Installation setup for Git

Prerequisites for Installing Git and Git Bash

Before installing Git and Git Bash, you must have these in your system:

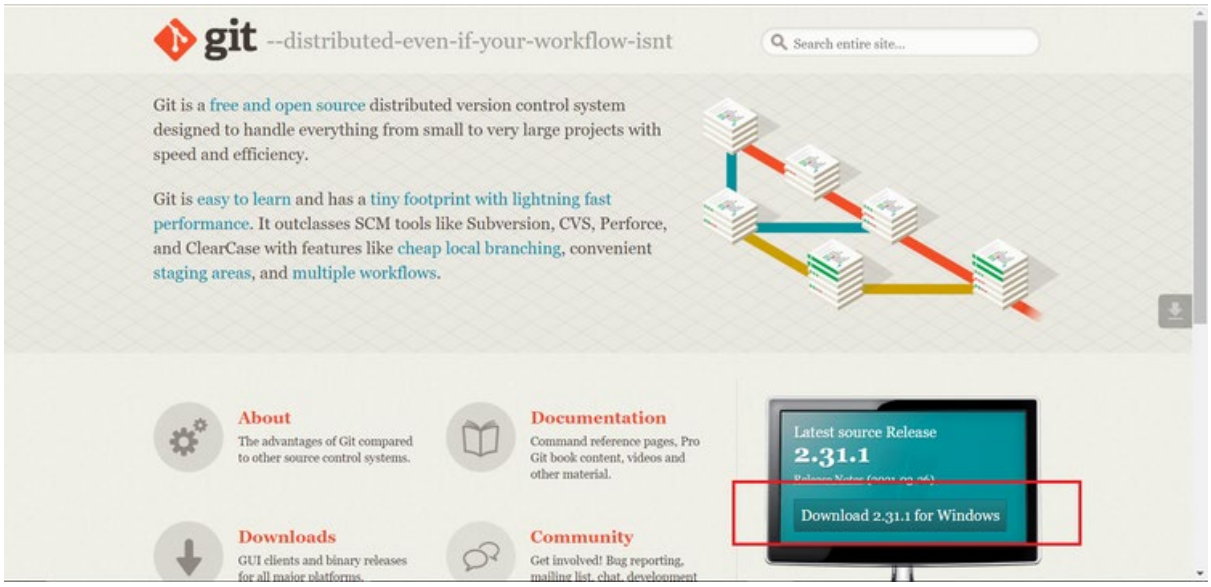
- Administrator privileges
- Command-Line access
- Coding text editor
- GitHub Username and Password

Download and Install Git for Windows

You can download Git and Git Bash on Windows by following these simple steps:

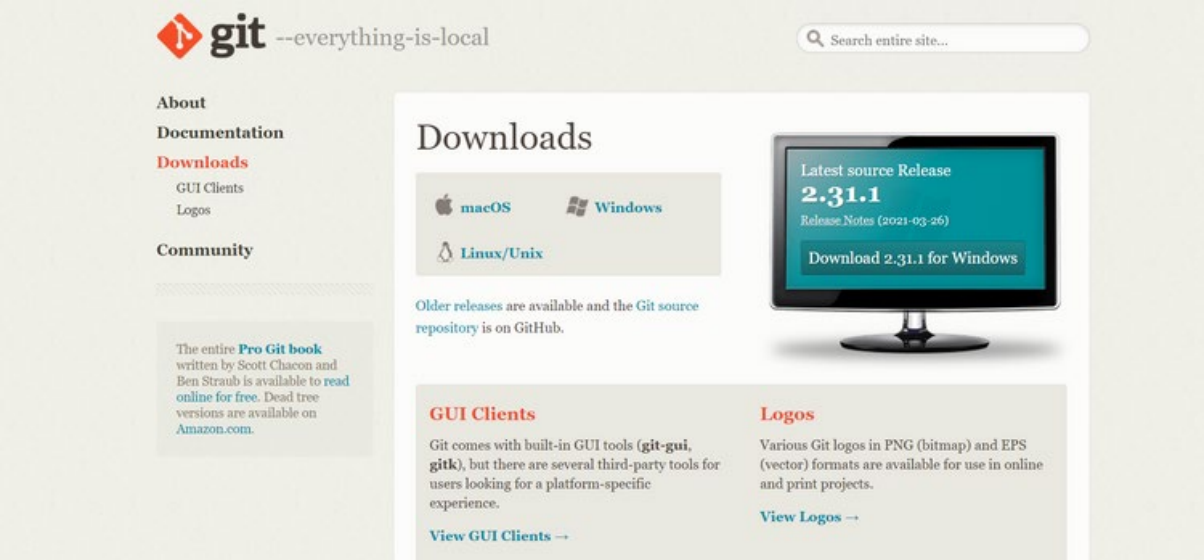
Step 1: Go to the Official Git Website

Visit the official website for **Git** and click the **Download [version] for Windows** button. The download will be started automatically after you click the button.

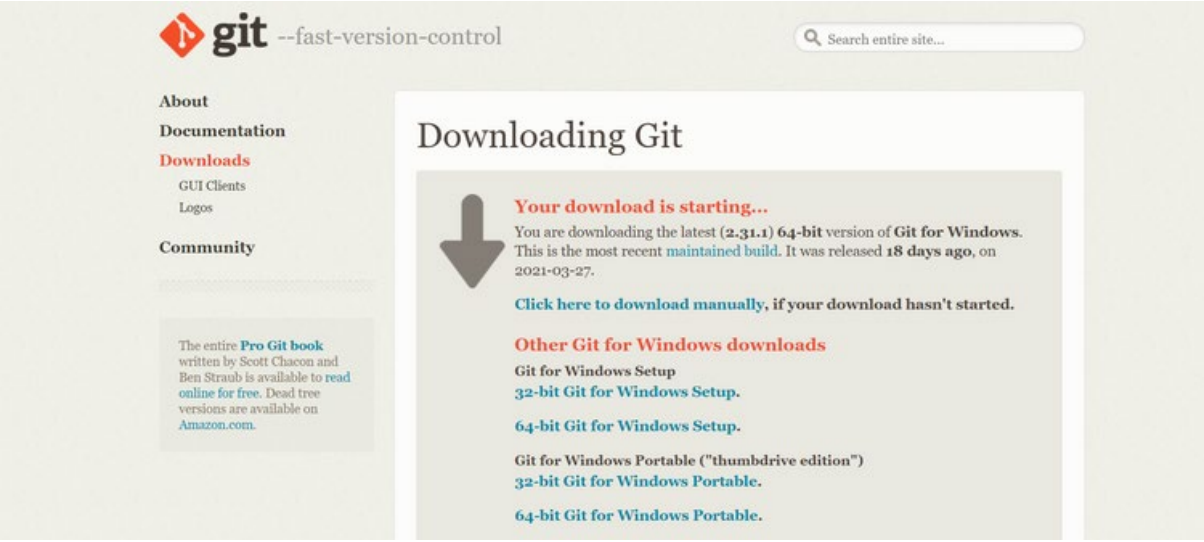


Alternatively, you can visit the downloads page of the official Git Website by clicking the **Downloads** button.

Click on the **Windows** button to start the download automatically.



