Can I run Git commands in Visual Studio?

Asked 4 years, 7 months ago   Modified 5 months ago   Viewed 105k times

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I am using Visual Studio Team Explorer with git integration for source control. It works pretty well but sometimes I need to run some more advanced git commands so I am going to file explorer and opening git bash. Can I run git commands inside Visual Studio?

Using Visual Studio 19.

git   visual-studio   visual-studio-2019

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edited Jul 23, 2020 at 6:00

asked Jul 23, 2020 at 5:28

De Deivydas Voroneckis
Voror **2,513** 5 28 45

I'm not user of VS but as long as you can run commands in the terminal - you should be able to run git commands. Quick google search suggests you can code.visualstudio.com/docs/editor/integrated-terminal – Anton Belev Jul 23, 2020 at 6:41

1   @AntonBelev the link you attached is about VS Code – Deivydas Voroneckis Jul 23, 2020 at 7:39

8 Answers

Sorted by: Highest score (default) ⇕

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You can use the Package Manager Console (in the bottom tab in VS) to run Git commands. see here

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answered Jul 23, 2020 at 6:46

Viknesh
193 10

9   Doesn't work. Says "git is not recognised". But VS git exists, because in VS, I could use menu to things like commit. – Damn Vegetables Nov 17, 2022 at 20:40

15

The Git integration in Visual Studio does not offer any terminal or ability to manually run Git commands. Using other means to obtain a terminal (ex: Package Manager Console as mentioned above) is a workaround for some Git commands.

You will run into some issues, though. For example, commands that present paged output (ex: Press key to continue) often do not work properly in the Package Manager Console. They may scroll all the way to the end of their results rather than breaking on page boundaries since they can't tell the size of the Package Manager Console tool window. There are some other little annoyances that you may encounter as well.

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edited Jul 23, 2020 at 16:00

Dharman ♦
33.4k 27 101 147

answered Jul 23, 2020 at 15:55

Chad B
1,506 9 13

13

Update: *Visual Studio 2022*

- Open Visual Studio 2022
- Find `git` options from top left 4
- Click `Open in command prompt`

Basically it opens a `cmd` command prompt but it will work as git. Check `git --version` if you have already installed any version of git or not.

NB: Before using this feature, you should have installed any version of git

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edited Nov 22, 2022 at 15:31

answered Jun 24, 2022 at 4:26

mhhabib
3,121 1 19 33

6   Doesn't work. Says "git is not recognised". But VS git exists, because in VS, I could use menu to things like commit. – Damn Vegetables Nov 17, 2022 at 20:39

     Do you have installed any git version in your PC? Or did you add the git path in `System Environment Variable` path? – mhhabib Nov 22, 2022 at 7:54

4   No, I had not install separate git, but just VS. After posting this, I found an post that said that VS's GIT does not provide any command-line, so I just installed the official GIT (the top search result of "git" on Google). – Damn Vegetables Nov 22, 2022 at 12:08

     Same issue as @DamnVegetables – Zimano Jan 19, 2023 at 15:38 ✏️

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Git [became the default revision control system](#) with the update of Visual Studio 2019 to version 16.8 in November 2020. I'm aware of two main ways to start a git command prompt using 16.8 or newer:

1. Right click the solution and choose Open in Terminal. This starts a PowerShell instance which docks (by default) at the bottom of Visual Studio and can be used to invoke system git.

2. Git -> Open Repository in -> Command Prompt from the main menu (the top level Git menu is between the View and Project menus) opens a cmd.exe instance which also uses the system git installation.

Other methods of access include the options under Tools -> Command Line in the main menu. Starting a git command prompt through Team Explorer was removed Visual Studio 16.8. A functionality moved message is displayed instead.

As of 16.9.1, Visual Studio does not check that a system git installation is present (in C:\Program Files\Git by default). If no system git has been installed by the Git for Windows Visual Studio component or some other tool neither of the pathways described here will work. Thus, this part of Visual Studio's functionality can potentially be broken out of the box.

