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Posted on Aug 24, 2020 • Updated on Dec 12, 2021

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GCC for Windows

How to install gcc in Windows 10? (the easier way)

#c #gcc #windows10 #windows

GCC, abbreviation for 'GNU Compiler Collection' (thanks @saphirakai) (and not Gulf Cooperation Council, like I'd assumed) is a necessity if you (or your pesky college) is into C Programming.

Almost all Linux distros come pre-installed with it so they are out of the trouble. But for those of you who were constant users of Windows and Command Prompt, and never felt the necessity for a C compiler, GCC seems to come out of the blue and a tough nut to install. 1000 rage-quits later, I present you this article.

This article is written so that the installation process is made easier than most of the trashy articles I had to go through.

Installation

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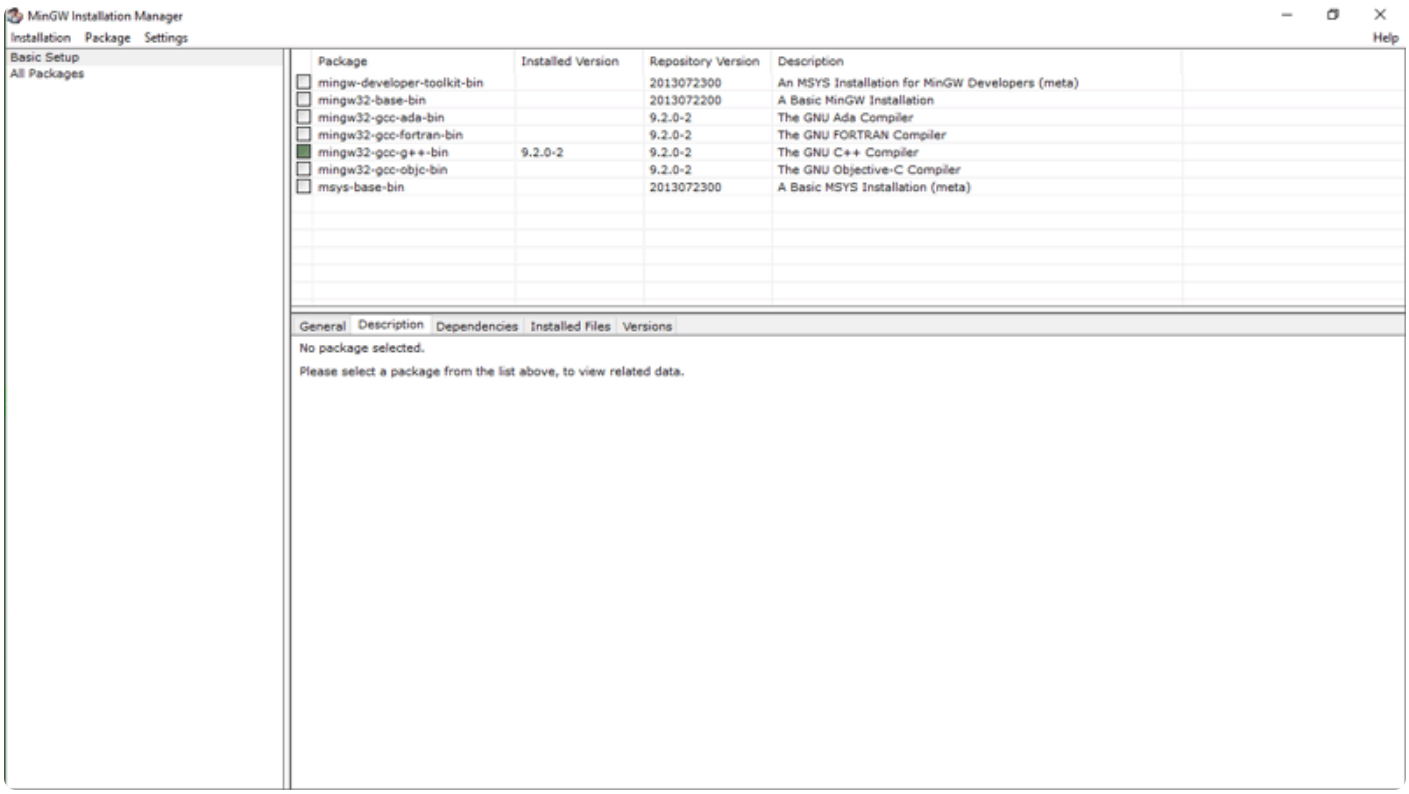
is now down (as of 24th March 2021). Hence, instead of their official website, download from [MinGW SourceForge page](#)

2. Look for **mingw-get-setup.exe** for downloading. Download it and launch the installer. Accept the terms and move on.
3. You'll now see that the installer is connecting to the Internet and downloading a lot of tiny and small files. Wait till it ends.
4. Right when it ends (which won't take long), you'll be presented a window with title **MinGW Installation Manager**. You should be in the 'Basic Setup' tab by default when it launches. If not, click on **Basic Setup**.
5. Out of the numerous check boxes presented to you on the right side, tick "**mingw32-gcc-g++-bin**". If you are prompted with a menu, click on Mark for Install.
6. Then on the top left corner click on **Installation > Apply Changes**. And wait while it downloads a billion files and installs them.



1. Now you gotta edit your "Environment Variables" as well, so that gcc works in cmd no matter the file location.
2. For that go to **Windows Explorer > Right click on This PC > Properties > Advanced system settings > Environment Variables** or you could just search for "Environment Variables" in Windows Search...

