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Install Ubuntu on WSL2 on Windows 10

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1. Overview

NOTE: As of November 2022 November 2022 <a hre

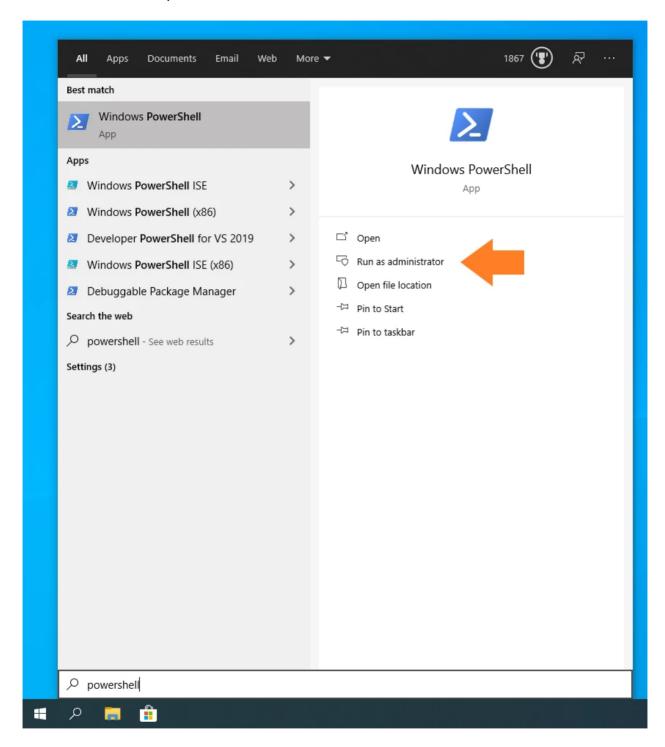
Windows Subsystem for Linux (WSL) allows you to install a complete Ubuntu terminal environment in minutes on your Windows machine, allowing you to develop crossplatform applications without leaving Windows.

In this tutorial, we'll show you how to get up and running with Ubuntu on WSL. These instructions will work on both Windows 10 or Windows 11.

Whilst WSL is a powerful tool for all users, some features, such as the ability to run graphical Linux applications, are only available on Windows 11. Please check out our Windows 11 tutorial https://ubuntu.com/tutorials/install-ubuntu-on-wsl2-on-windows-11-with-gui-support#1-overview for more information.

2. Install WSL

Installing WSL is now easier than ever. Search for Windows PowerShell in your Windows search bar, then select **Run as administrator**.



At the command prompt type:

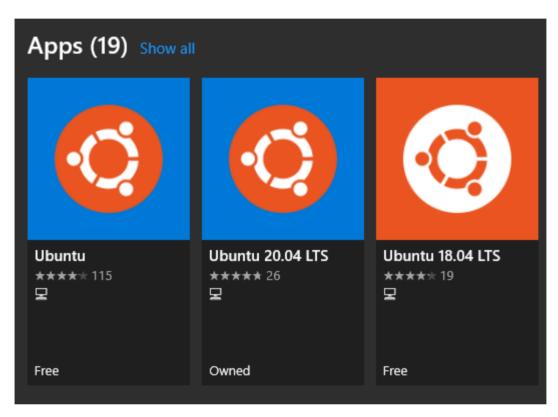
wsl --install

And wait for the process to complete.

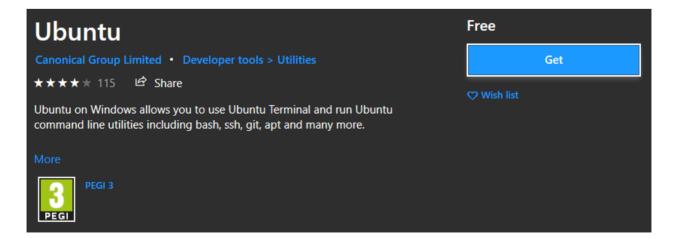
For WSL to be properly activated, you will now need to restart your computer.

