

# Visual Studio 2019 Installation along with C and C++ support and GitHub extension

## 1- Install Visual Studio 2019 along with C and C++ support

Follow all 8 steps at the following link:

<https://docs.microsoft.com/en-us/cpp/build/vscpp-step-0-installation?view=vs-2019>

It will take a total of 15 minutes to download

At the installing window make sure the following details are installed:

### Installation details

- ☒ Windows 10 SDK (10.0.18362.0)
- ☒ Just-In-Time debugger
- ☒ C++ profiling tools
- ☒ C++ CMake tools for Windows
- ☒ C++ ATL for latest v142 build tools (x86 & x64)
- ☒ Test Adapter for Boost.Test
- ☒ Test Adapter for Google Test
- ☒ Live Share
- ☒ C++ AddressSanitizer (Experimental)
- ☒ C++ MFC for latest v142 build tools (x86 & x64)
- ☒ C++/CLI support for v142 build tools (14.26)
- ☒ C++ Modules for v142 build tools (x64/x86 – ex...
- ☐ C++ Clang tools for Windows (10.0.0 - x64/x86)
- ☐ JavaScript diagnostics
- ☐ IncrediBuild - Build Acceleration
- ☐ Windows 10 SDK (10.0.17763.0)
- ☐ Windows 10 SDK (10.0.17134.0)
- ☐ Windows 10 SDK (10.0.16299.0)
- ☒ MSVC v141 - VS 2017 C++ x64/x86 build tools (...)
- ☒ MSVC v140 - VS 2015 C++ build tools (v14.00)

It will take a total of about 20 minutes to install

## 2- Install GitHub extension for Visual Studio

Download and install the GitHub extension for Visual Studio by clicking:

<https://visualstudio.github.com/>

### 3- Create Personal Access Token on Github

From August 13, 2021, Github is no longer accepting account passwords when authenticating Git operations. You need to add **PAT (Personal Access Token)** instead, you can follow the below method to add PFA on your system

From your Github account, go to

Settings => Developer Settings => Personal Access Token => Generate New Token (Give your password) => Fillup the form => click Generate token =>

Copy the generated Token, it will be something like  
*ghp\_sFhFsSHhTzMDreGRLjmks4Tzuzgthdvfsrta*

Now follow below method based on your machine:

For Windows OS:

Go to Credential Manager from Control Panel => Windows Credentials  
=> find git:https://github.com => Edit => On Password replace with your Github Personal Access Token => You are Done