

Installing Git

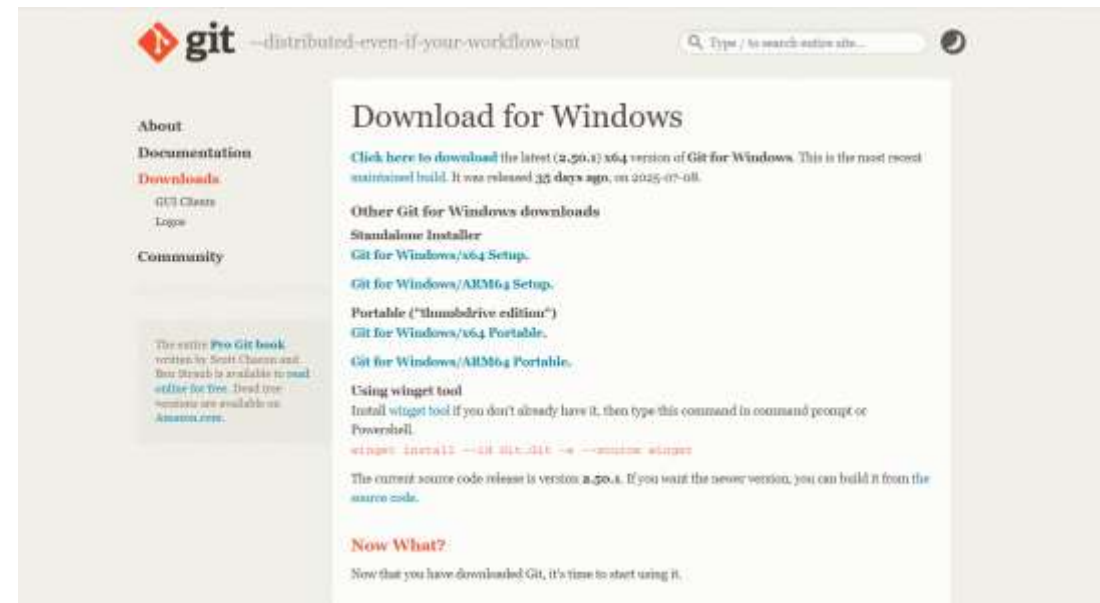
Ahmed Munieb Sheikh

Instructions

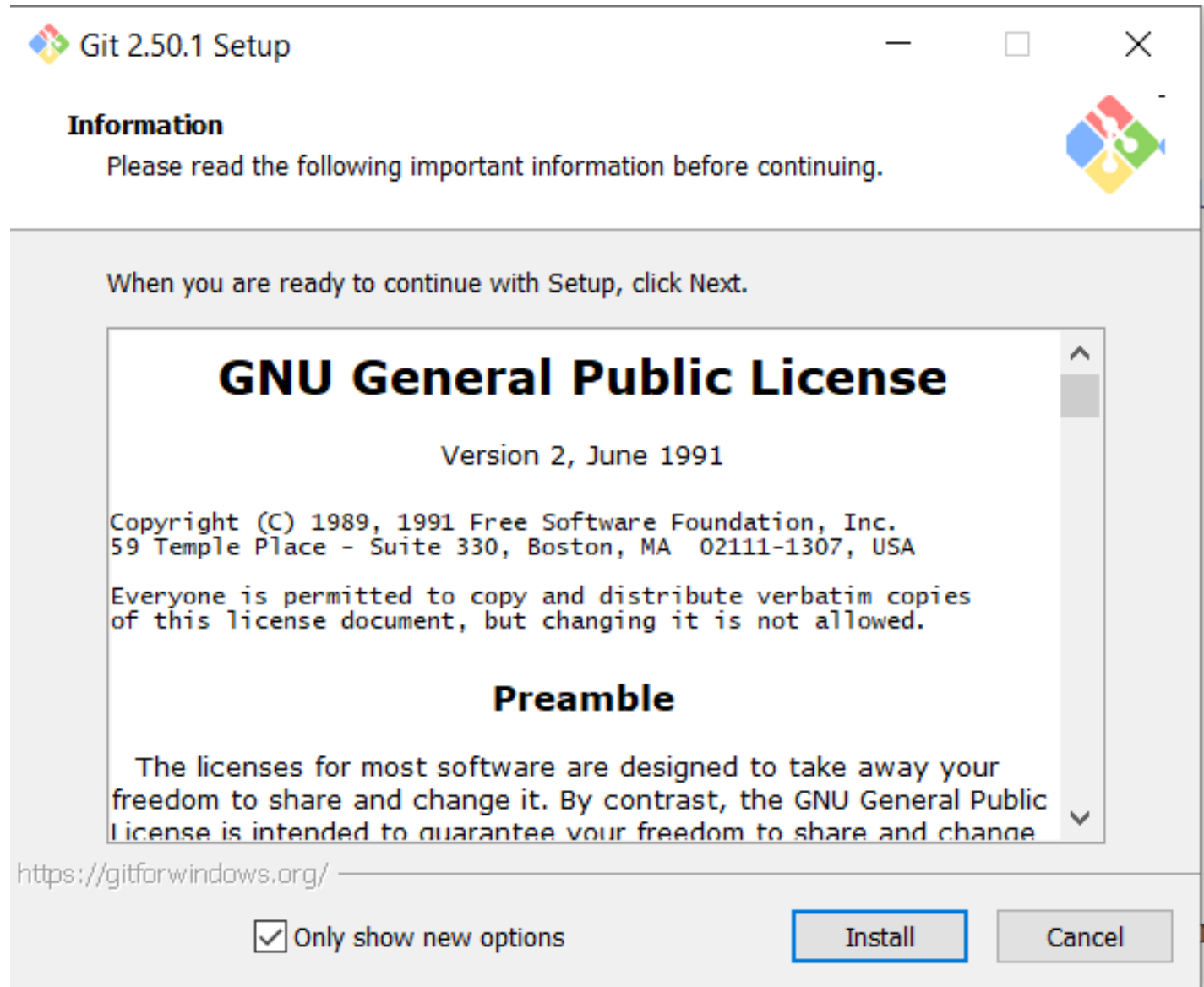
- This is graded (2%) in-person activity and students must show the output to the TA during tutorial hours.
- Duration of this activity is 45 minutes.
- Follow the step-by-step instructions and connect with TA in case if you are getting any error/issues.

