

# How to Install Linux Bash Shell on Windows 10

## What is Bash on Windows?

Bash on Windows provides a Windows subsystem and Ubuntu Linux runs atop it. It is not a virtual machine or an application. It is complete Linux system inside Windows 10.

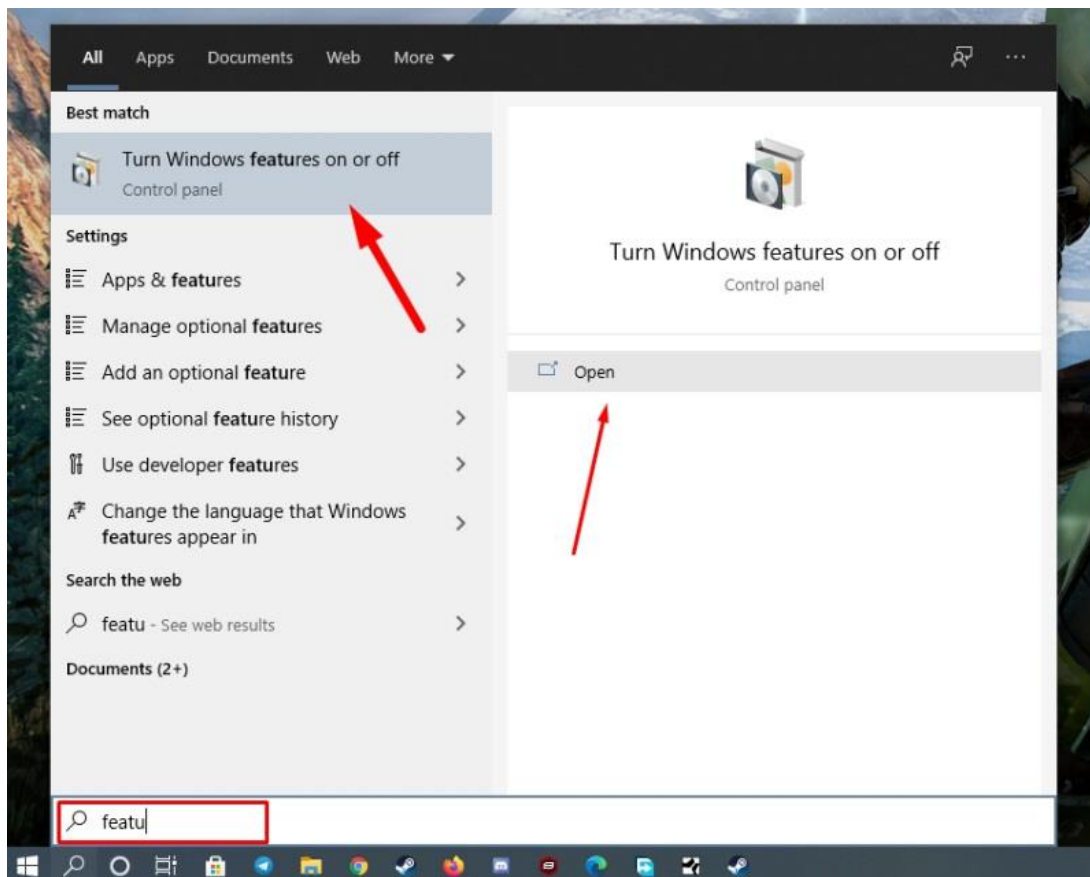
Basically, it allows you to run the same Bash shell that you find on Linux. This way you can run Linux commands inside Windows without the needing to install a virtual machine, or dual boot Linux and Windows. You install Linux inside Windows like a regular application. This is a good option if your main aim is to learn Linux/Unix commands.