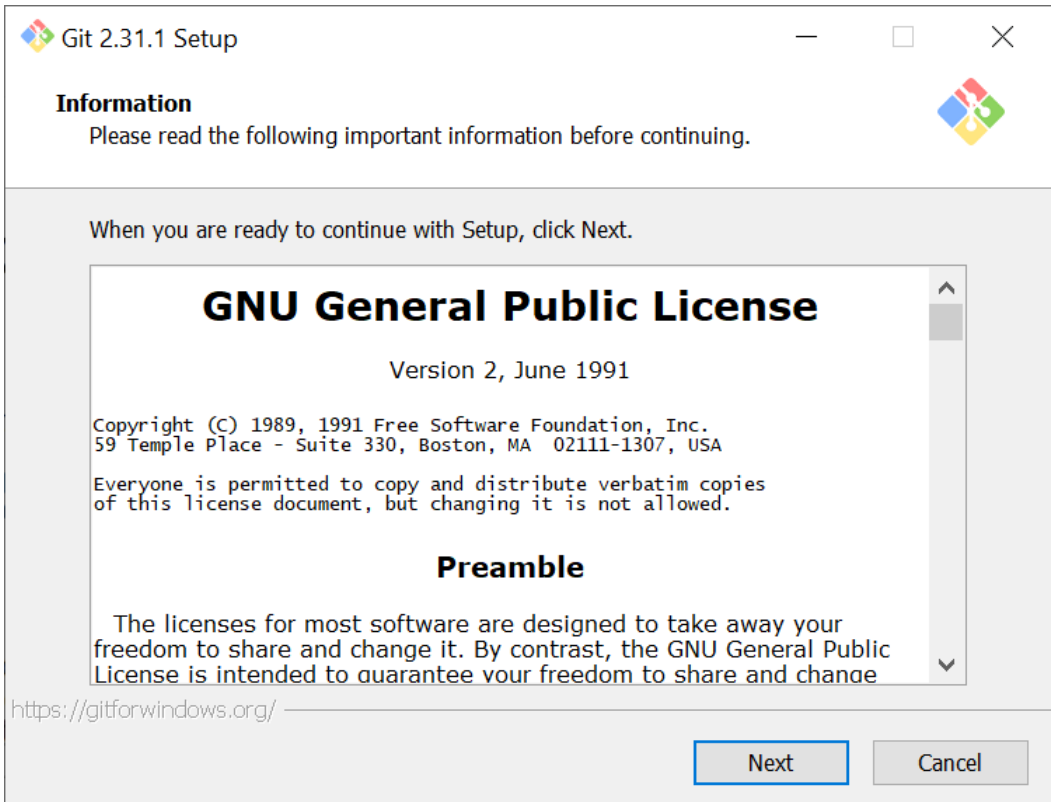
If the download doesn't start automatically, click on the **Click here to download manually button**.



Step 2: Run the Downloaded File

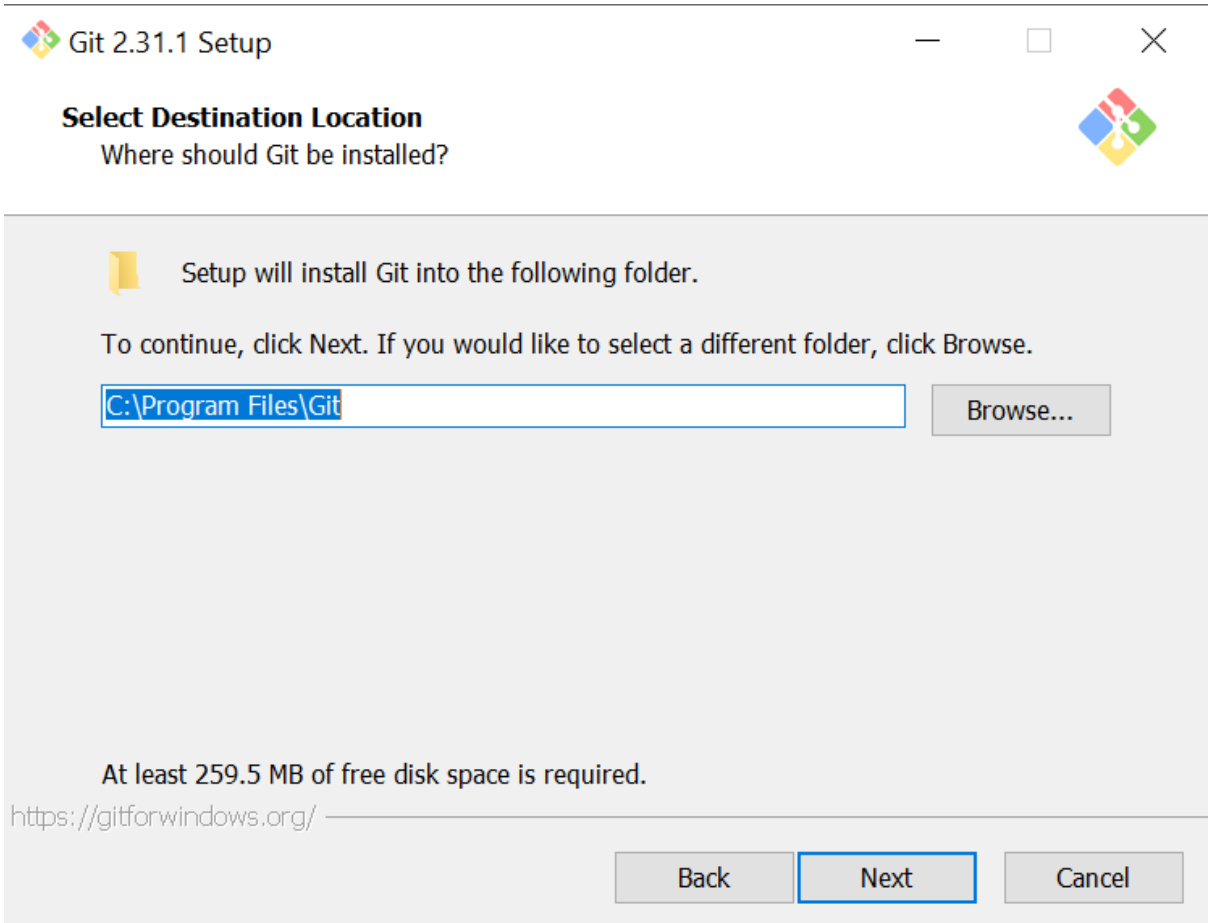
After you've downloaded the executable file, click on it to run the installer. A pop-up window asking permission to make changes to the device will be displayed. Click on **Yes** to accept the request. After that, the Git Setup window will be opened.

Carefully read the License and then when you're ready, click the **Next** button.