Installing Git

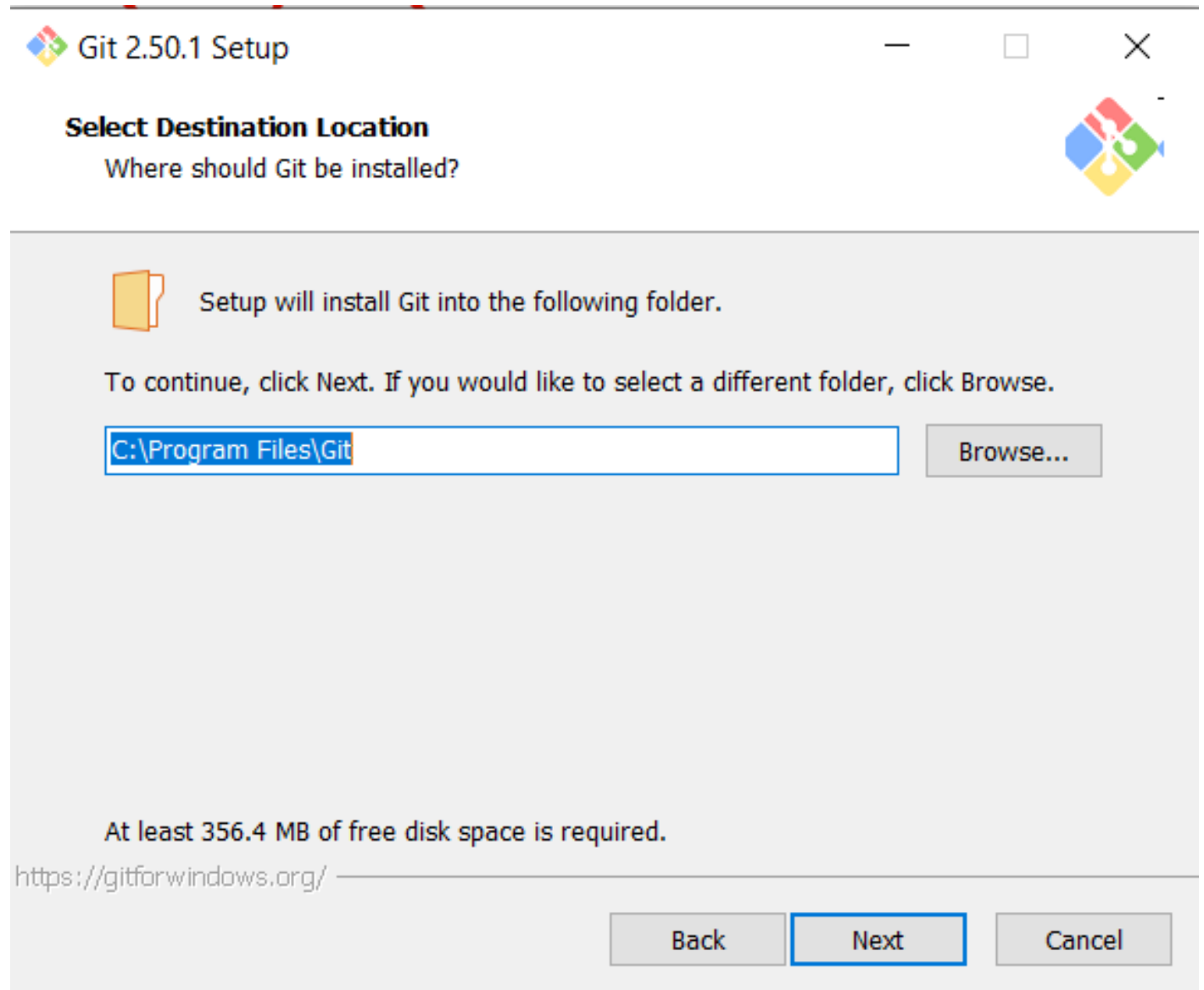
- **Installing on Windows**
- The most official build is available for download on the Git website. Just go to <https://git-scm.com/download/win> and the download will start automatically.



Installing Git (continued)



Installing Git (continued)



Installing Git (continued)

Git 2.50.1 Setup

Select Components
Which components should be installed?

Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

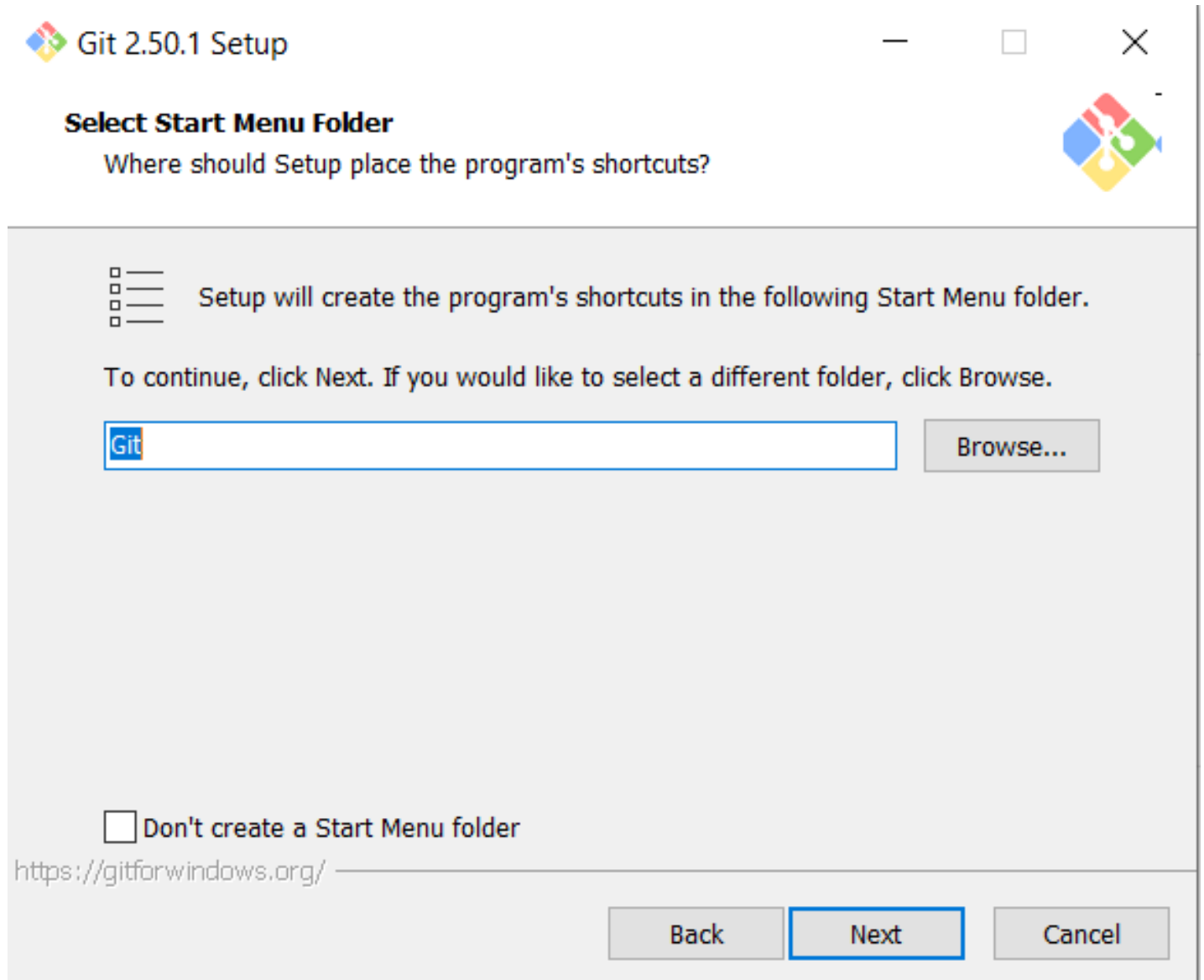
- ☒ Additional icons
 - ☒ On the Desktop
- ☒ Windows Explorer integration
 - ☒ Open Git Bash here
 - ☒ Open Git GUI here
- ☒ Git LFS (Large File Support)
- ☒ Associate .git* configuration files with the default text editor
- ☒ Associate .sh files to be run with Bash
- ☐ Check daily for Git for Windows updates
- ☐ (NEW!) Add a Git Bash Profile to Windows Terminal

Current selection requires at least 356.4 MB of disk space.