## Install Linux Bash Shell on Windows 10 Newer Versions

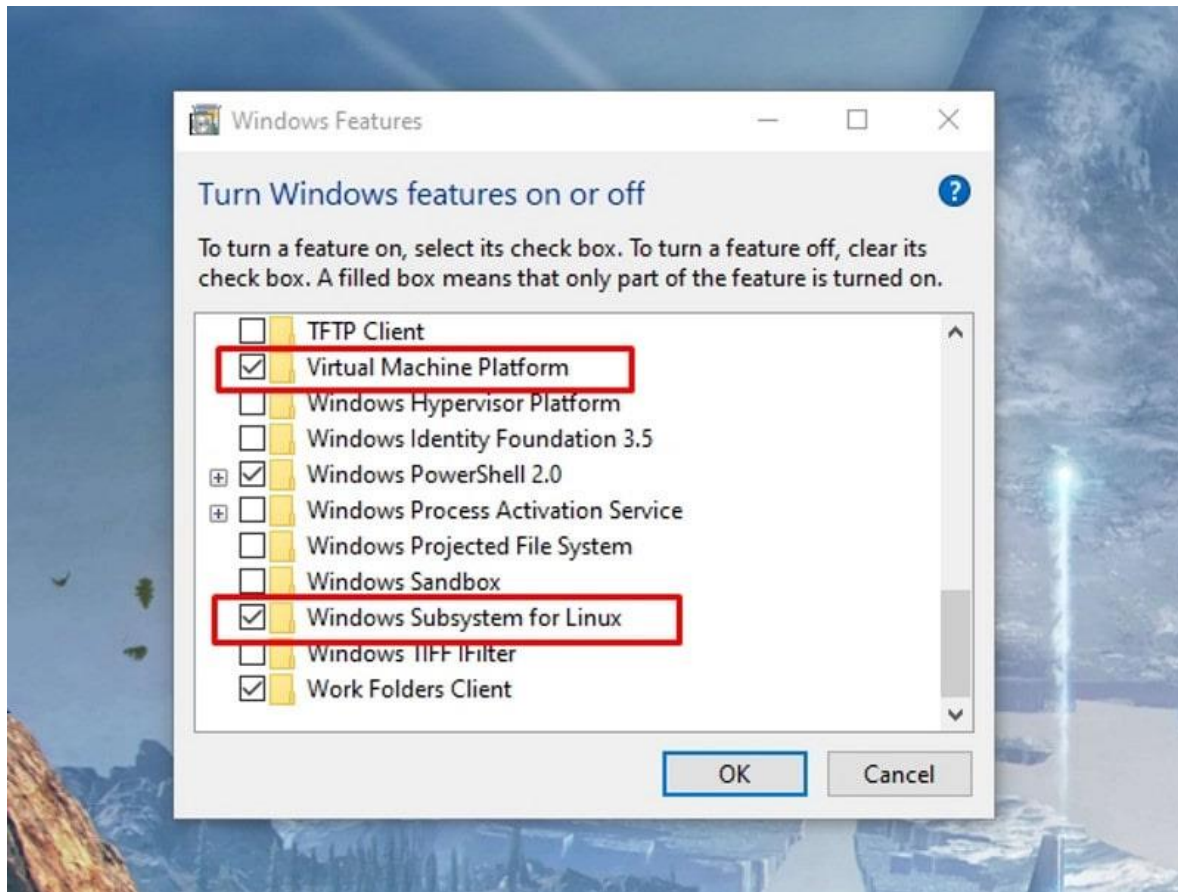
### Step 1: Enable “Windows Subsystem for Linux” feature

The first thing you need to do is to enable Windows Subsystem for Linux feature from PowerShell or from the Windows feature options.