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New), else you just need to add ; at the end and add the following path

```
C:\MinGW\bin
```

```
###### (This is assuming you didn't manually change any installation paths and went
```

10. Click on OK, and OK and close the other windows. Open a Command Prompt Terminal and

If you get something like

```
gcc (MinGW.org GCC Build-2) 9.2.0
Copyright (C) 2019 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.
There is NO warranty; not even for MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE.
```

```
gcc has been successfully installed in your PC. Enjoy!
```

Cheers and happy coding!

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or just do `choco install mingw`

Artemii Kravchuk • Apr 24 '23

Thanks, that just saved me a lot of time lol!!!!
I didn't know it was possible, nobody writes about it...

William Cole Boren • May 2 '23 • Edited

self #smh #facepalm

Dev Chaudhary • Feb 28

Amazing (:

Saphira Kai • Dec 8 '21

GCC is not an acronym for GNU C Compiler, that's a misconception. It stands for GNU Compiler Collection, as GCC has support for many languages; including C++, Objective-C, Objective-C++, Fortran, Ada, D, and Go, not just C.

Dev Chaudhary • Feb 28

Good Catch buddy (:

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Thanks for sharing this article. It has great info. After reading this I also found a great article on using Visual Studio Code on Win10 and mingw -- code.visualstudio.com/docs/languag.... It includes links directly to the installation of MinGW so that is helpful too.

James Brown • Oct 16 '21

The mingw.org site is down (as noted above). However, the older SourceForge site has a stale copy. The new site is osdn.net/projects/mingw/

OP, please update the link above in the article to the new site.

Micro Pc Tech Inc • Feb 6

To install the GNU Compiler Collection (GCC) on Windows 10, you can use the MSYS2 environment, which provides a Unix-like shell and a package management system for Windows. Here's a step-by-step guide:

Install MSYS2:

Download the MSYS2 installer from the official website.
Run the installer and follow the on-screen instructions.
When prompted, choose the installation directory (the default is usually fine).
Update MSYS2:

Open the MSYS2 Shell that was installed with the MSYS2 package.

Run the following commands to update the package database and core system packages:
pacman -S mingw-w64-x86_64-toolchain
This may take some time as it updates the system.

Install GCC:

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This will install the GCC compiler and related tools.

Add GCC to the System Path:

Once the installation is complete, you need to add the GCC binaries to the system path so that you can run them from any command prompt.

Locate the installation directory (default is C:\msys64).

Add the bin directory to the system path. You can do this by adding the following line to your system or user environment variables:
C:\msys64\mingw64\bin
Make sure to adjust the path if you installed MSYS2 in a different directory.

Verify Installation:

Open a new command prompt and type the following command to verify that GCC is installed:

bash
Copy code
gcc --version
You should see information about the GCC version.

That's it! You have successfully installed GCC on Windows 10 using MSYS2. You can now use GCC to compile C and C++ programs from the command line.

Stan Sieler • May 4 '21

Hi...your (revised) article worked to perfection, thanks! (Installed gcc on 2021-05-03 on Win 10).

For me, gcc is only 80% of the bits I need ...

I also need: make

and: /usr/include/* (e.g., ,)

thanks!
Stan

Pacharapol Withayasakpunt • Jan 5 '21

I got an error for compiling CGO. Fixed with TDM.

Tingwei • Jan 28 '21

THANK YOU!

sahin52 • Nov 4 '20

You are perfect

Arsalan Mohseni • Sep 3

How do i install pacman on it??

Nandita • Aug 29

thank you

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WORK
Microsoft Learn Student Ambassador, Student at College of Engineering Trivandrum

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Aug 24, 2020

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Customize ANY color in Windows PowerShell

#windowspowershell #windows10 #powershell #customization

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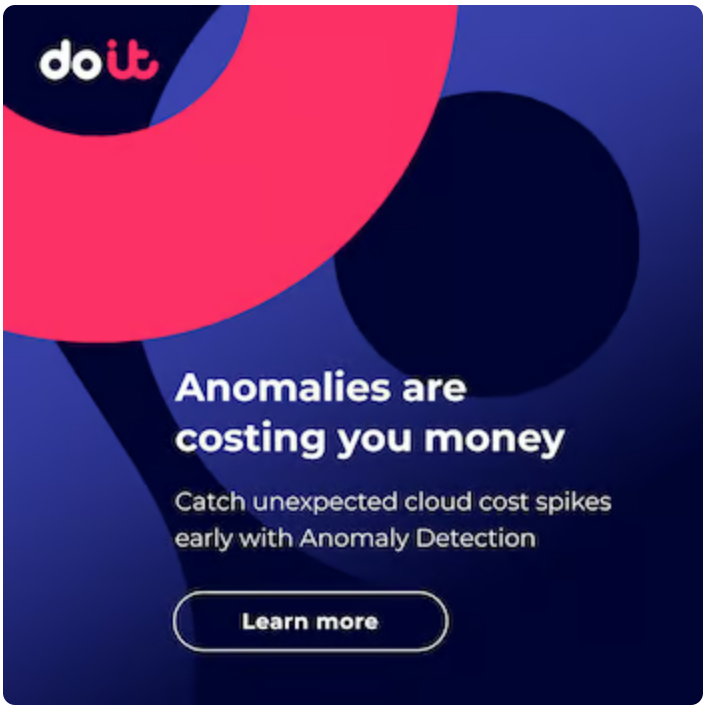

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