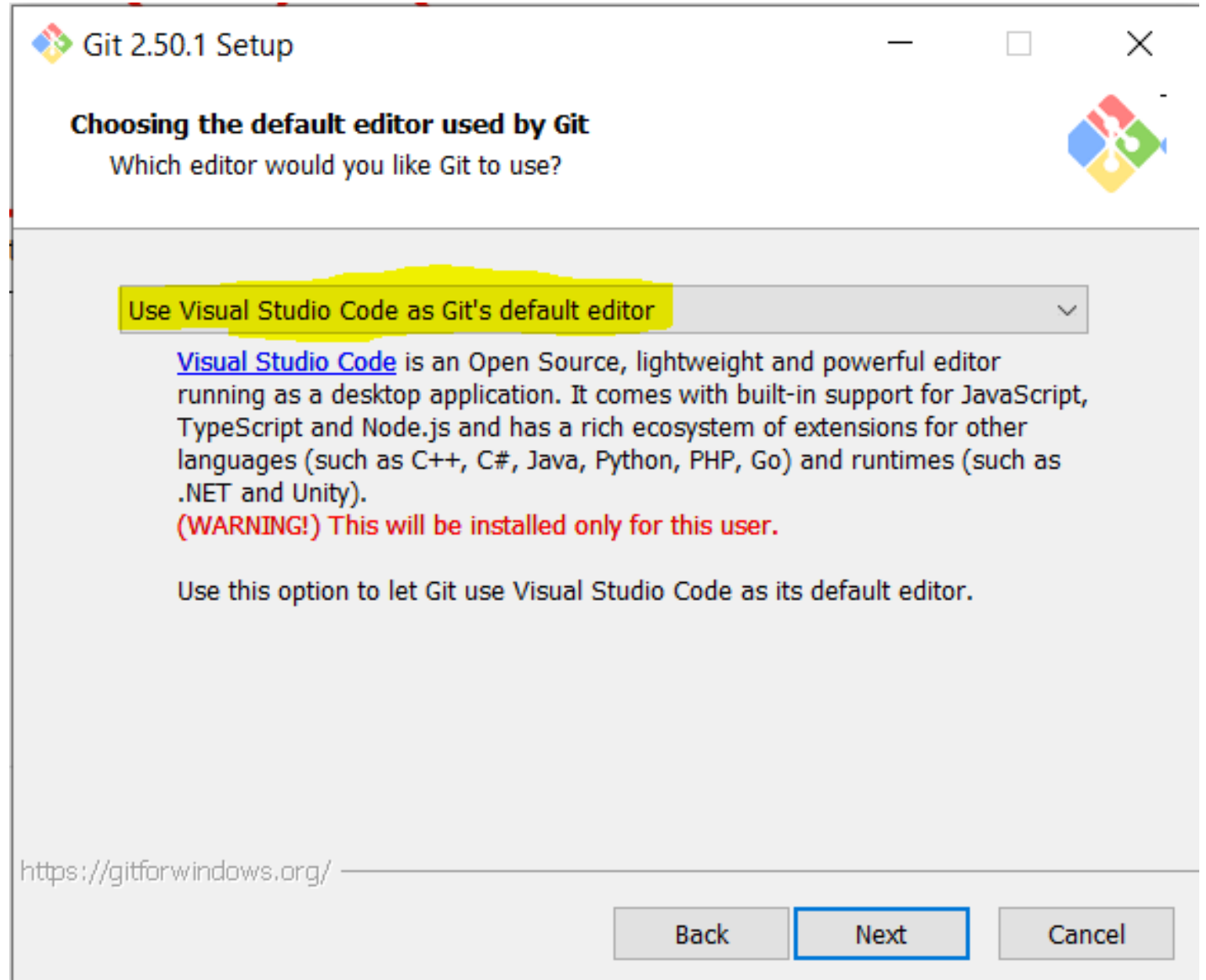
<https://gitforwindows.org/>

Back Next Cancel

Installing Git (continued)



Installing Git (continued)



Installing Git (continued)

Git 2.50.1 Setup

Adjusting the name of the initial branch in new repositories
What would you like Git to name the initial branch after "git init"?

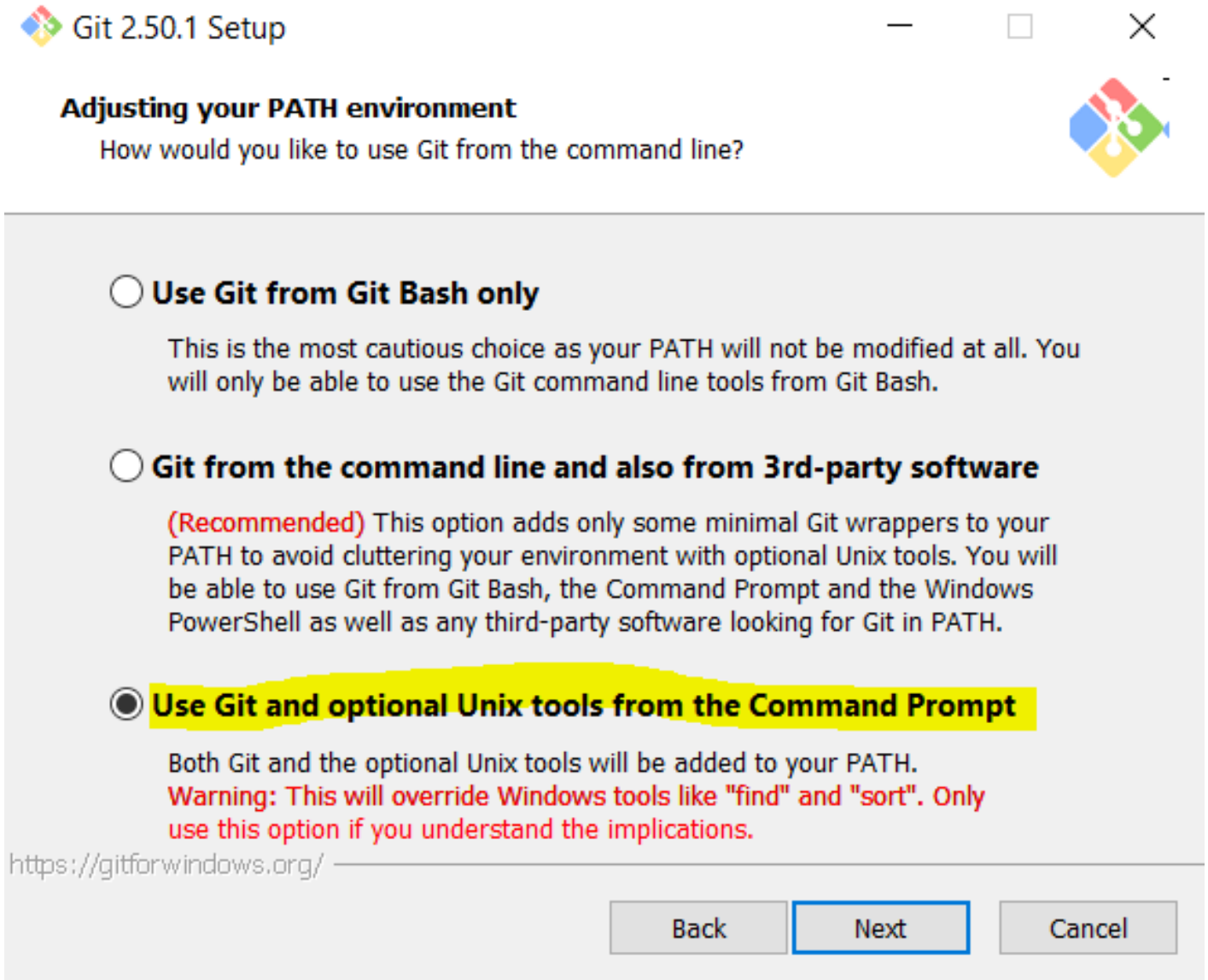
☒ **Let Git decide**
Let Git use its default branch name (currently: "master") for the initial branch in newly created repositories.