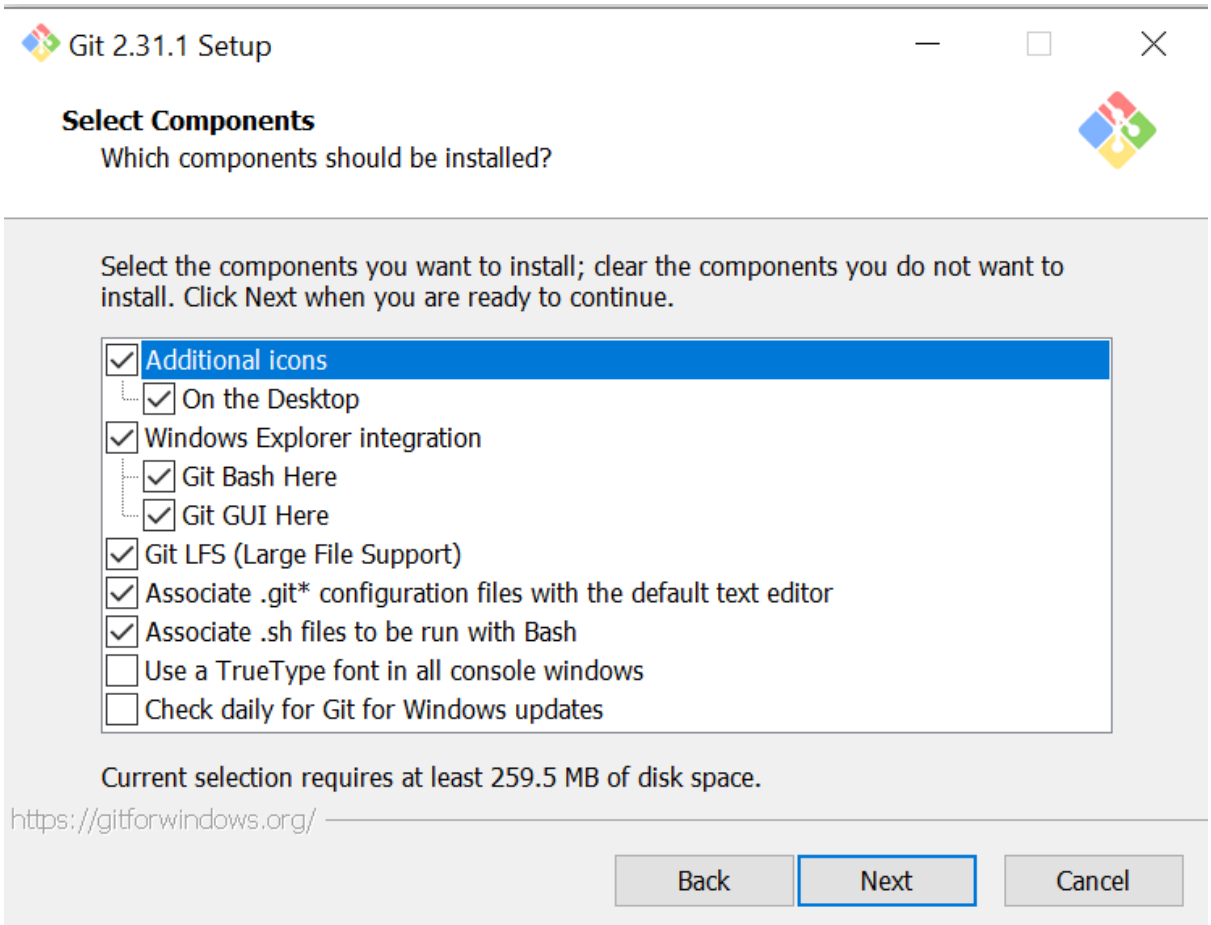
Step 3: Select Destination Location

Click on the **Browse...** button to select the destination location where you want to install Git. By default, it'll install to **C:\Program Files\Git**. Click on the **Next** button after you've chosen your destination location.



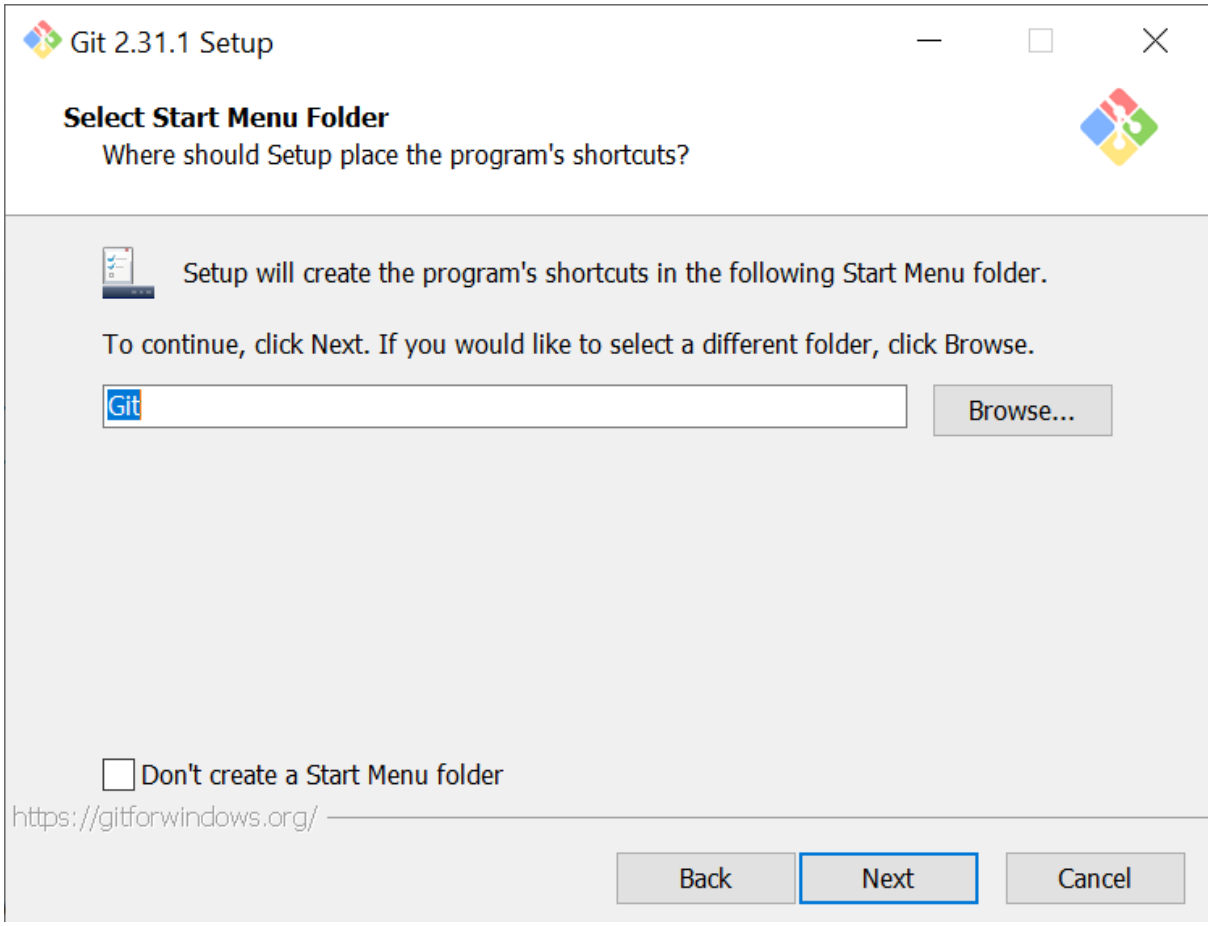
Step 4: Select Components

Click on the checkbox to install additional components such as a desktop icon. But if you prefer, you may proceed with default settings. Also, make sure that the "Git Bash Here" checkbox is checked. Hit the **Next** button to move to the next step.



Step 5: Select Start Menu Folder

If you'd like, you may change the start menu folder name. It's headache-free to keep it as it is, however. Click **Next** to proceed with further steps.



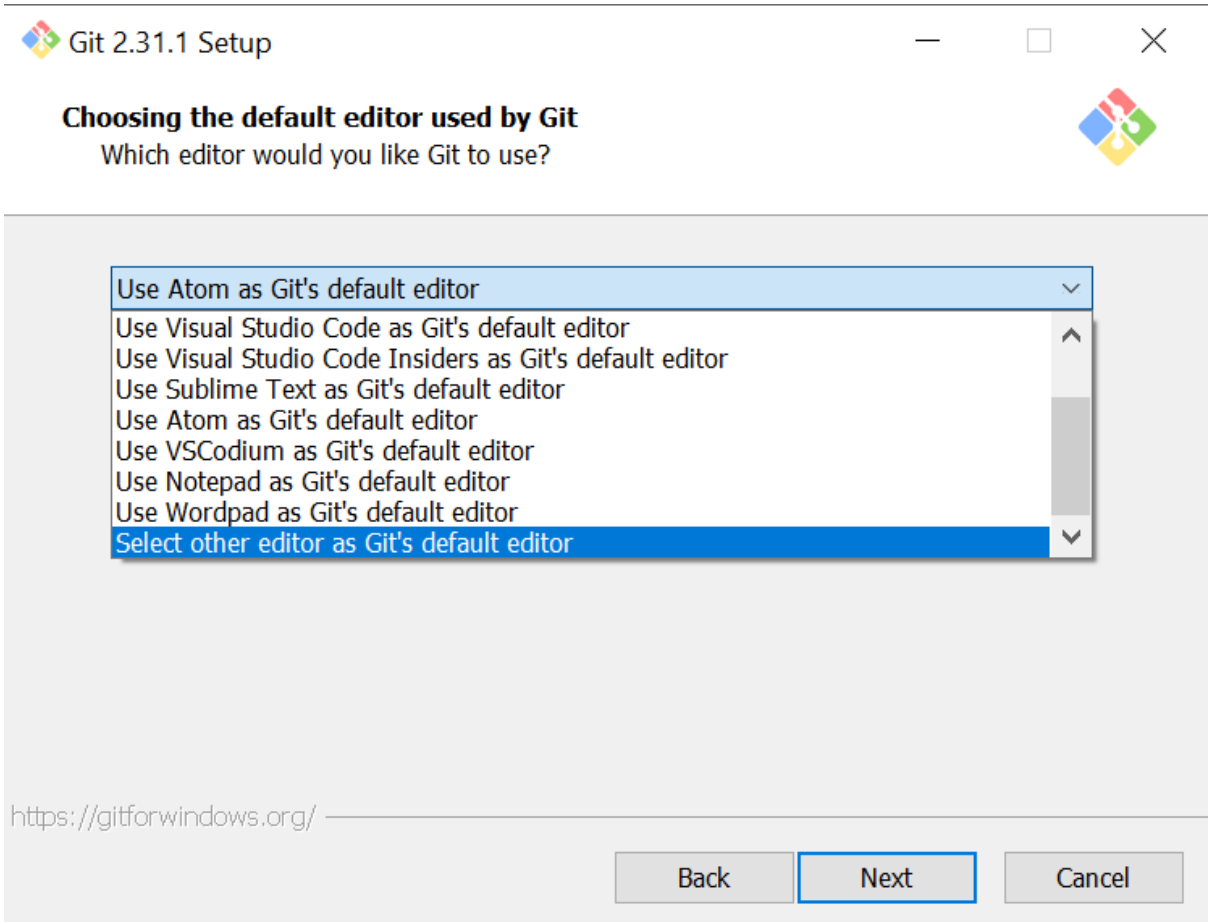
Step 6: Choose the Default Editor to be Used by Git

