


# Windows Subsystem for Linux - Debian 10.3

## Installation

- Enable "Developer mode" in *Settings* -> *Update & Security* -> *For developers*
- Press Windows key + R and run `*optionalfeatures.exe`. **Enable *Windows Subsystem for Linux***. Restart the computer. \* Open Windows Power Shell as Administrator, then run the following line and reboot:`Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux` \* Open the Microsoft Store and search for "Linux". Choose and get Debian, as per 2020-03-10 this is Debian 10 Buster. \* Open *Debian* from the start menu and complete installation. \* Upgrade all packages:`sudo apt update sudo apt upgrade` \* Install packages:`sudo apt install vim sudo apt install wget sudo apt install zip sudo apt install rsync` \* Create `/run/sshd` folder:`sudo mkdir /run/sshd` \* Create a shortcut to the executable on your desktop:`C:\Users\user\AppData\Local\Microsoft\WindowsApps\debian.exe` \* The root file system can be found at a path similar to:`C:\Users\bco\AppData\Local\Packages\TheDebianProject.DebianGNUlinux_76v4gfsz19hv4\LocalState\rootfs` \* Add  and  icons to the shortcuts  
===== SSH Server ===== \* Install packages:`sudo apt install openssh-server` \* Follow the [SSH Client and Server](#) guide. SSH into your host and open port 22 in the Windows Firewall. ===== Start SSH Server at Windows boot time ===== \* Open a bash command shell and allow `<user>` to run ssh as root, add the following line after `%sudo:``sudo visudo %sudo ALL=(ALL:ALL) ALL <user> ALL=(root:root) NOPASSWD: /etc/init.d/ssh` \* Open Windows Task Scheduler and click *Create Basic Task...* - General \* Name : Start Bash SSH Server \* Description: Start the WSL SSH Server via a bash command \* Run only when user is logged on \* Run with highest privileges - Trigger \* Begin the task: At log on \* Specific user: `<user>` \* Enabled - Actions \* Action: Start a program \* Program/script: `C:\Windows\System32\bash.exe` \* Add arguments (optional): `-c "/usr/bin/sudo /etc/init.d/ssh start"` - Conditions \* Start the task only if the computer is on AC power - Settings \* *Uncheck* Stop the task if it runs longer than: - Alternative Action when starting a non elevated script "startup" \* Action: Start a program \* Program/script: `C:\Windows\System32\bash.exe` \* Add arguments (optional): `-c "/home/user/startup"` \* Script "startup":`#!/bin/bash sudo /etc/init.d/ssh start` ===== LAMP ===== \* [Apache 2.4 and PHP 7.4](#) \* [MariaDB 10.3](#) ===== Mounting encrypted drives ===== \* WSL can mount encrypted drives, but they must be mounted at the time wsl or bash runs the first time after boot. \* If you do not execute any tasks when the host boots up, then just make sure your encrypted drives are mounted when you run wsl or bash. \* If you do execute WSL tasks when the host boots up, replace the *Task Scheduler* entry for the trigger and make it run after the *Mount* script has executed:`<QueryList> <Query Id="0" Path="Microsoft-Windows-TaskScheduler/Operational"> <Select Path="Microsoft-Windows-TaskScheduler/Operational">*[EventData[@Name='TaskSuccessEvent']][Data[@Name='TaskName']]='\Mount']</Select> </Query> </QueryList>` \* Remember to "Enable All Task History" under Actions tab. You might need to do this again after a Windows 10 major version upgrade\*\*.

# Links

- [Windows Subsystem for Linux Installation Guide for Windows 10](#)
- [How Does the Windows 10 Subsystem for Linux Work and What Is It For?](#)
- [Background Task Support in WSL](#)
- [SSH on Windows Subsystem for Linux \(WSL\)](#)
- [Backup with rsync on Windows \(WSL\)](#)
- [Docker Running Seamlessly in Windows Subsystem Linux](#)

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