☐ **Override the default branch name for new repositories**
NEW! Many teams already renamed their default branches; common choices are "main", "trunk" and "development". Specify the name "git init" should use for the initial branch:

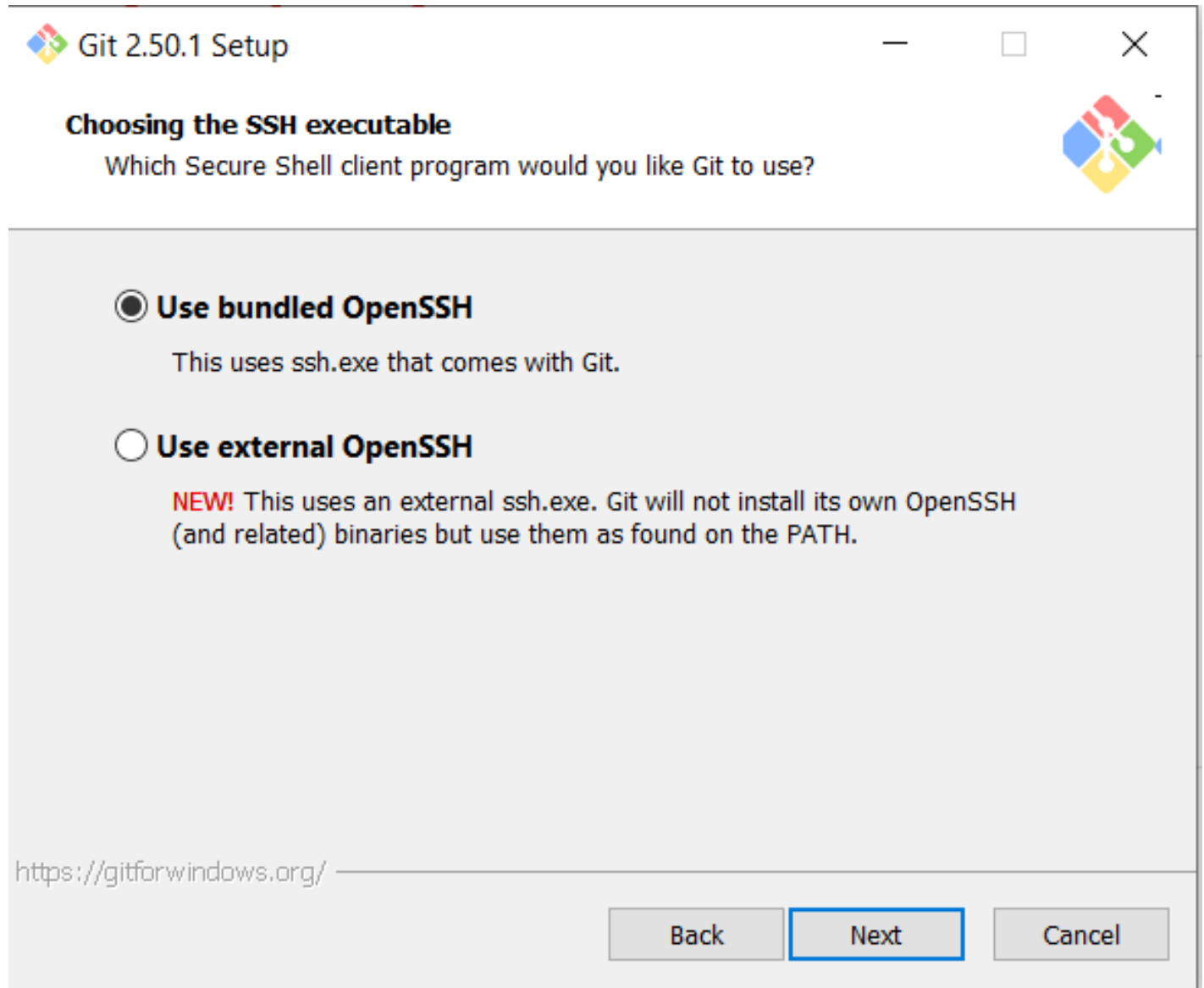
This setting does not affect existing repositories.

<https://gitforwindows.org/>

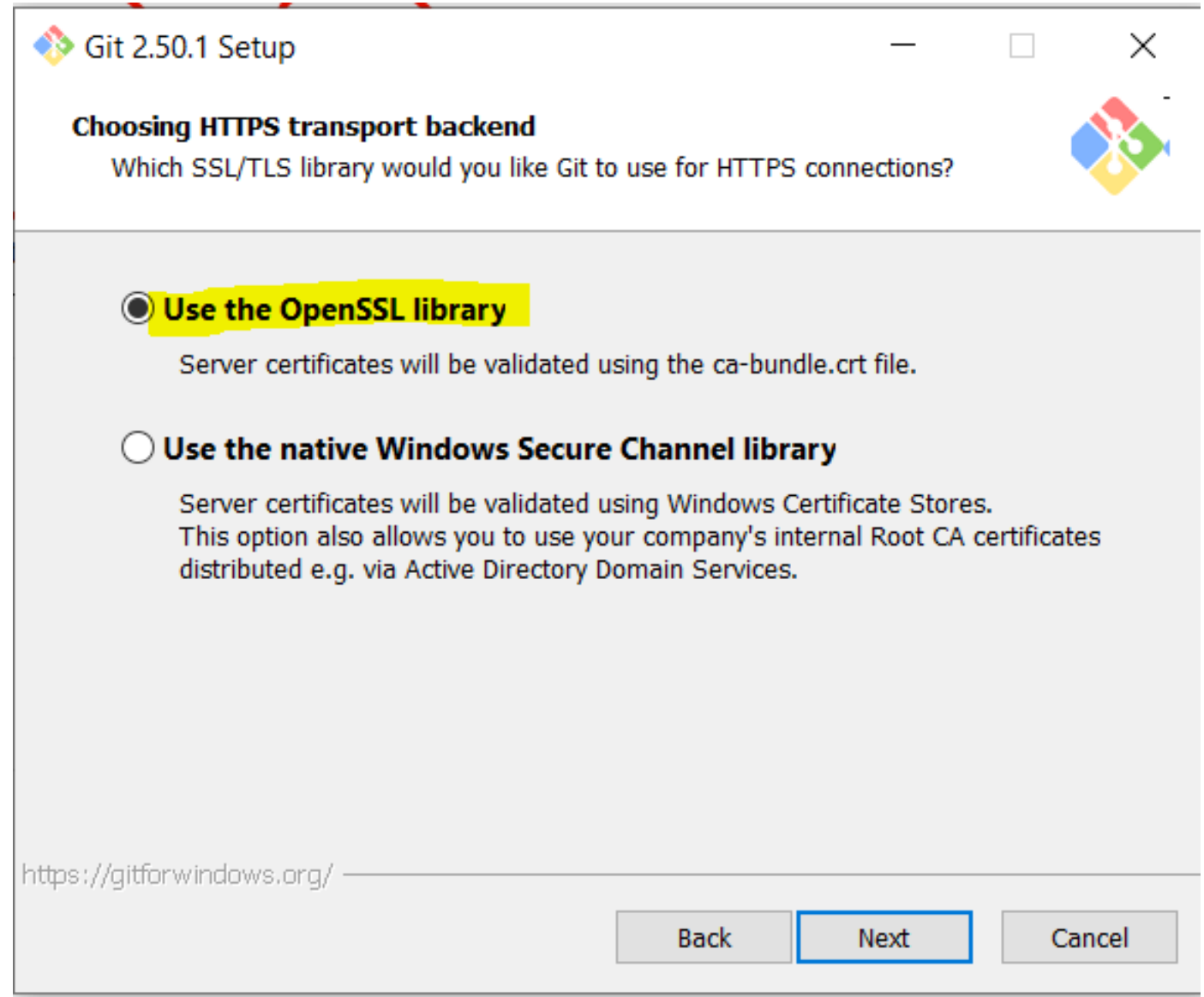
Installing Git (continued)