Choose the default text editor you want Git to use among various available options like Vim, Atom, Visual Studio Code, Sublime Text, Notepad, Wordpad, etc.

It's recommended to use **Visual Studio Code or Atom** as a default editor as they are the most widely used editors and have various cool features. Also, Vim is not recommended for beginners because it has a steep learning curve.

PS: (I have chosen Vim and this doesn't affect too much. So, don't worry, just choose the one that suits you the most)

Click on the **Next** button to proceed further.

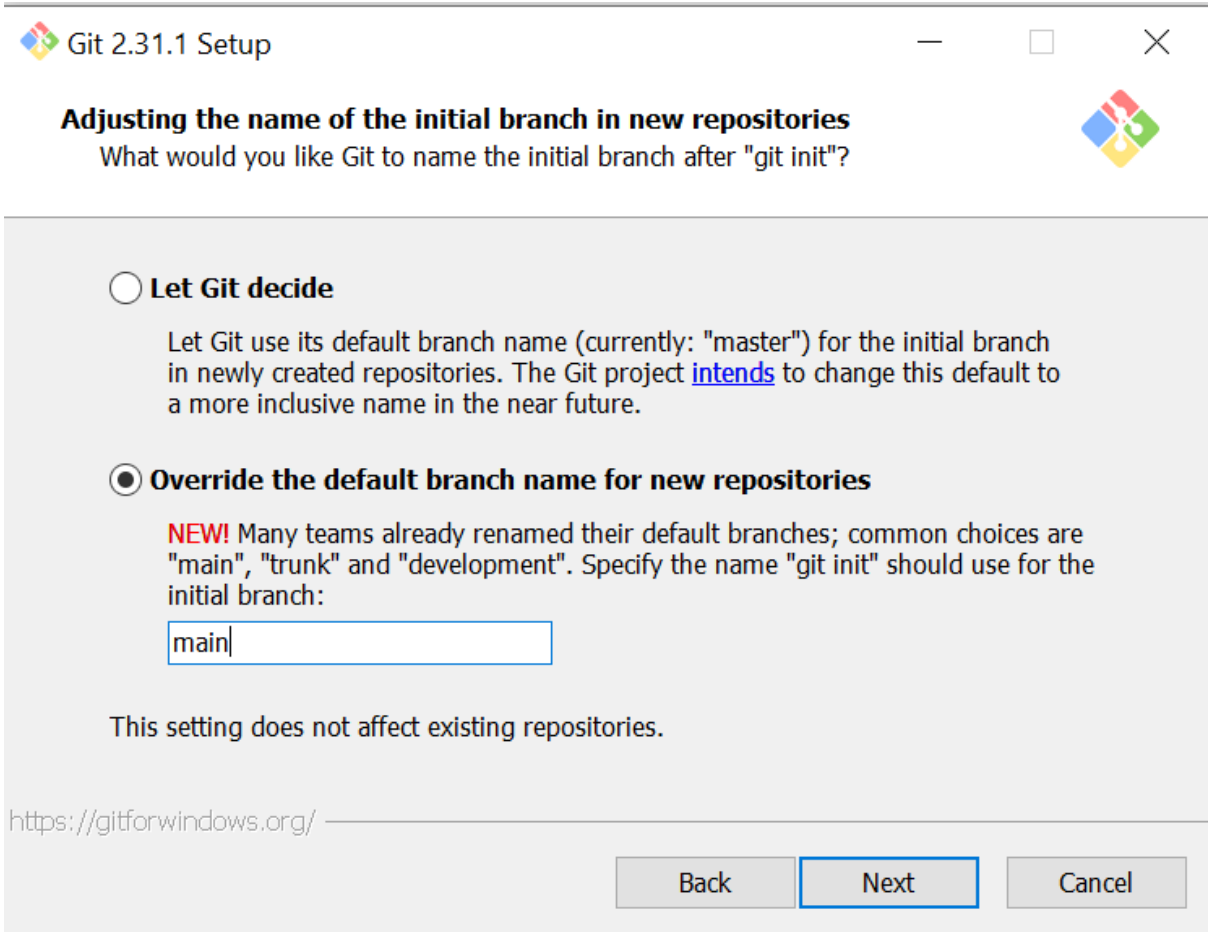


Step 7: Adjusting the Name of the Initial Branch in New Repositories

It's recommended to select **Override the default branch name for new repositories** and use **main** as the default initial branch name.

The "git init" command will use the same initial branch name while initializing repositories. You can also use any other initial branch names like "default", "primary", "develop", "stable", "release", etc. It completely depends on what suits you best.

Finally, click the **Next** button to proceed after specifying the branch name.