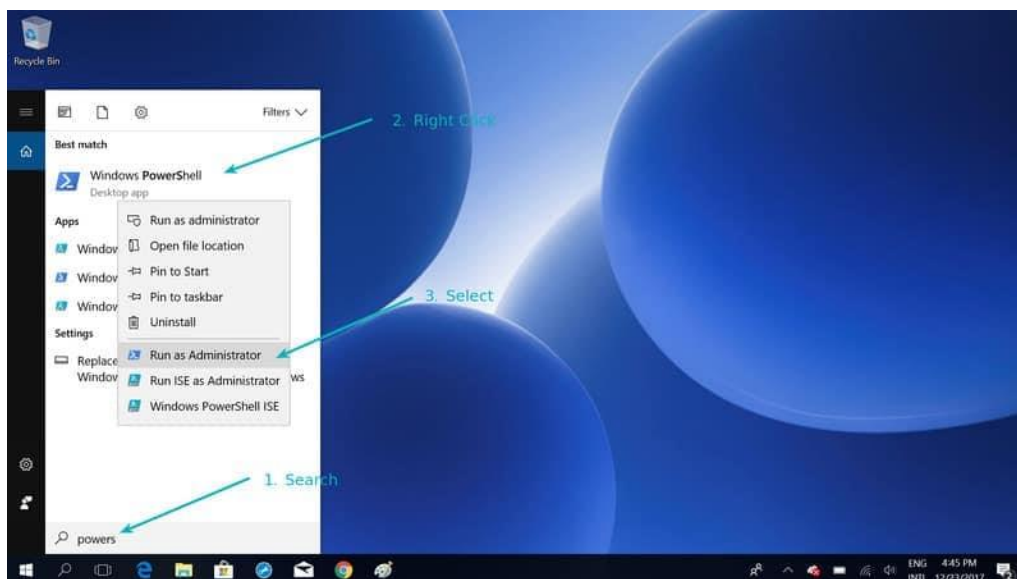
If you want to utilize the GUI, you can simply search for option to get the list of Windows features to enable a few things as shown in the screenshot below.



Now, you just have to open it to access all the options. Among the ones listed, you have to enable (or check) the feature for “Windows Subsystem for Linux” and “Virtual Machine Platform” and then perform a reboot to make sure you have both of them enabled.



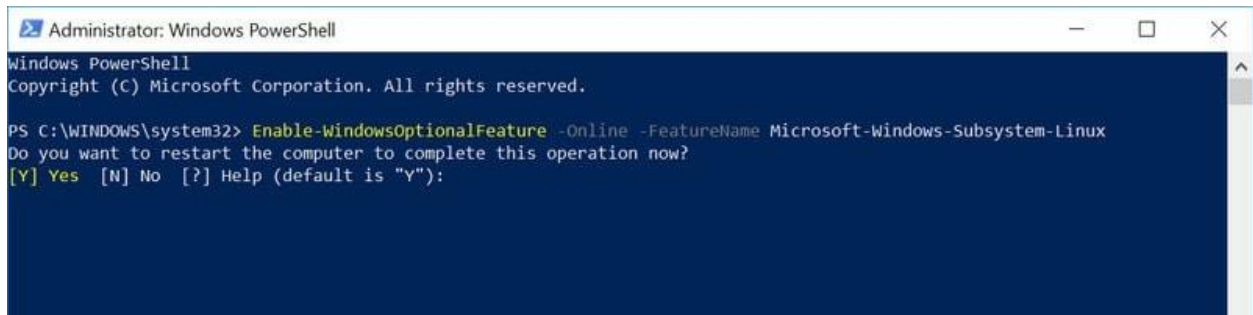
In either case, if you want to utilize the PowerShell, you can just go to the Start menu and search for PowerShell. Run it as administrator:



Once you have the PowerShell running, use the command below to enable Bash in Windows 10.

```
Enable-WindowsOptionalFeature -Online -FeatureName  
VirtualMachinePlatform -norestart  
dism.exe /online /enable-feature /featurename:Microsoft-Windows-  
Subsystem-Linux /all
```

You'll be asked to confirm your choice. Type Y or press enter:

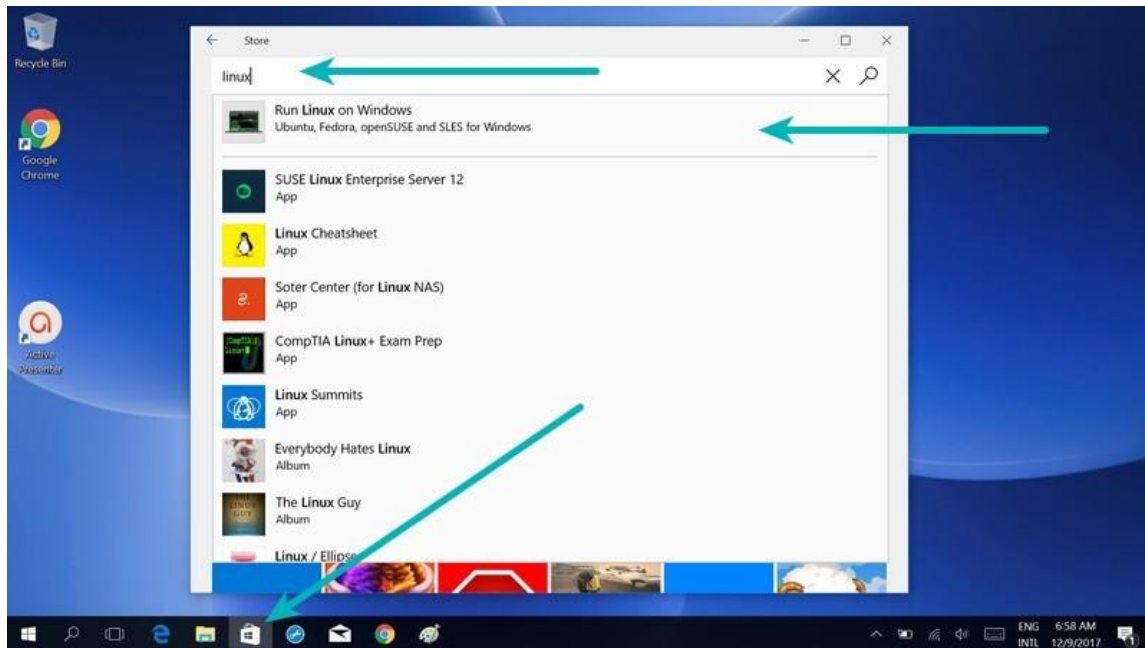
A screenshot of a Windows PowerShell window titled "Administrator: Windows PowerShell". The window has a dark blue background with white text. The text inside shows the command "Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux" being executed. Below the command, it asks "Do you want to restart the computer to complete this operation now?" and shows the response "[Y] Yes [N] No [?] Help (default is 'Y'):". The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
Administrator: Windows PowerShell  
Windows PowerShell  
Copyright (c) Microsoft Corporation. All rights reserved.  
  