Share   Improve this answer   Follow   answered Mar 11, 2021 at 0:50

                                                                                           Todd West
                                                                                           376   2   9

     Within the "Developer PowerShell" window open as described above, there's (in v17.9) a drop down that lets you chose "Developer Command Prompt" if you really want a CMD rather than PS inside VS. – fdomn-m Aug 9, 2024 at 9:17

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I wanted to use git cmd in Visual Studio 2022 without installing the client, but the cmd didn't recognize git commands.

I solved this by adding the git installed with Visual Studio 2022 to Path environment variable.

Just go to the Visual Studio installation location and search for git, then add the directory to Path environment variable.

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answered Oct 24, 2023 at 8:33

Ahmed Hesham
116   1   2

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Type "git status" instead of typing "$ git Status"

STEP 1: Go to VS 2019 -> Git -> Open Repository in -> Command Prompt

STEP 2: Go to VS 2019 -> View -> Other window-> package manager console

STEP 3: Go to VS 2019 -> View -> Terminal ->

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edited Jul 5, 2024 at 7:36   answered Jul 5, 2024 at 7:27

Richard Dennis
11   3

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For the Visual Studio 2022 community, I create a batch file with my tools in the or set by environment variables and include ...

```
set GIT_EXE="C:\Program Files\Microsoft Visual
Studio\2022\Community\Common7\IDE\CommonExtensions\Microsoft\TeamFoundation\Team Explorer\Git\mingw64\bin\git.exe"
```

Then I can run `%GIT_EXE% <command>` from any command prompt. This works fine for more advanced git commands that you need.

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edited Oct 8, 2024 at 6:12   answered Oct 6, 2024 at 11:40

Mahyar Mottaghi Zadeh   Tom Hansen
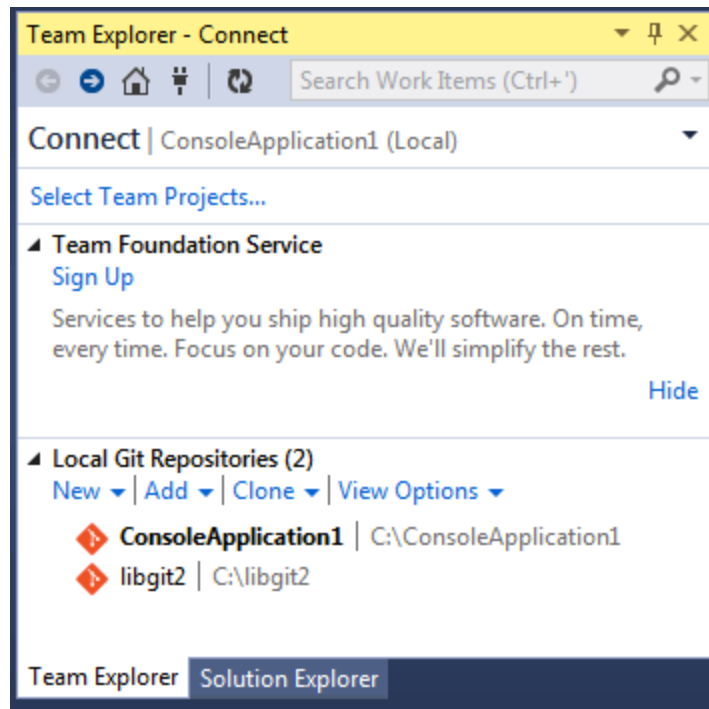**1,319**   6   21   33   **11**   2

For me it was in "Professional", not "Community", other than that, this path to the bundled Git worked for me: `C:\Program Files\Microsoft Visual Studio\2022\Professional\Common7\IDE\CommonExtensions\Microsoft\TeamFoundation\Team Explorer\Git\mingw64\bin\git.exe` – Matthew Mar 5 at 21:40

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Visual Studio 2013 Update 1 through Visual Studio 2019 version 16.7 have a git client built into Team Explorer. To locate the feature, open a project that's controlled by Git (or just git init an existing project), and select **View->Team Explorer** from the menu. You'll see the "**Connect**" view, which looks a bit like this:

You can read more about it here: https://devblogs.microsoft.com/devops/use-the-git-command-prompt-to-supplement-visual-studio/

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edited Mar 11, 2021 at 15:02

Todd West
376 2 9

answered Jul 23, 2020 at 6:37

Syed Mustaqhim
380 7 18

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