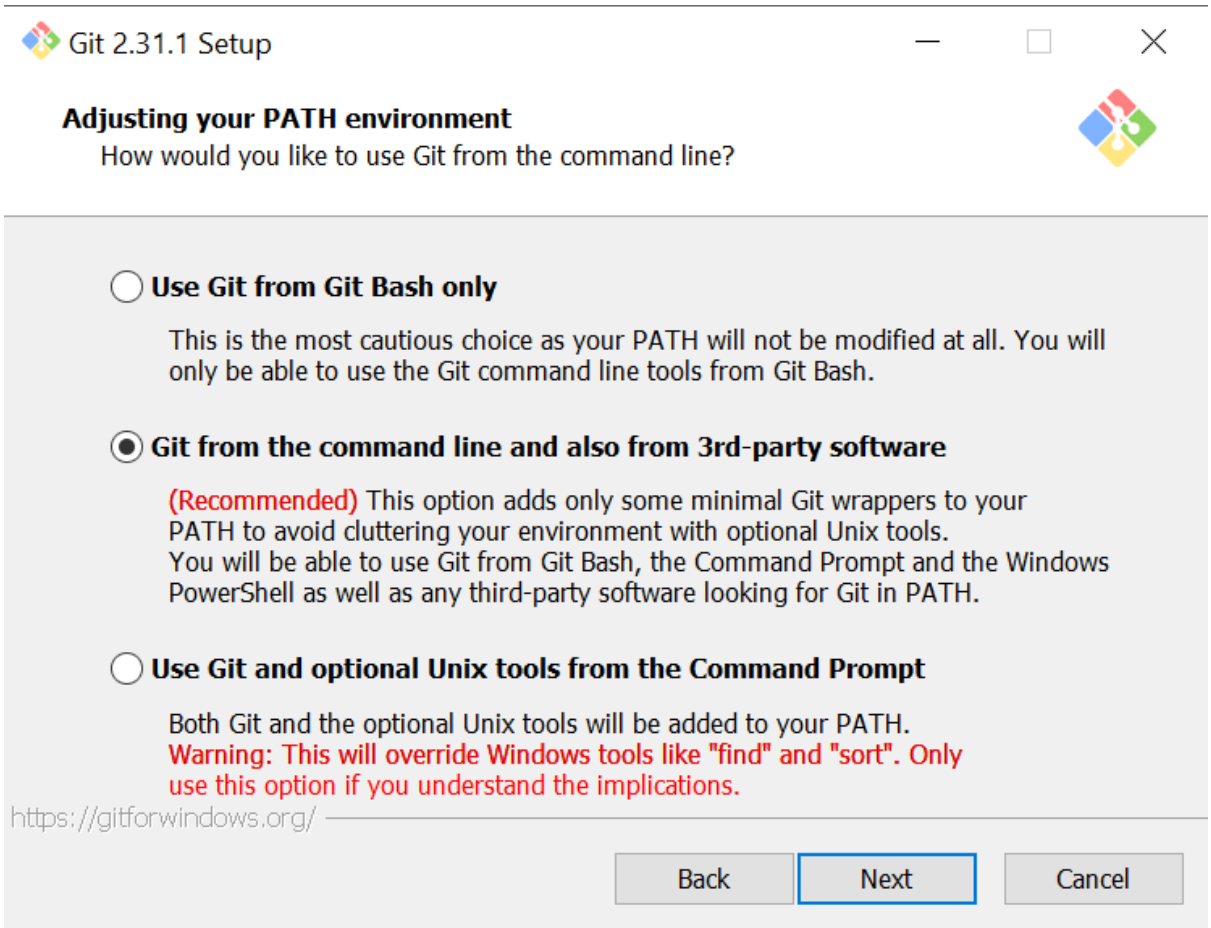


It used to be that "master" was used as the default initial branch name for GitHub repositories. But now it's changed to "main" as some people found "master" an offensive word. GitHub followed the Software Freedom Conservancy's suggestion and moved away from the term "master" when a Git repository is initialized.

Step 8: Adjust Your PATH Environment

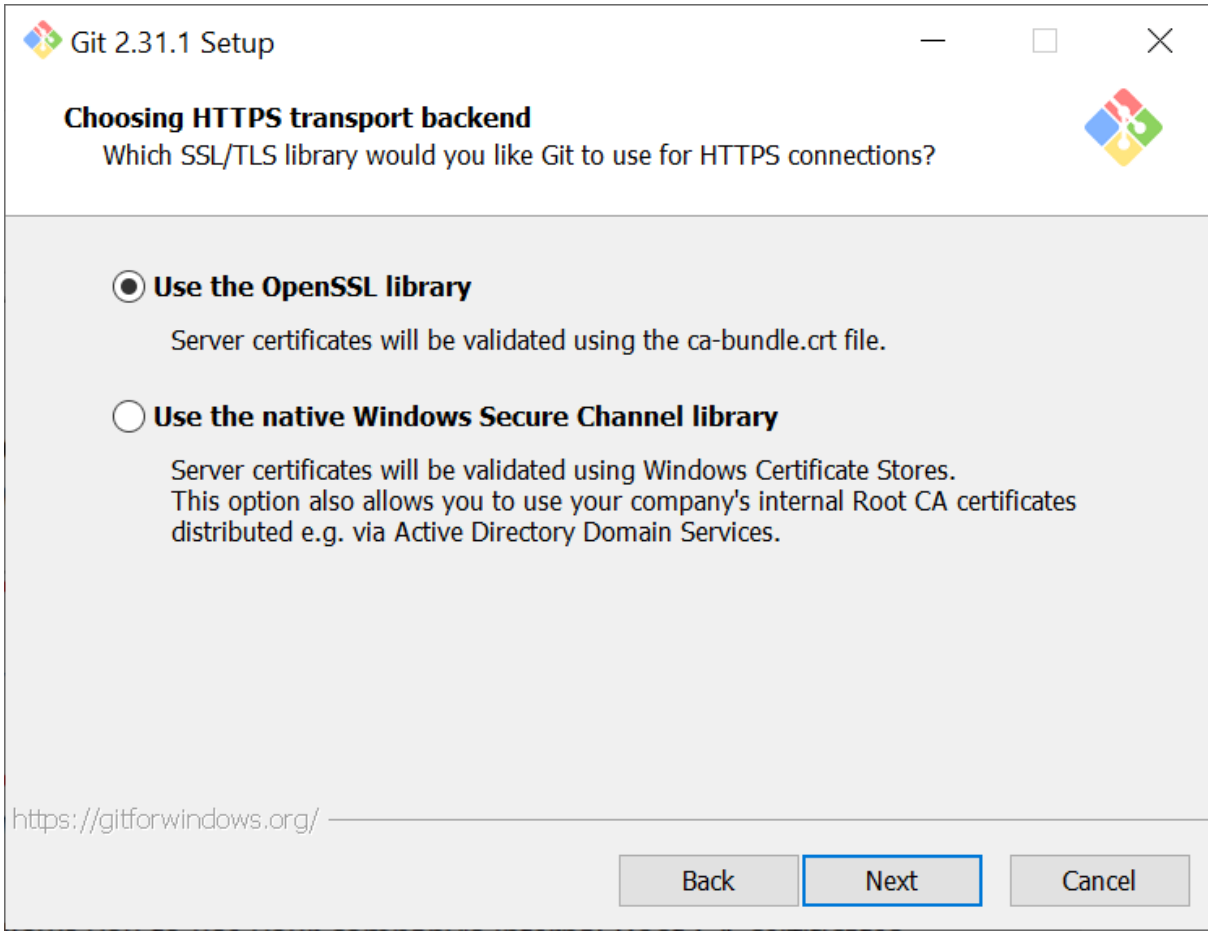
Select the 2nd option **Git from the command line and also from 3rd-party software**. By selecting this option you will be able to use **Git** from the **Git Bash**, the Command Prompt, the Windows Powershell, or any other 3rd party software looking for Git in PATH.

Hit the **Next** button to proceed.



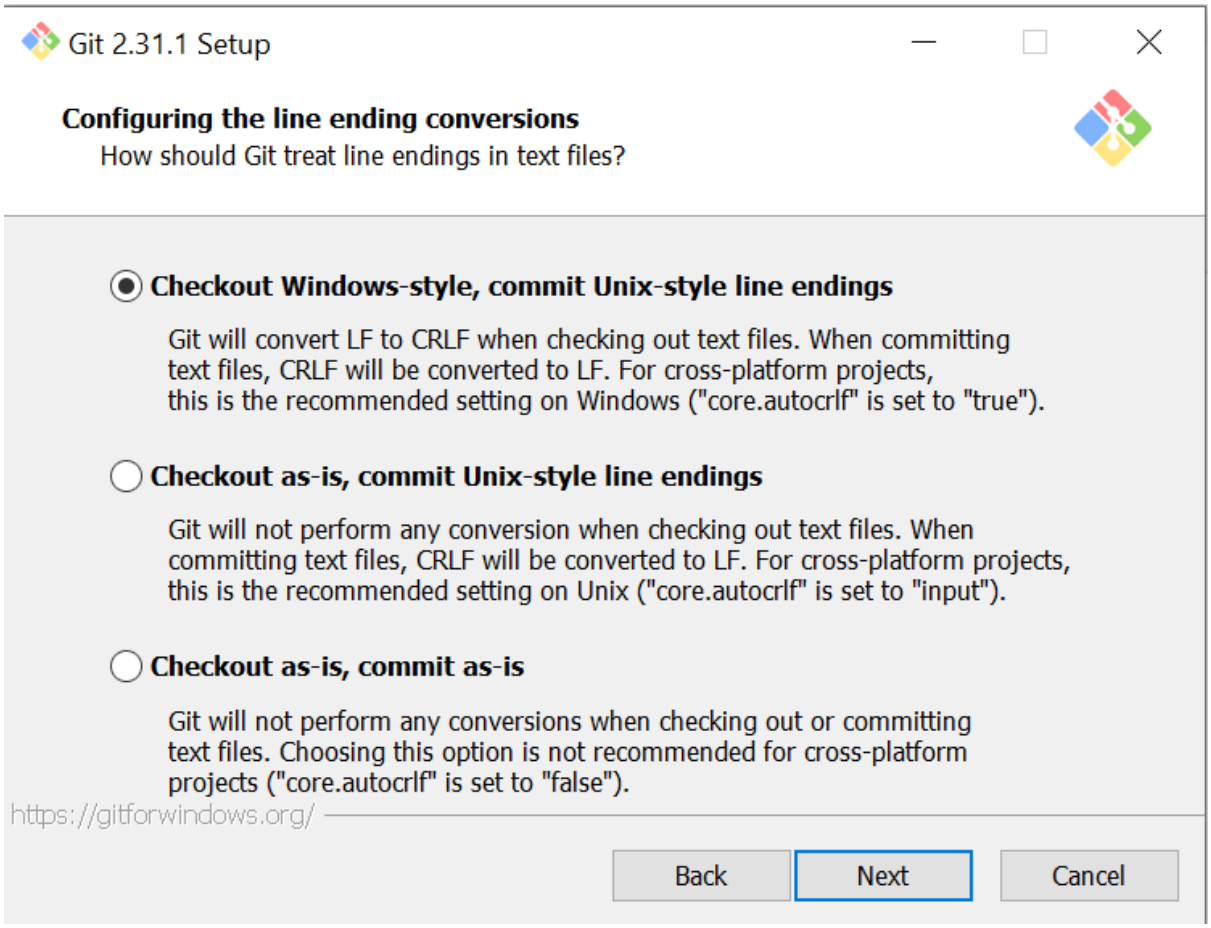
Step 9: Choosing HTTPS Transport Backend