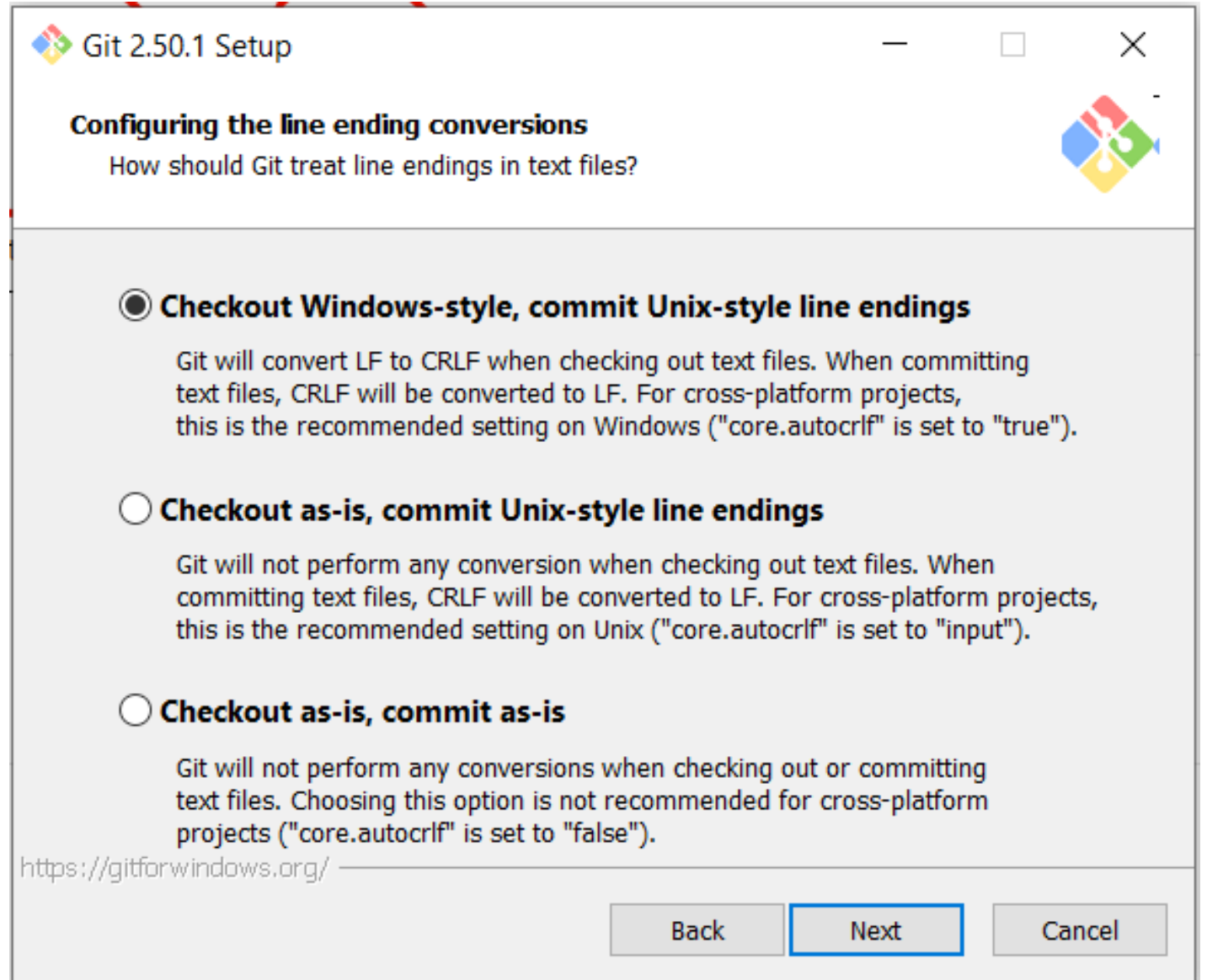
Installing Git (continued)



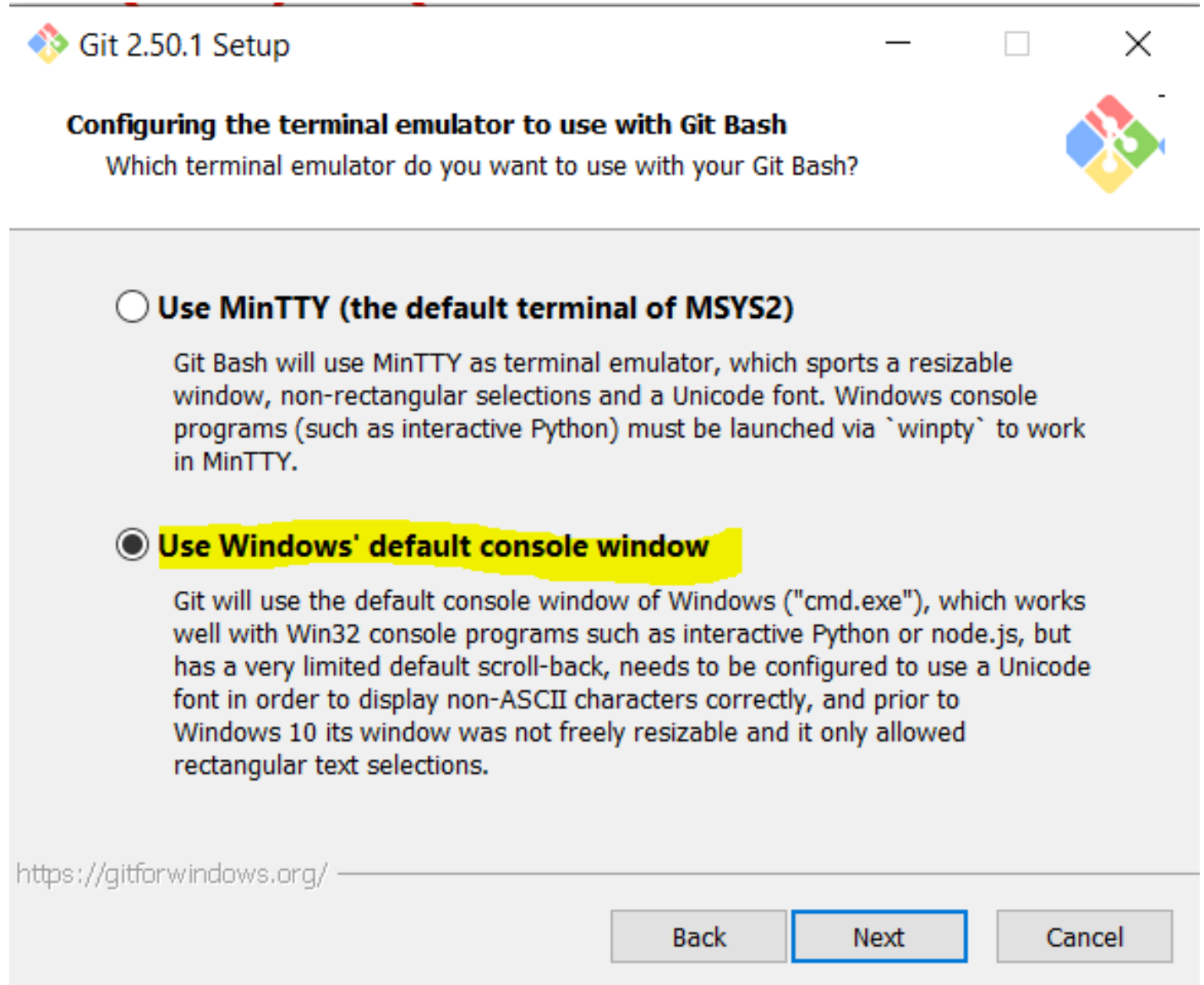
Installing Git (continued)



