We use optional cookies to improve your experience on our websites, such as through social media connections, and to display personalized advertising based on your online activity. If you reject optional cookies, only cookies necessary to provide you the services will be used. You may change your selection by clicking "Manage Cookies" at the bottom of the page. Privacy Statement Third-Party

Accept

Reject

Manage cookies

### Microsoft Ignite

Nov 19-22, 2024

Register now >



Learn

Discover ∨

Product documentation V Development languages V Topics V

Sign in

Windows

Release health Windows client V Application developers V Hardware developers V Windows Server Windows for IoT Windows Insider Program More V

Filter by title

WSL Documentation

> Overview ∨ Install

Install WSL

Manual install steps for older versions

Install on Windows Server

- > Tutorials
- > Concepts
- > How-to
- > Enterprise security

Frequently Asked Questions

Troubleshooting

> Release Notes

Learn / Windows / WSL /

## Windows Server Installation Guide

Article • 06/20/2022 • 12 contributors

Feedback

In this article

Install WSL on Windows Server 2022

Install WSL on previous versions of Windows Server

The Windows Subsystem for Linux (WSL) is available for installation on Windows Server 2019 (version 1709) and later. This guide will walk through the steps of enabling WSL on your machine.

### **Install WSL on Windows Server 2022**

Windows Server 2022 now supports a simple WSL installation using the command:

Bash Copy wsl --install

You can now install everything you need to run WSL on Windows Server 2022 by entering this command in an administrator PowerShell or Windows Command Prompt and then restarting your machine.

This command will enable the required optional components, download the latest Linux kernel, set WSL 2 as your default, and install a Linux distribution for you (Ubuntu by default).

See the standard WSL docs for more information on how to:

- Change the default Linux distribution installed.
- Set up your Linux username and password.
- Check which version of WSL you are running
- Update and upgrade packages.
- Add additional distributions.
- Use Git with WSL.

## Install WSL on previous versions of Windows Server

To install WSL on Windows Server 2019 (version 1709+), you can follow the manual install steps below.

### **Enable the Windows Subsystem for Linux**

Before you can run Linux distributions on Windows, you must enable the "Windows Subsystem for Linux" optional feature and reboot.

Open PowerShell as Administrator and run:

PowerShell

Copy

Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux

### Download a Linux distribution

See the Downloading distributions section of the manual installation page for instructions and links to download your preferred Linux distribution.

### **Extract and install a Linux distribution**

Now that you've downloaded a Linux distribution, in order to extract its contents and manually install, follow these steps:

1. Extract the <DistributionName>.appx package's contents, using PowerShell:

```
PowerShell

Rename-Item .\Ubuntu.appx .\Ubuntu.zip
Expand-Archive .\Ubuntu.zip .\Ubuntu
```

2. Once the distribution has been downloaded, navigate to the folder containing the download and run the following command in that directory, where app-name is the name of the Linux distribution .appx file.



#### ⊗ Caution

**Installation failed with error 0x8007007e**: If you receive this error, then your system doesn't support WSL. Ensure that you're running Windows build 16215 or later. **Check your build**. Also check to **confirm that WSL is enabled** and your computer was restarted after the feature was enabled.

3. Add your Linux distribution path to the Windows environment PATH (C:\Users\Administrator\Ubuntu in this example), using PowerShell:

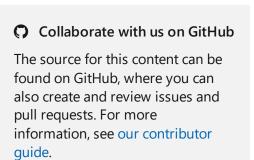
```
PowerShell

$userenv = [System.Environment]::GetEnvironmentVariable("Path", "User")

[System.Environment]::SetEnvironmentVariable("PATH", $userenv + ";C:\Users\Administration of the company of the comp
```

You can now launch your distribution from any path by typing <DistributionName>.exe. For example: ubuntu.exe.

Once installation is complete, you can create a user account and password for your new Linux distribution.



## <u>(j</u>

# Windows Subsystem for Linux feedback

Windows Subsystem for Linux is an open source project. Select a link to provide feedback:

🖔 Open a documentation issue

Provide product feedback

#### Additional resources

**☎** Training

Module

Developing in the Windows Subsystem for Linux with Visual Studio Code - Training

In this module, you learn how to use the Windows Subsystem for Linux (WSL) with Visual Studio Code (VS Code). We explore the installation process and the basics of using WSL. Additionally, we install and utilize the Visual Studio Code WSL extension. Finally, we demonstrate how to debug and run Python code in VS Code within our WSL environment.

#### Certification

#### Microsoft Certified: Windows Server Hybrid Administrator Associate - Certifications

Trademarks ☑

As a Windows Server hybrid administrator, you integrate Windows Server environments with Azure services and manage Windows Server in on-premises networks.

#### **Events**

Nov 20, 12 AM - Nov 22, 12 AM

Terms of Use

Gain the competitive edge you need with powerful AI and Cloud solutions by attending Microsoft Ignite online.

Register now

Privacy ☑

Senglish (United States) **✓** ✓ Your Privacy Choices ☆ Theme ∨ © Microsoft 2024

Contribute

Manage cookies

**Previous Versions** 

Blog ☑