Select the **Use the OpenSSL Library** option and click **Next**.



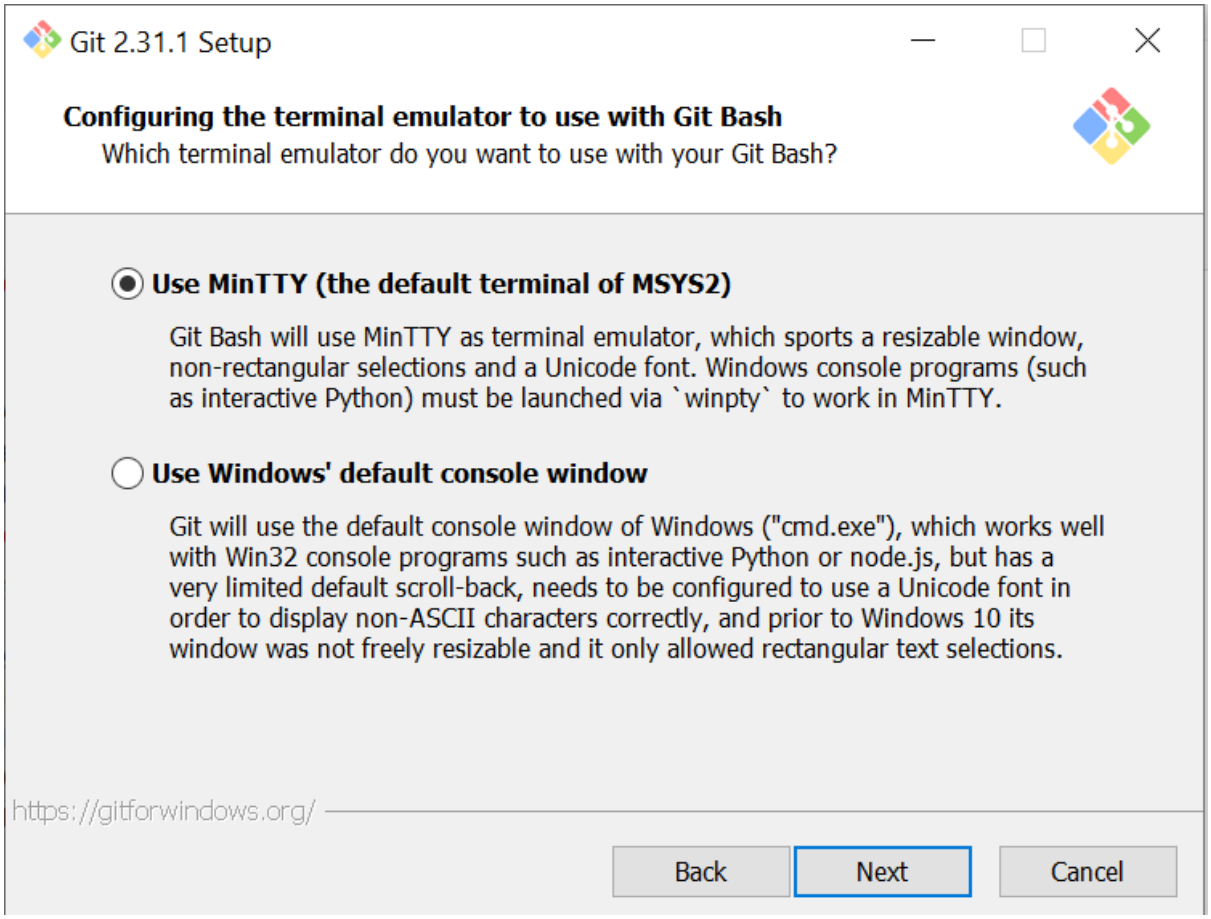
Step 10: Configuring the Line Ending Conversions

Proceed with the by default selected option **Checkout Windows-style, commit Unix-style line endings** and then click **Next**.



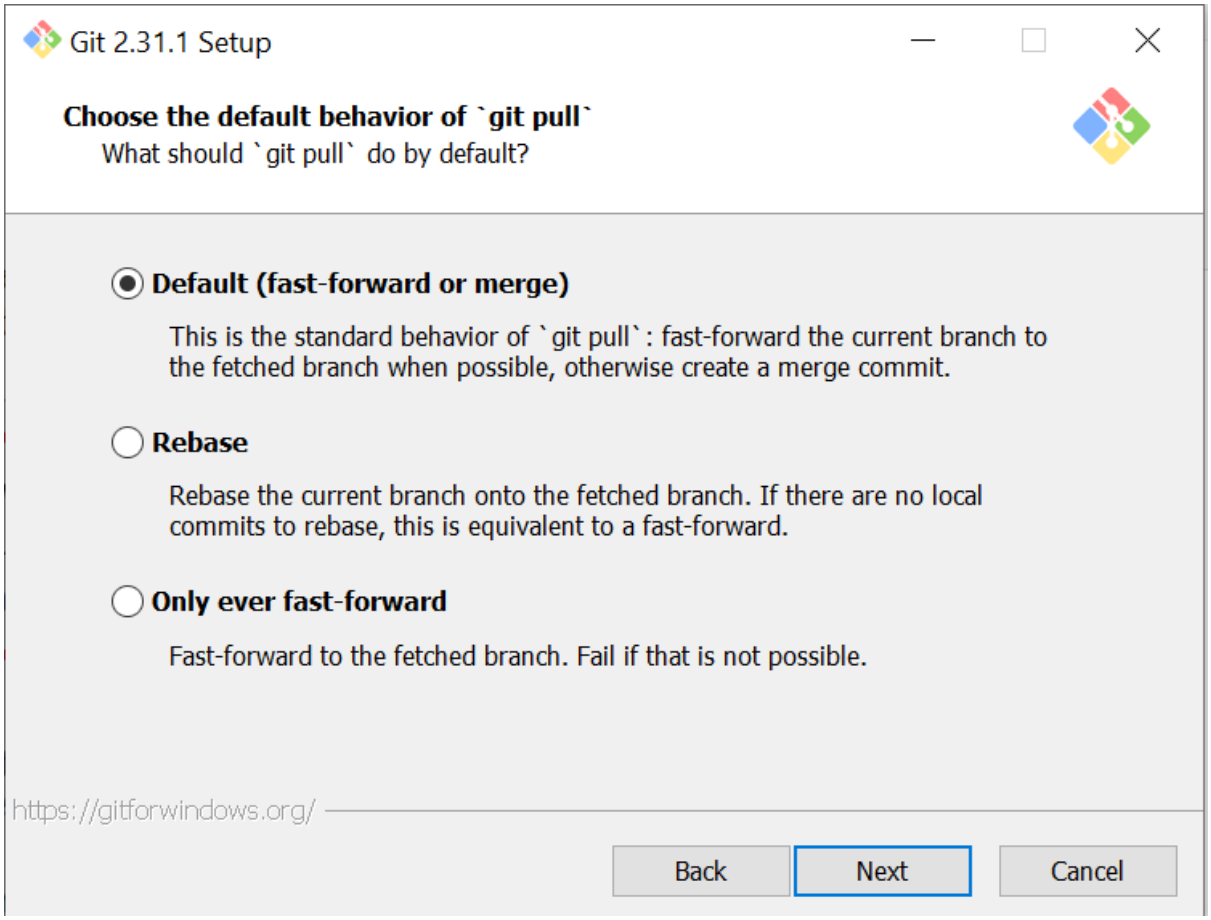
Step 11: Configuring the Terminal Emulator to Use With Git Bash

Again proceed with the default selected option **Use MinTTY (the default terminal of MSYS2)** and then click **Next**.