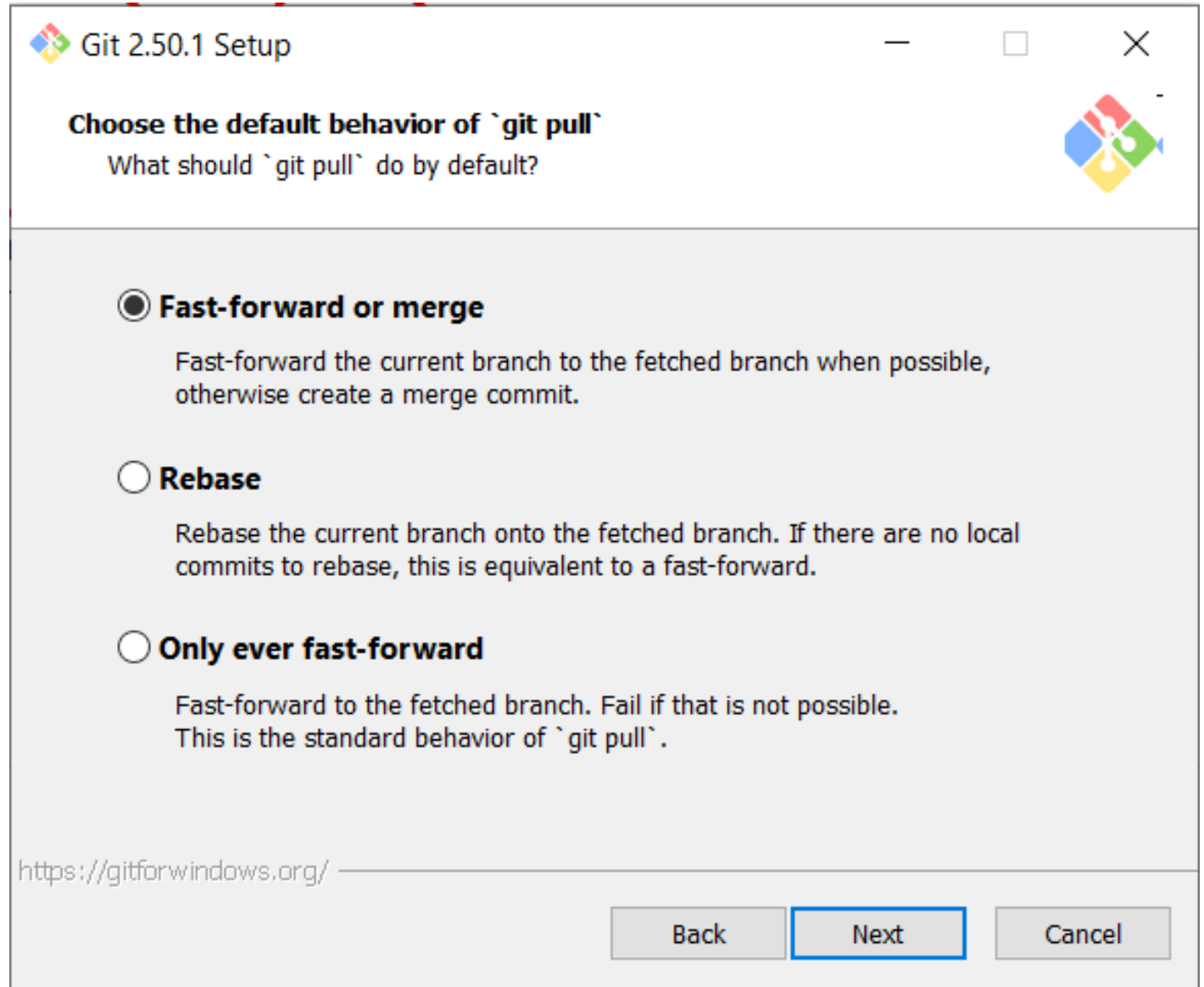
Installing Git (continued)



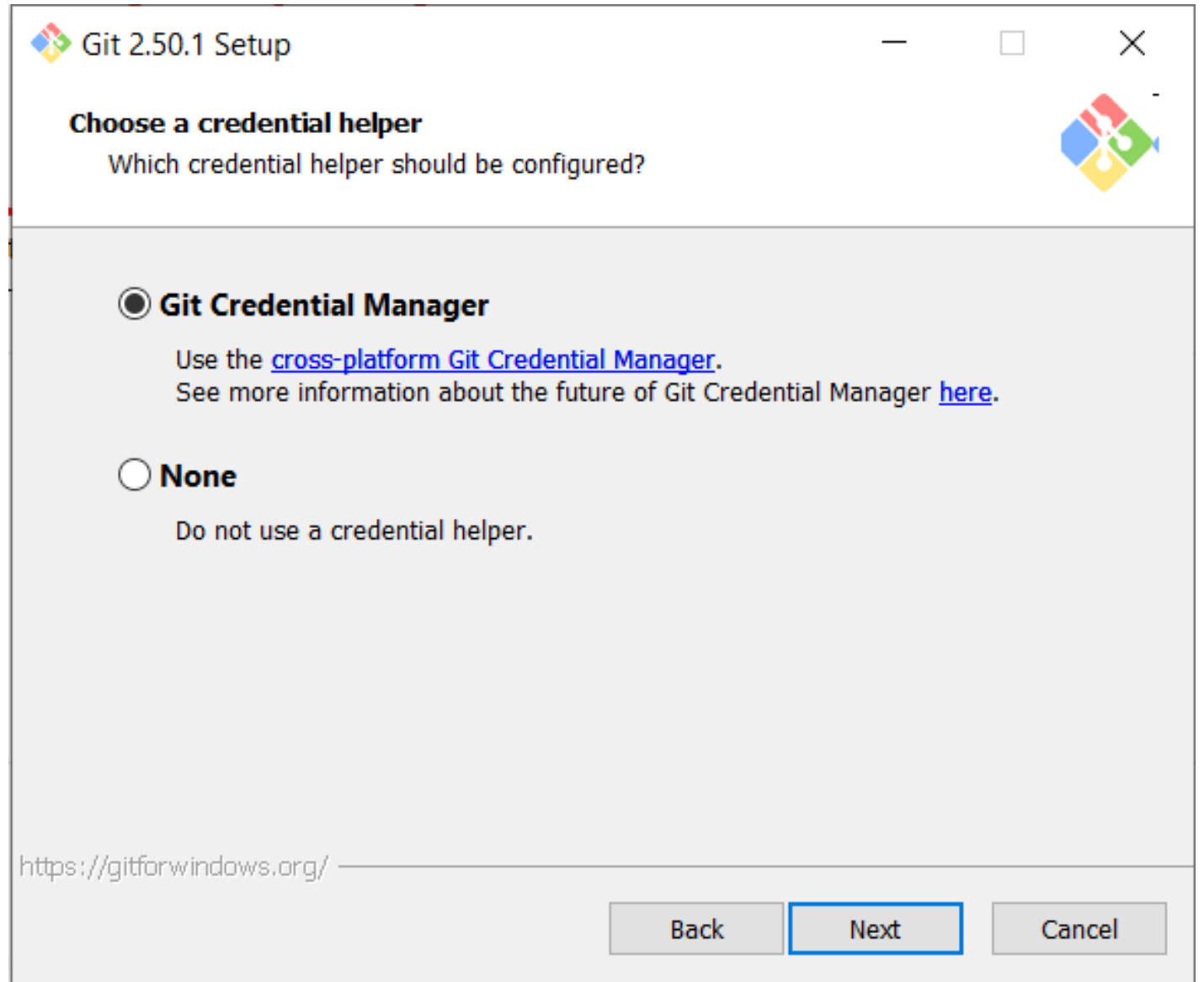
Installing Git (continued)



