activate.

Figure 16 Activating the operating system (4)

Find a setting	Windows
Jpdate & Security	Edition Windows Server 2022 Datacenter Activation Unable to reach Windows activation servers
D, Activate Windows     By activating Windows, you get th	e best experience, free from interruptions. try Activate Cancel
<ul> <li>Recovery</li> <li>Activation</li> <li>For developers</li> </ul>	To install a new product key, select Change product key.

The system connects to the activation server to activate the operating system. If your device cannot connect to the network, see FAQ 11.

# FAQs

1.

- Failed BIOS Lock
- Why the system prompts an error after reading the installation file? Figure 17 Installation error (1)

The cause of this problem is that you use a non-H3C device that is not compatible for installing the operating system. To verify the hardware information, see "Check manufacturer information."

2. Why the system returns to the BIOS screen or the boot options interface after reading the installation file?

The cause of this problem is that you did not press any keyboard key on the black screen upon finishing reading the installation file. If you do not press any keyboard key, the system returns to your initial boot option. For more information, see "Install the operating system."

Can I use the product key for Windows Server 2019 to activate Windows Server 2022? 3.

No. The product key can only activate the corresponding purchased version of operating system. If you want to install a lower version, you can apply for a rollback package that contains the corresponding media and product key. You are still required to follow the terms for the purchased operating system.

What should I do for the Windows Server password configuration? 4.

If you purchase a pre-installed Windows Server, you must configure a password when using it for the first time. If you install Windows Server by using media, you must configure a password at first login. A strong password is an eight-character string combination of letters, digits, and special characters.

5. How do I view the activation information of the current operating system?

Right click Computer, select Properties, and view information in Windows activation.

- How do I set desktop icons? 6. Right click the desktop, select **Personalize** > **Themes** > **Desktop icon settings**.
- 7. How do I view hardware information? Press Win+R. In the Run box, enter dxdiag.





Figure 18 Viewing hardware information (1)

Figure 19 Viewing hardware information (2)

	Dispidy	Sound	input												
This to	ol reports	detailed	information a	out the Dire	ctX compo	onents a	nd driver	s installe	d on you	r system					
If you	know wha	at area is	causing the p	oblem, dick	the appro	priate ta	b above	Otherw	ise, you	can use	the 'Nex	t Page" b	outton	below to	5
Visitea	ich page i	n sequen	ce.												
Syste	em Intorm	ation	Curre	t Date/Time	Saturda	av Mav	8 2021	10-42-3	7 DM						
			Corre	nouter Name	: WIN-DO	DI KLION 1	7V3	10. 12.0							
			Oper	ating System	: Windov	vs Server	2022 51	andard 6	i4-bit (1)	0.0, Build	20348)				
				Language	: English	(Regiona	al Setting	: English	)						
			System I	lanufacturer	: New H3	C Techn	ologies (	o., Ltd.							
			5	ystem Model	: RS33M	2C95									
				BIOS	: 5.46										
				Processor	: AMD EP	PYC 7K62	48-Core	Process	or	(64	CPUs)				
				Memory	: 262144	IMB RAM		C	2						
				Page file	: 5468ME	Bused, 2	95448M	availabl	e						
			Di	ectX Version	: DirectX	12									
	heck for V	NHOI die	ital signatures												
- 8					DxDia	g 10.00.	20348.00	10164-bi	t Unicod	e Copyr	ght © Mi	crosoft.	All right	ts reserv	ved.
	Help						Next Par		Sau	e All Info	mation			Fxit	
	Theip						NOAL 1 DU	•	Jav	6 /4 110	madon	_		Lon	

- 8. Can I switch Windows Server Datacenter to Windows Server Standard directly? No. The product keys correspond to Windows Server Datacenter and Windows Server Standard, respectively, and cannot be used on each other. If you use the product key of Windows Server Standard to install Windows Server Datacenter, the system prompts the error that the product key is invalid. Verify the key and try again or enter another product key.
- 9. What can I do if my DVD drive is broken? Contact with H3C to replace with a new one. You are required to provide your proof of purchase. The replacement package does not contain the product key for activation.
- **10.** Why can't I activate my operating system by using a key without network connection? When using a key to activate the operating system, you must make sure the network connection, time, date, and region are correct. If the network is not connected, the server will not be able to connect to the activation sever.
- 11. How do I activate the operating system if my device cannot connect to a network?

You can make a phone call to activate the operating system. Procedures are as follows:

- **a.** Use the administrator account to open Command Prompt.
- b. Enter slui 4.
- c. In the drop-down list, select your country/region.
- **d.** Click **Next**. The system will provide you with a hotline number and an ID for Windows activation.
- e. Dial the hotline number and provide the ID.
- f. Follow the instructions and you will receive a confirmation ID.
- **g.** Click the entering confirmation ID button. On the page that opens, enter the confirmation ID.
- h. Click the Windows activation button.
- **12.** How do I activate the operating system if I cannot activate it by making a phone call?

You can perform the following tasks to activate the operating system:

- **a.** Use the administrator account to open Command Prompt.
- **b.** Enter **slmgr.vbs** /**ipk**\_*Product\_Key* (enter a space between the keywords and the product key), and press **Enter**. The system binds the operating system with the product key.
- **c.** Enter **slmgr.vbs** /dti and press **Enter**. The system prompts a window that provides you with an installation ID. Record the ID for activation.
- **d.** Dial the Microsoft Support number for your country/region. The Microsoft Support has activation hotline for free and event support hotline that is charged for service. Select the activation hotline.
- **e.** Follow the instructions in the phone to obtain a confirmation ID. The process uses the installation ID obtained previously. Record the confirmation ID.
- f. Enter slmgr.vbs /apt\_Confirmation\_ID (enter a space between the keywords and the confirmation ID) and press Enter.

The operating system will be activated.

13. What will happen if I reinstall my operating system?

You are required to verify what type of hardware is replaced. You can use the original product key to activate the operating system as long as you do not replace the system board. To identify the key conveniently, attach the COA to the server. If you replace the system board, you must retain the proof of the system board replacement and resolve issues by using the phone number mentioned in FAQ 12.

## Reference

Microsoft Windows Server 2022 Windows Server deployment, configuration, and administration Windows Server documentation Hardware requirements for Windows Server