Step 12: Choose the Default Behaviour of "git pull"

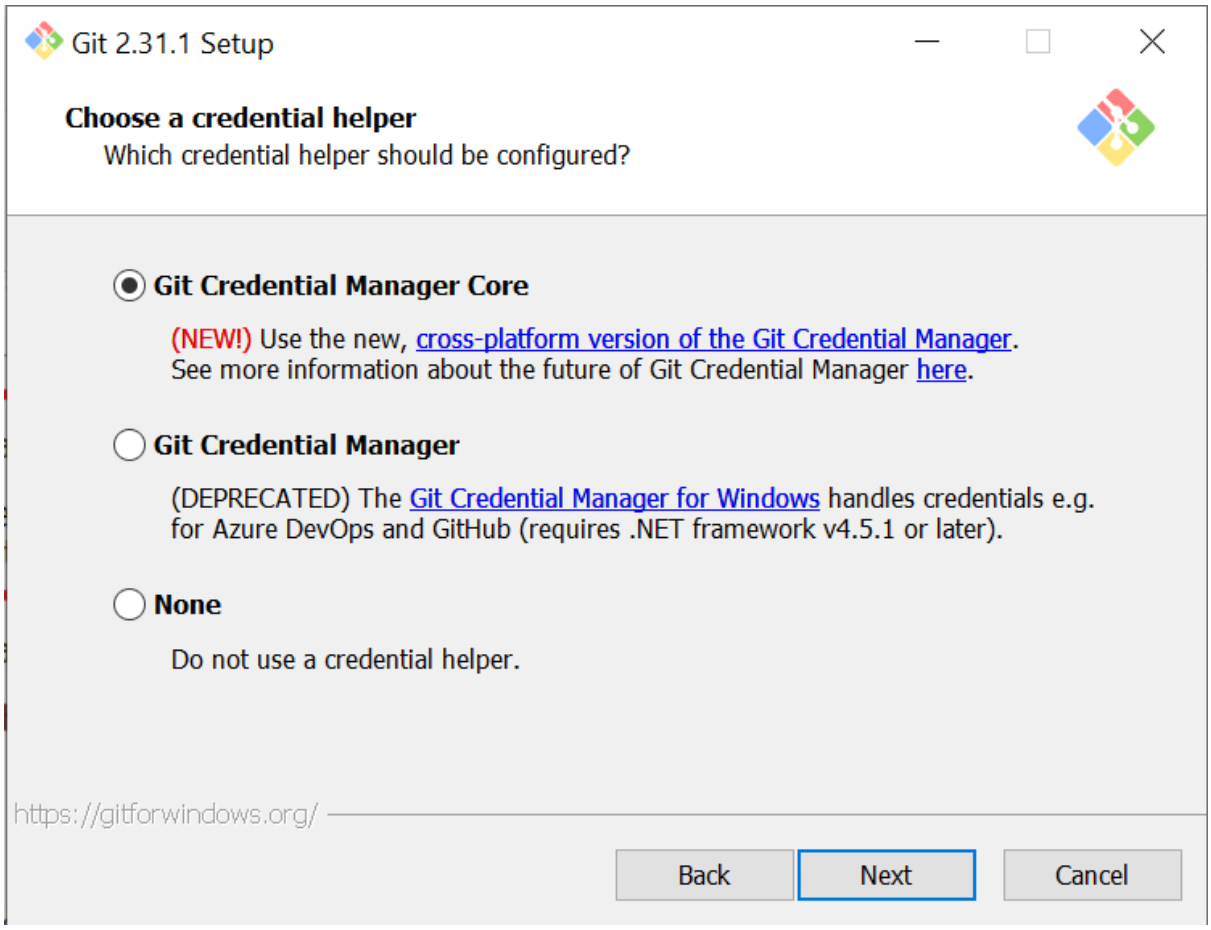
Select the first option **Default (fast-forward or merge)**. By selecting this option, when "git pull" is used, it'll fast-forward the current branch to the fetched branch. If it's not possible to do so, it'll create a merge commit.



Step 13: Choose a Credential Helper

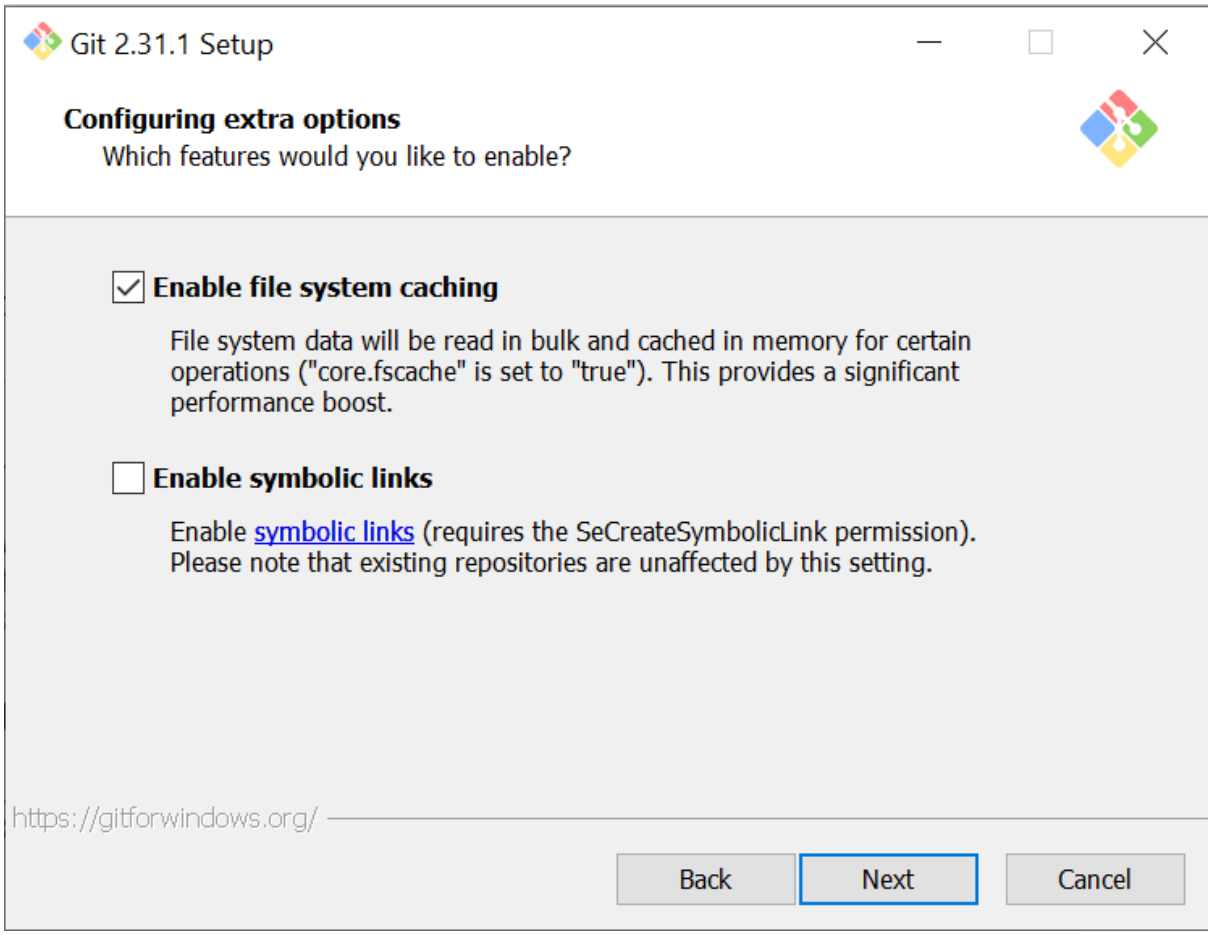
We highly recommended selecting the first option, **Git Credential Manager Core**, as it provides a consistent authentication experience across all platforms.