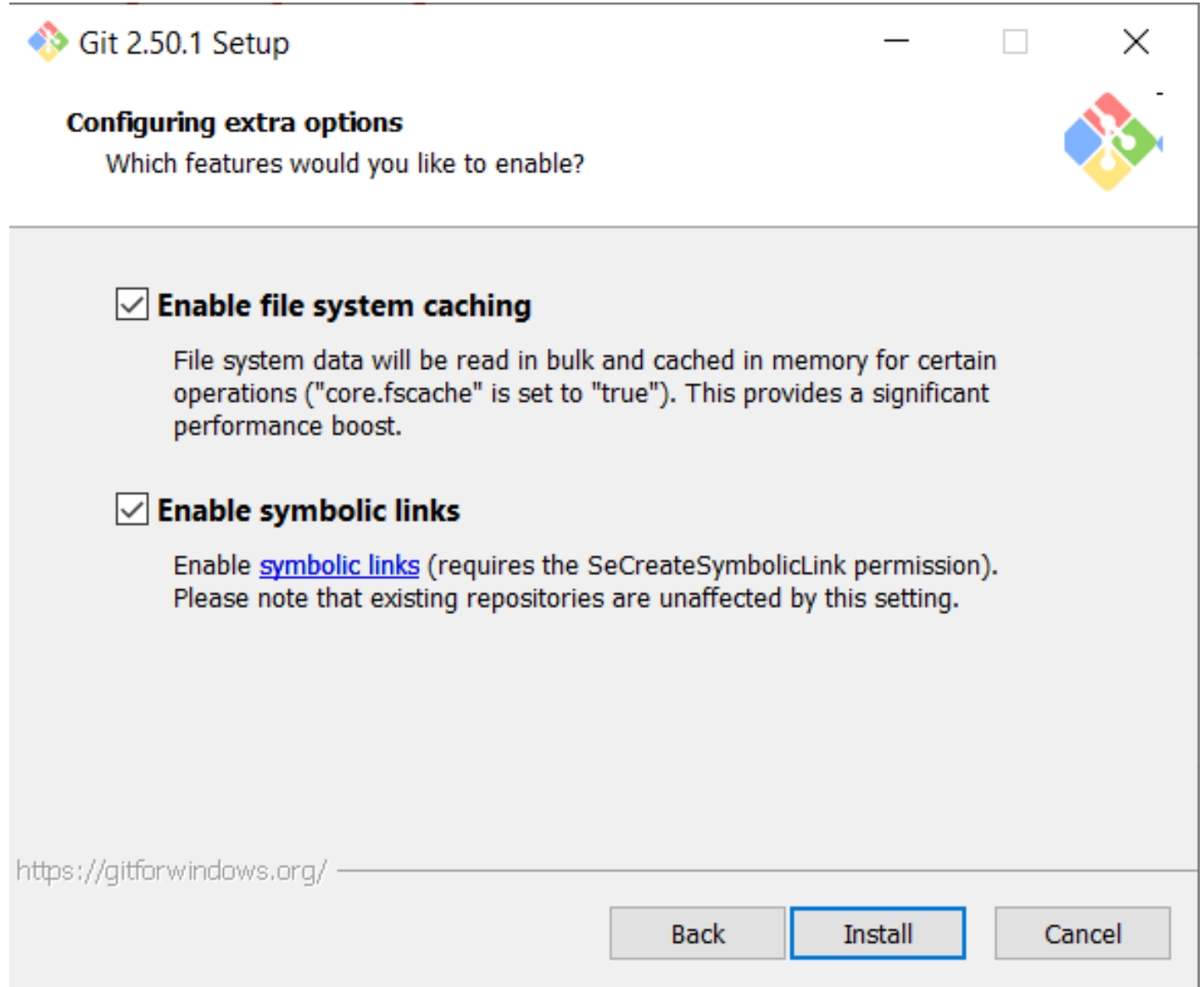
Installing Git (continued)



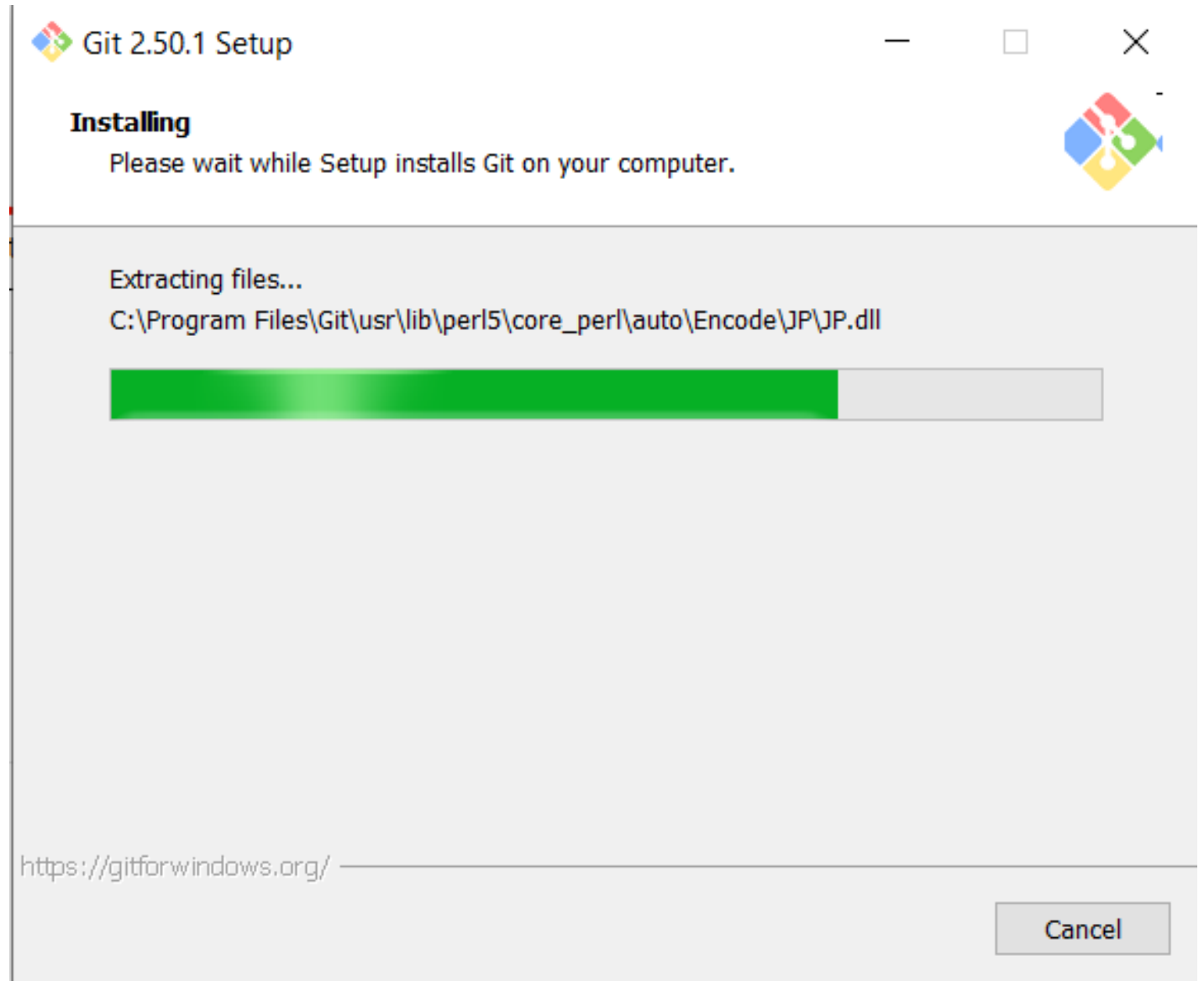
Installing Git (continued)



Installing Git (continued)



Installing Git (continued)



Installing Git (continued)

 Git 2.50.1 Setup



Completing the Git Setup Wizard

Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.