PS C:\WINDOWS\system32> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux  
Do you want to restart the computer to complete this operation now?  
[Y] Yes [N] No [?] Help (default is "Y"):
```

Now you should be asked to reboot. Even if you are not asked to, you must restart your system.

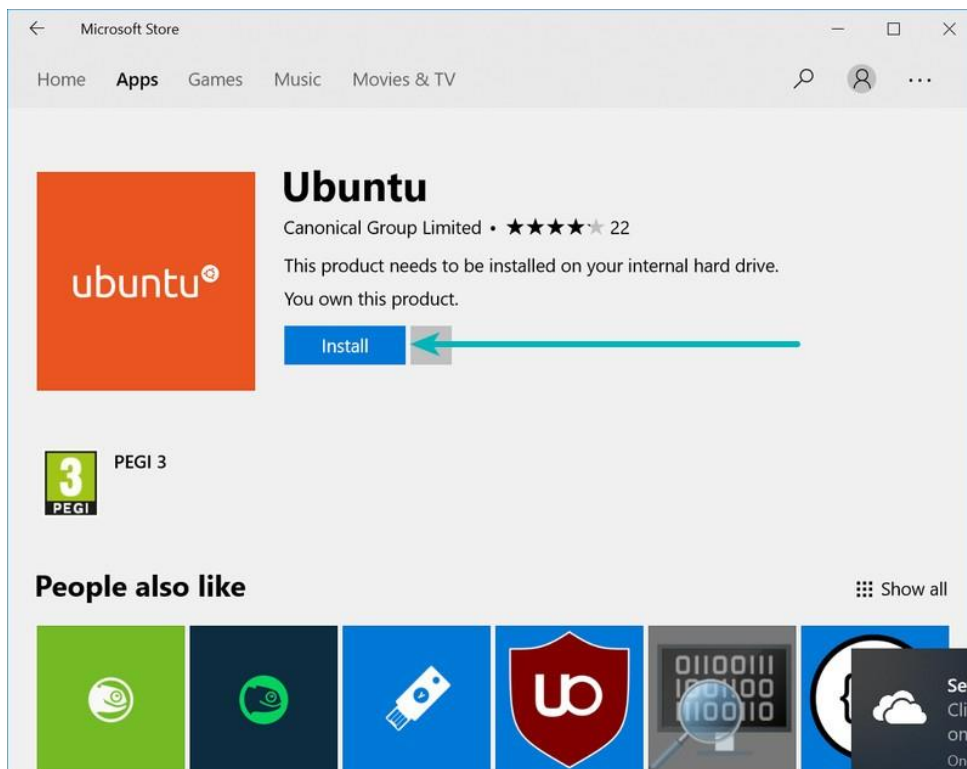
## Step 2: Download a Linux system from the Windows store

Once your system has rebooted, go to the Windows Store and search for “Linux” or just “Ubuntu”.



You will see different distributions of Ubuntu.

Once you choose the distribution of your choice, you'll see the option to install it. Do note that it will download files of around 1Gb in size or less depending on what you're downloading.

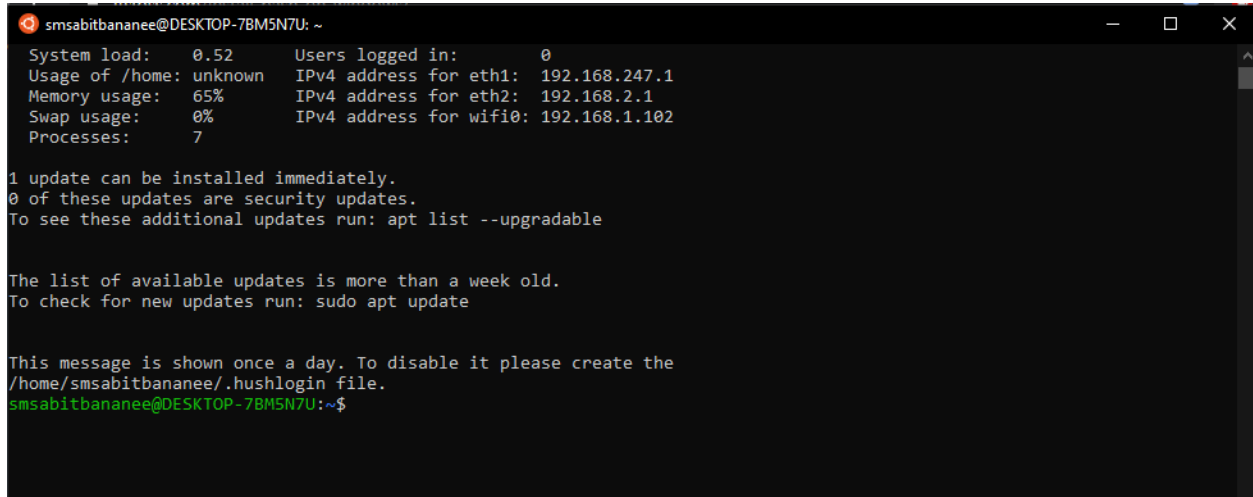


### Step 3: Run Linux inside Windows 10

You are almost there. Once you have installed Linux, it's time to see how to access Bash in Windows 10.

Just search for the Linux distribution you installed in the previous step. In my case it was Ubuntu. You'll see that it runs like a normal Windows application.

It will take some time installing and then you'll have to set up the username and password.



```
smsabitbananee@DESKTOP-7BM5N7U: ~
System load: 0.52      Users logged in: 0
Usage of /home: unknown IPv4 address for eth1: 192.168.247.1
Memory usage: 65%     IPv4 address for eth2: 192.168.2.1
Swap usage: 0%        IPv4 address for wifi0: 192.168.1.102
Processes: 7

1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

This message is shown once a day. To disable it please create the
/home/smsabitbananee/.hushlogin file.
smsabitbananee@DESKTOP-7BM5N7U:~$
```

Don't worry, it's just for the first run. Bash shell will be available for use directly from the next time onwards.

Enjoy Linux inside Windows 10.