After that, click the **Next** button to proceed.



Step 14: Configuring Extra Options

Proceed further with the by default selected options and then click **Next**.

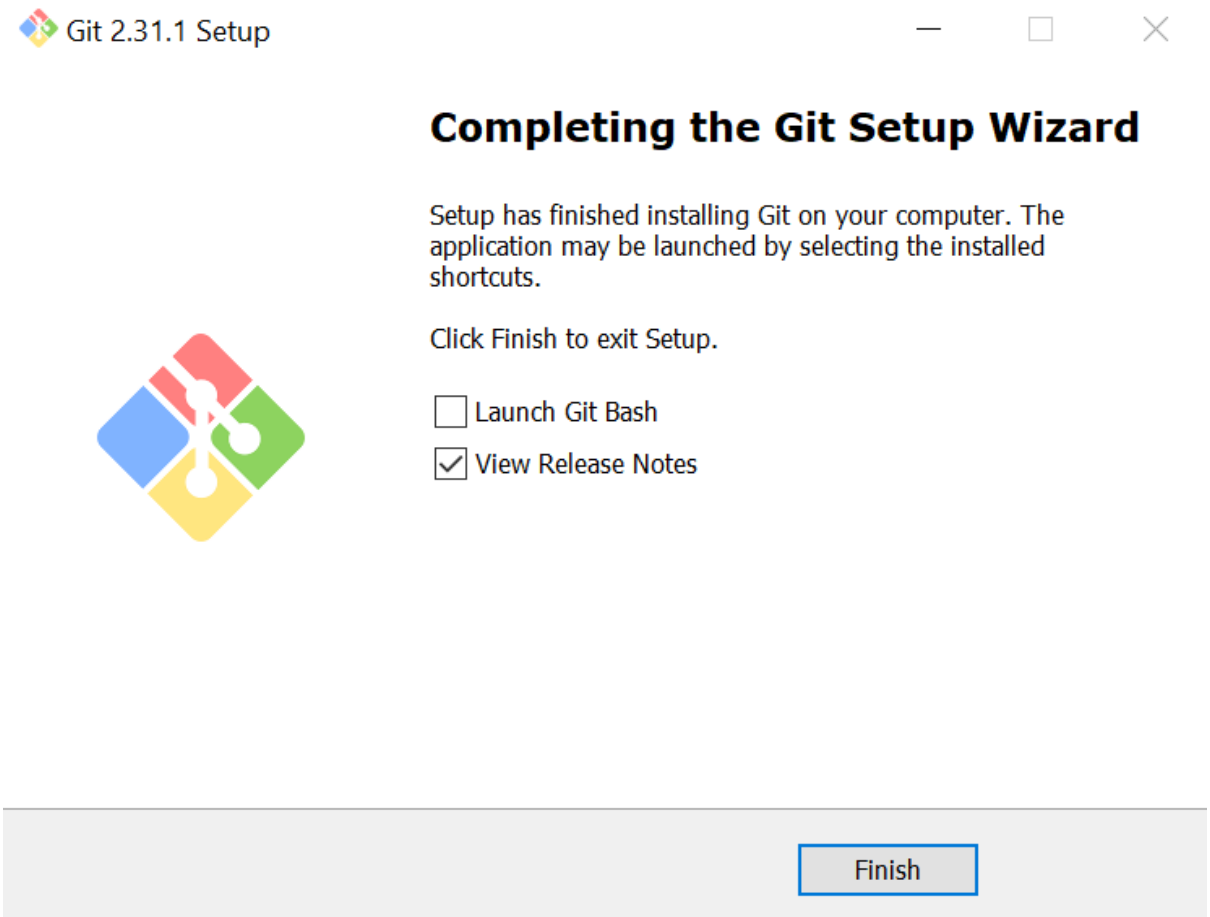


Step 15: Configuring Experimental Options

If you want to enable some bleeding-edge features with this installation then you can select any of the available options. Finally, click the **Install** button.

Step 16: Wait for Installation

Wait for few minutes as the Setup installs Git and Git Bash on your system. After the installation is complete, click **Finish** to exit Setup.

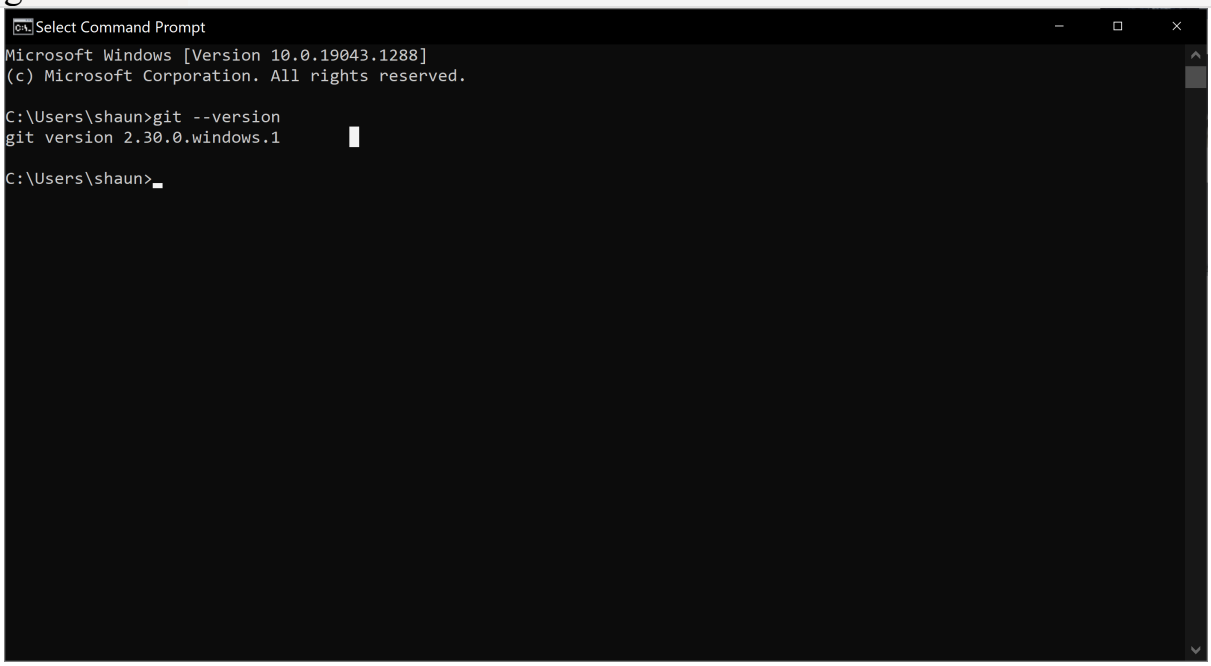


Now Git and Git Bash is successfully installed on your computer!

Confirm That Git Is Successfully Installed

Open the Command Prompt and enter the following command to verify that Git was successfully installed.

```
git --version
```



Configure Git

The next step is to configure Git by adding your credentials to the system. This is important as it helps keep track of which user is committing changes to a project.

Open the terminal and configure your GitHub username:

```
git config --global user.name "your_github_username"
```

Then, add your email:

```
git config --global user.email "your_email@github.com"
```

Once done, you can confirm that the information is set by running:

```
git config --list
```

Output:

```
User.name = your_github_username
User.email = your_email@github.com
```

Congratulations, you have finish git setup, and you are ready to go.

See you in the workshop 😉

For Mac OS user, please refer this link

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