3. Download Ubuntu

WSL supports a variety of Linux distributions, including the <u>latest Ubuntu release</u> https://www.microsoft.com/en-us/p/ubuntu/9pdxgncfsczv?
rtc=1&activetab=pivot:overviewtab>, Ubuntu 20.04 LTS and Ubuntu 18.04 LTS. You can find them by opening the Microsoft store app and searching for **Ubuntu**.



Choose the distribution you prefer and then click on **Get** as shown in the following screenshot:



Ubuntu will then install on your machine.

The one line install!

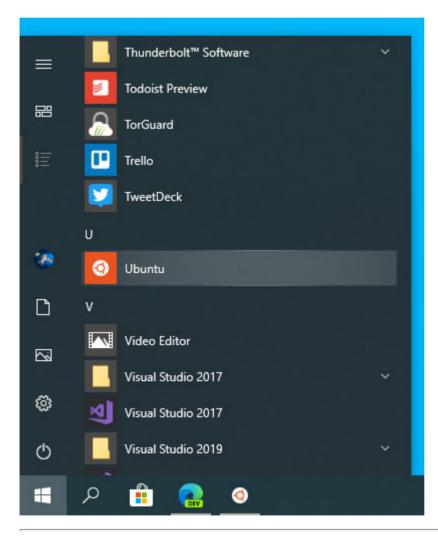
There is a single command that will install both WSL and Ubuntu at the same time.

When opening PowerShell for the first time, simply modify the initial instruction to:

wsl --install -d ubuntu

This will install both WSL and Ubuntu! Don't forget to restart your machine before continuing.

Once installed, you can either launch the application directly from the store or search for **Ubuntu** in your Windows search bar.



4. Configure Ubuntu

Congratulations, you now have an Ubuntu terminal running on your Windows machine!

If Ubuntu returns an error during this initial installation, then the most common issue is that virtualisation is disabled in your device's BIOS menu. You will need to turn this on during your device's boot sequence. The location of this option varies by manufacturer, so you will need to refer to their documentation to find it.

Once Ubuntu has finished its initial setup you will need to create a username and password (this does not need to match your Windows user credentials).

```
☑ Ubuntu
— □ X
Installing, this may take a few minutes...
Please create a default UNIX user account. The username does not need to match your Windows username.
For more information visit: https://aka.ms/wslusers
Enter new UNIX username: _
```

Finally, it's always good practice to install the latest updates with the following commands, entering your password when prompted.

sudo apt update

Then

sudo apt upgrade

Press Y when prompted.

5. Install your first package

Installing packages on Ubuntu is as easy as using a single command. Below, you will see how to install <a href="mailto:bpython <a href="mailto:bpython, a simple python interpreter for trying out ideas, featuring some nice usability features like expected parameters and autocompletion.

To check that you have the latest package lists, type:

sudo apt update

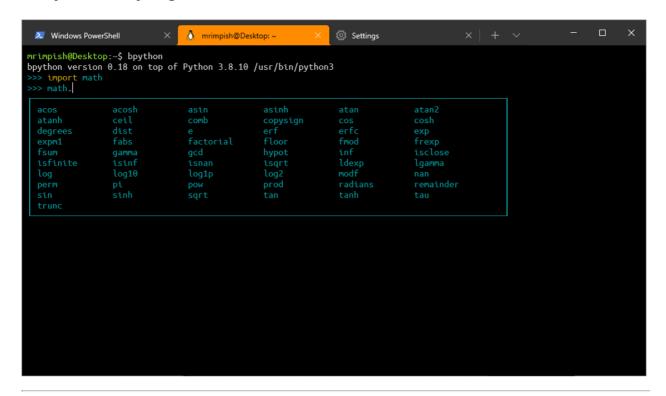
Then install bpython:

sudo apt install bpython

To run the application type:

bpython

And you're ready to go!

