

Remote Development

Previe

An extension pack that lets you open any folder in a container, on a remote machine, or in WSL and take advantage of VS Code's full feature set.

Installation

Launch VS Code Quick Open (Ctrl+P), paste the following command, and press enter.

ext install ms-vscode-remote.vscode-remote-extensionpack

More Info

Conv

Overview

Version History

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Visual Studio Code Remote Development Extension Pack

The Remote Development extension pack allows you to open any folder in a container, on a remote machine, or in the Windows Subsystem for Linux (WSL) and take advantage of VS Code's full feature set. Since this lets you set up a full-time development environment anywhere, you can:

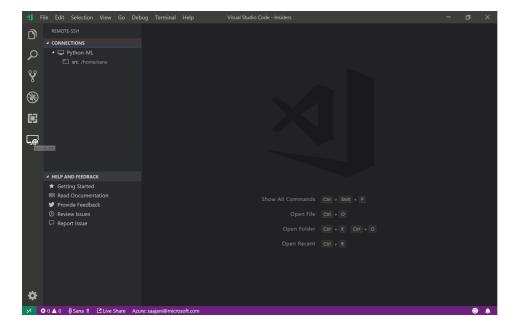
- Develop on the same operating system you deploy to or use larger, faster, or more specialized hardware than your local machine.
- Quickly swap between different, separate development environments and make updates without worrying about impacting your local machine.
- Help new team members / contributors get productive quickly with easily spun up, consistent development containers.
- Take advantage of a Linux based tool-chain right from the comfort of Windows from a full-featured development tool.

No source code needs to be on your local machine to gain these benefits since Remote Development runs commands and extensions directly on the remote machine.

This Remote Development extension pack includes three extensions:

- Remote SSH Work with source code in any location by opening folders on a remote machine/VM using SSH. Supports x86_64, ARMv7l (AArch32), and ARMv8l (AArch64) glibc-based Linux, Windows 10/Server (1803+), and macOS 10.14+ (Mojave) SSH hosts.
- Dev Containers Work with a separate toolchain or container based application by opening any folder mounted into or inside a container.
- WSL Get a Linux-powered development experience from the comfort of Windows by opening any folder in the Windows Subsystem for Linux.

The Remote SSH extension at work:



System Requirements

Local: See the minimum requirements for VS Code. For Windows, Remote - Containers requires Windows 10 Pro/Enterprise or Home 2004+ with WSL2 enabled due to Docker requirements. See installation steps for additional

Categories

Extension Packs

Tags

containers dev container development container docker remote remote development ssh wsl

Works with

Universal, Web

Resources

Issues

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Project Details

Microsoft/vscode-remote-release

• Last Commit: 2 months ago

🕽 4 Pull Requests

1123 Open Issues

More Info

Version 0.23.0

Released on 03.05.2019, 01:40:50 Last updated 09.11.2022, 21:06:21

Publisher Microsoft

Unique ms-vscode-remote.vscode-remote-Identifier extensionpack

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details for each extension.

Remote host / container / WSL support:

- x86_64 / ARMv8I (AArch64) / ARM7I (AArch32) Debian/Raspbian 9+, Ubuntu 16.04+, Ubuntu IoT 18.04+, CentOS / RHEL 7+ SSH hosts, containers, or WSL distributions.
- x86_64 Alpine Linux 3.7+ containers or WSL distributions (no SSH support yet).

Additional SSH support:

- Windows 10 / Server 2016/2019 (1803+) using the official OpenSSH Server.
- macOS 10.14+ (Mojave) SSH hosts with Remote Login enabled.

Other glibc based Linux SSH Hosts, containers, or WSL distributions may work if they have needed prerequisites.

Some extensions installed on ARMv7l (AArch32) and ARMv8l (AArch64) devices may not work due to the use of x86 native code in the extension. Similarly, extensions installed in Alpine Linux containers or the Alpine WSL distribution may not work due to glibc dependencies in native code inside the extension. See the Remote Development and Linux article for details.

Installation

- 1. Install VS Code or VS Code Insiders and this extension pack. On Windows, be sure to check Add to PATH when asked to Select Additional Tasks during installation.
- 2. Remote SSH: Install an OpenSSH compatible SSH client.
- 3. WSL: Install the Windows Subsystem for Linux along with your preferred Linux distribution. (Note that WSL2 support is experimental.)
- 4. Dev Containers: Install and configure Docker for your operating system.

Windows / macOS:

- 1. Install Docker Desktop 2.0+ for Mac/Windows. Windows 10 Home (2004+) requires Docker Desktop 2.2+ and the WSL2 back-end. (Docker Toolbox is not supported.)
- If not using WSL2 on Windows, right-click on the Docker task bar item, select Settings / Preferences
 and update Resources > File Sharing with any locations your source code is kept. See tips and tricks
 for troubleshooting.
- 3. To enable the Windows WSL2 back-end: Right-click on the Docker taskbar item and select Settings. Check Use the WSL2 based engine and verify your distribution is enabled under Resources > WSL Integration.

Linux:

- 1. Follow the official install instructions for Docker CE/EE 18.06+. If you use Docker Compose, follow the Docker Compose 1.21+ install directions.
- Add your user to the docker group by using a terminal to run: sudo usermod -aG docker \$USER Sign out and back in again so this setting takes effect.

Working with Git? Here are three tips to consider:

- If you are working with the same repository folder in Windows and WSL or a container, be sure to set up consistent line endings. See tips and tricks to learn how.
- In WSL, you can also avoid passwords by configuring WSL to use the Windows Git credential manager. See tips and tricks to for details.
- For containers, if you clone using a Git credential manager, your container should already have access to
 your credentials! If you use SSH keys, you can also opt-in to sharing them. See Sharing Git credentials with
 your container for details.

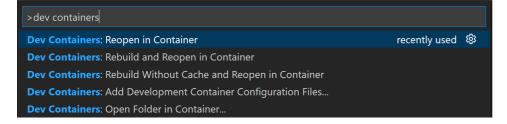
Getting started

Check out one of the following quick starts to get going.

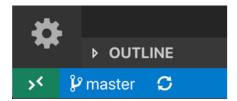
- WSL: Tutorial
- SSH: Tutorial
- SSH: Getting started
- Containers: Tutorial
- Containers: Use a container as your full-time environment
- Containers: Attach to a running container
- Containers (Advanced): Use a remote Docker host

Available commands

Another way to learn what you can do with the Remote Development extensions is to browse the commands each of them provide. Press F1 to bring up the Command Palette and type in Remote- for a full list of commands.



You can also click on the Remote "Quick Access" status bar item in the lower left corner to get a list of the most common commands.



For more information, please see the extension pack documentation.

Release Notes

While an optional install, the Remote Development extensions release with VS Code. VS Code release notes include a summary of changes with a link to detailed release notes.

As with VS Code itself, the extensions update during a development iteration with changes that are only available in VS Code Insiders Edition.

Questions, Feedback, Contributing

Have a question or feedback?

- See the documentation or the troubleshooting guide.
- Up-vote a feature or request a new one, search existing issues, or report a problem.
- Contribute a development container definition for others to use
- Contribute to our documentation
- ...and more. See our CONTRIBUTING guide for details.

Or connect with the community...







Telemetry

The Visual Studio Code Remote Development extension pack and its related extensions collect telemetry data to help us build a better experience working remotely from VS Code. We only collect data on which commands are executed. We do not collect any information about image names, paths, etc. The extension respects the telemetry.enableTelemetry setting which you can learn more about in the Visual Studio Code FAQ.

License

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