

Git Installation Guide for Windows

1. Download Git for Windows

Go to <https://git-scm.com/downloads> and download the installer for Windows.

2. Start the Installer

Run the downloaded .exe file and follow the installation steps. Click 'Next' at each screen unless specified below.

3. Select Components

- Additional icons (optional)
- Windows Explorer integration
- Git LFS (recommended)
- Associate .sh files to be run with Bash
- Use a TrueType font in all console windows
- Check daily for updates
- Add Git Bash profile to Windows Terminal

4. Choosing the Default Editor

- Recommended: Visual Studio Code (if installed).

This makes editing config files or writing commit messages much easier.

5. Adjusting the Initial Branch Name

- Select 'Override the default branch name' and type: main.

This ensures all new repositories use 'main' as their default branch.

6. Adjusting Your PATH Environment

- Select: 'Git from the command line and also from 3rd-party software'.

This allows you to use Git from CMD, PowerShell, VSCode, and others.

7. Choosing the SSH Executable

- Select: 'Use bundled OpenSSH'.

This is more stable and compatible with GitHub and other Git servers.

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8. Choosing the HTTPS Transport Backend

- Select: 'Use the OpenSSL library'.

This ensures maximum compatibility and consistent behavior across platforms.

9. Configuring Line Ending Conversions

- Select: 'Checkout Windows-style, commit Unix-style line endings'.

Best option for working in Windows while maintaining cross-platform compatibility.

10. Configuring the Terminal Emulator

- Select: 'Use MinTTY (default)'.

Provides a modern, flexible terminal for Git Bash.

11. Choosing the Default Behavior of git pull

- Select: 'Rebase'.

Keeps your history clean and linear. Preferred for solo development and professional workflows.

12. Choosing a Credential Helper

- Select: 'Git Credential Manager'.

Stores your credentials securely and enables easy GitHub authentication.

13. Configuring Extra Options

- Enable file system caching (recommended)
- Do not enable symbolic links unless you know you need them.

14. Complete the Installation

Click 'Install'. Wait for the process to finish, then click 'Finish'. You're ready to use Git on Windows!