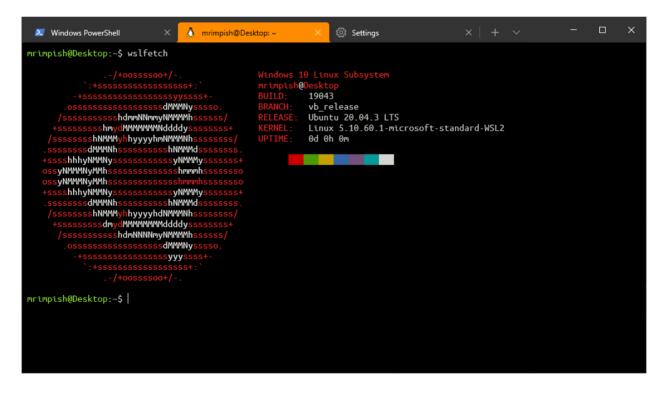


6. Customising your Terminal with Windows Terminal Preview

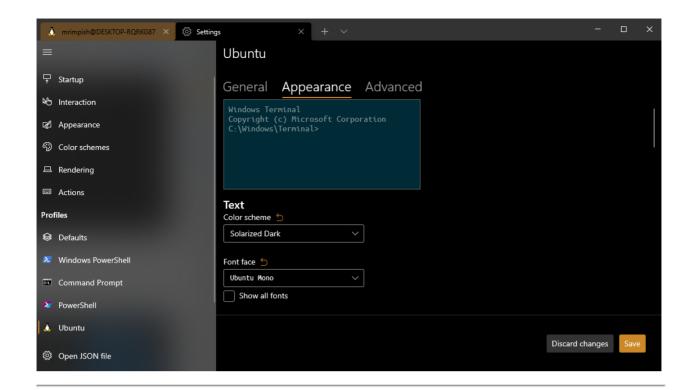
Since you're likely to be using your Ubuntu terminal a fair bit, it's always nice to do some customisation. We recommend installing Windows Terminal Preview to get the most user-friendly setup. You can find it in the Microsoft Store https://www.microsoft.com/en-us/p/windows-terminal-preview/9n8g5rfz9xk3? activetab=pivot:overviewtab>.



Windows Terminal allows you to open multiple Terminal instances as tabs, so you can have PowerShell running alongside Ubuntu. It also includes a number of customisation options. In the below screenshot, we've changed the tab name and colour, and configured the terminal appearance to use the Tango Dark theme and the Ubuntu font https://design.ubuntu.com/font/ !



These customisations can be applied universally using the Appearance menu in **Settings** or to individual profiles which each have their own Appearance menu. Try it yourself to find something you feel comfortable with!



7. Enjoy Ubuntu on WSL!

That's it! In this tutorial, you've seen how to install WSL and Ubuntu, set up your profile, and install your first package. You also got some tips on how to customise your experience.

We hope you enjoy working with Ubuntu inside WSL. Don't forget to check out <u>our blog ">blog https://ubuntu.com/blog <a hre</u>

Further Reading

- Install Ubuntu on WSL2 on Windows 11 with GUI Support https://ubuntu.com/tutorials/install-ubuntu-on-wsl2-on-windows-11-with-gui-support#6-enjoy-ubuntu-on-wsl>
- Working with Visual Studio Code on Ubuntu on WSL2
 https://ubuntu.com/tutorials/working-with-visual-studio-code-on-ubuntu-on-wsl2#1-overview>
- <u>Enabling GPU acceleration on Ubuntu on WSL2 with the NVIDIA CUDA Platform</u> https://ubuntu.com/tutorials/enabling-gpu-acceleration-on-ubuntu-on-wsl2-with-the-nvidia-cuda-platform
- <u>Setting up WSL for Data Science https://ubuntu.com/blog/wsl-for-data-scientist</u>
- WSL on Ubuntu Wiki https://wiki.ubuntu.com/WSL
- Ask Ubuntu https://askubuntu.com/

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