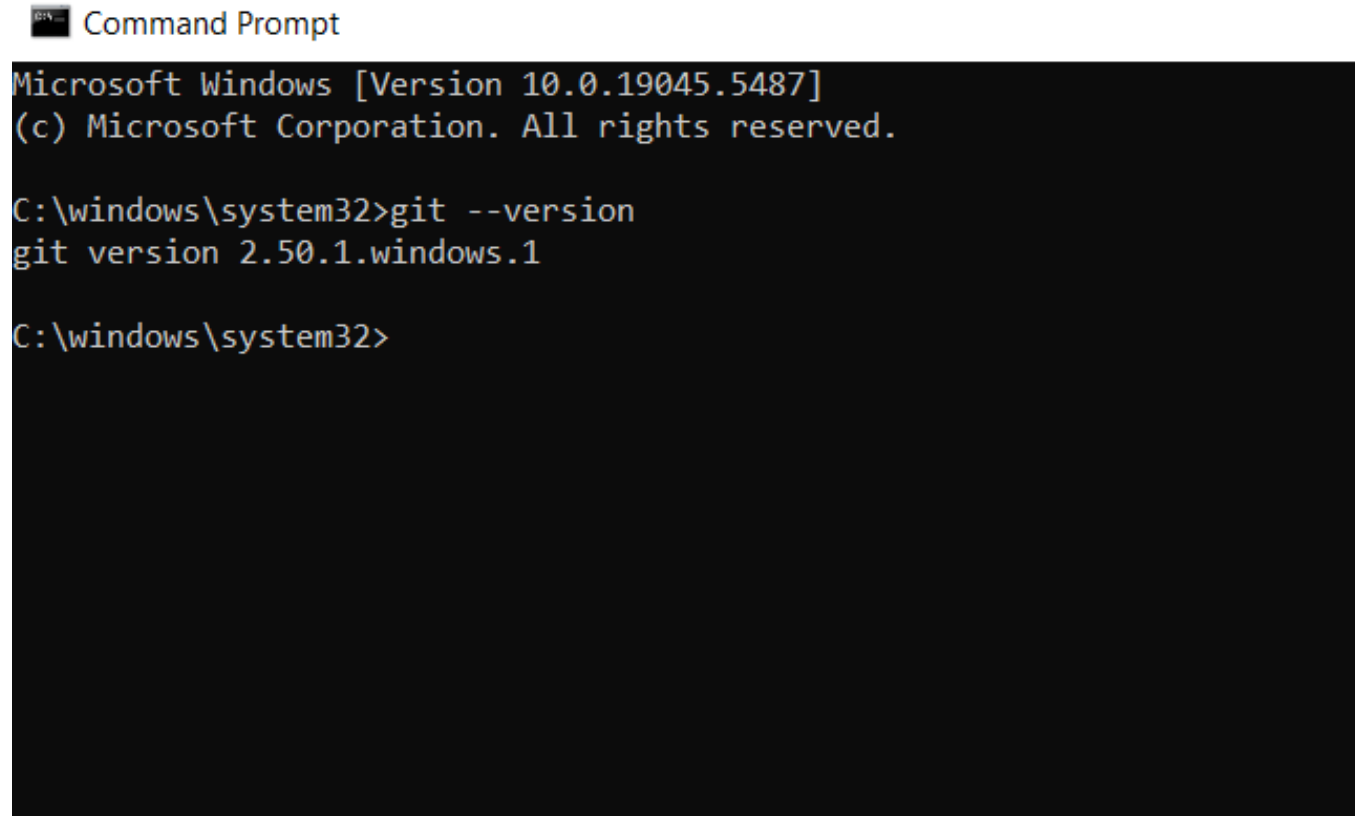
Click Finish to exit Setup.

- ☐ Launch Git Bash
- ☒ View Release Notes

Finish

Installing Git (continued)

- Verify your installation by opening a command prompt. Type cmd in search bar.
- Enter the command: `git --version` and press enter



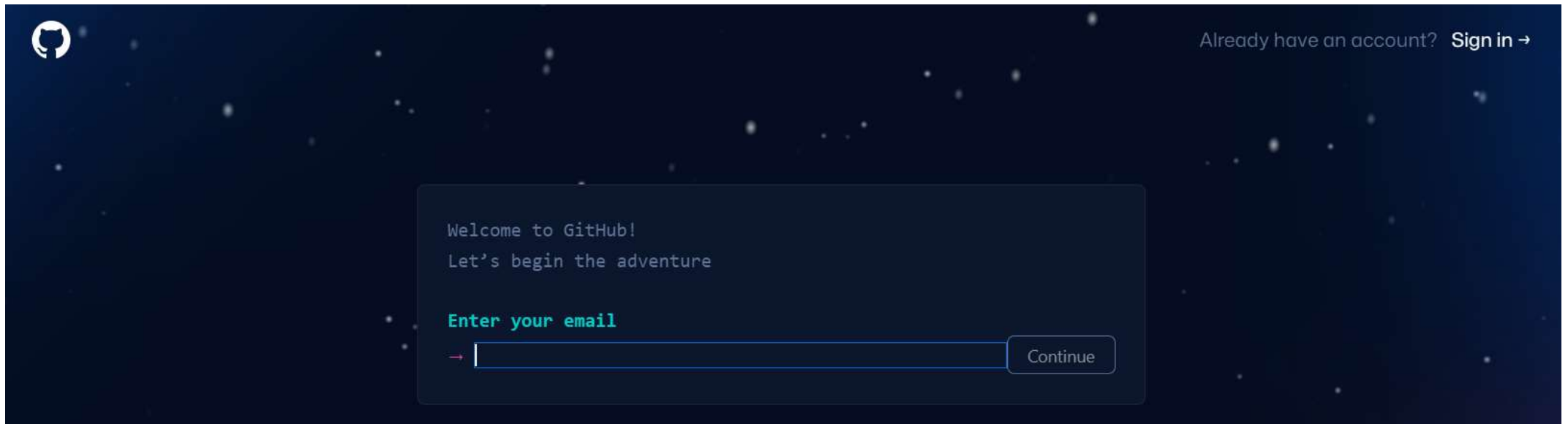
```
Command Prompt
Microsoft Windows [Version 10.0.19045.5487]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>git --version
git version 2.50.1.windows.1

C:\windows\system32>
```

Setting up GitHub Account

- Navigate to <https://github.com/> , press the Sign up for GitHub button and enter your details:

The image shows the GitHub sign-up page. At the top left is the GitHub logo. At the top right, it says "Already have an account? Sign in →". The main content area has a dark blue background with a starry pattern. In the center, there is a white box containing the text "Welcome to GitHub!" and "Let's begin the adventure". Below this, it says "Enter your email" in green. There is a text input field with a red cursor and a "Continue" button to its right.

Setting up GitHub Account (cont.)

- Enter your details or Continue with Google (I would recommend using your ontariotech.net account)
- To confirm your identity, it will ask you for the code.

Sign up for GitHub

 Continue with Google

or

Email*

Password*

Password should be at least 15 characters OR at least 8 characters including a number and a lowercase letter.

Username*

Username may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Your Country/Region*

Canada



For compliance reasons, we're required to collect country information to send you occasional updates and announcements.

Create account >

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

Setting up GitHub Account (cont.)

You're almost done!

We sent a launch code to `ahmed.shiekh@ontariotechu.ca`

→ Enter code


Didn't get your email? [Resend the code](#) or [update your email address](#).

Creating new repository

- After verifying your identity, on GitHub, you can start creating your repo by either clicking on the New button or Create a repository:


What do you want to do first?

Every developer needs to configure their environment, so let's get your GitHub experience optimized for you.




Start a new project
Start a new repository or bring over an existing repository to keep contributing to it.

Create a repository



Collaborate with your team
Improve the way your team works together and get access to more features with an organization.

Create an organization



Learn how to use GitHub
Get started with an "Introduction to GitHub" course in GitHub Skills.

Start Learning

[Skip this for now >](#)



Creating new repository (continued)

- My repository is named **WebandScriptingProgramming**, but students should create their own unique repository names. For now, the repository should remain public.

1

General

Owner *

 /

Repository name *

INFR3120Lab

✓ INFR3120Lab is available.

Great repository names are short and memorable. How about **crispy-octo-doodle**?

Description


0 / 350 characters

2

Configuration


Choose visibility *

Choose who can see and commit to this repository

 Public

Add README

READMEs can be used as longer descriptions. [About READMEs](#)

Off 

Add .gitignore

.gitignore tells git which files not to track. [About ignoring files](#)

No .gitignore

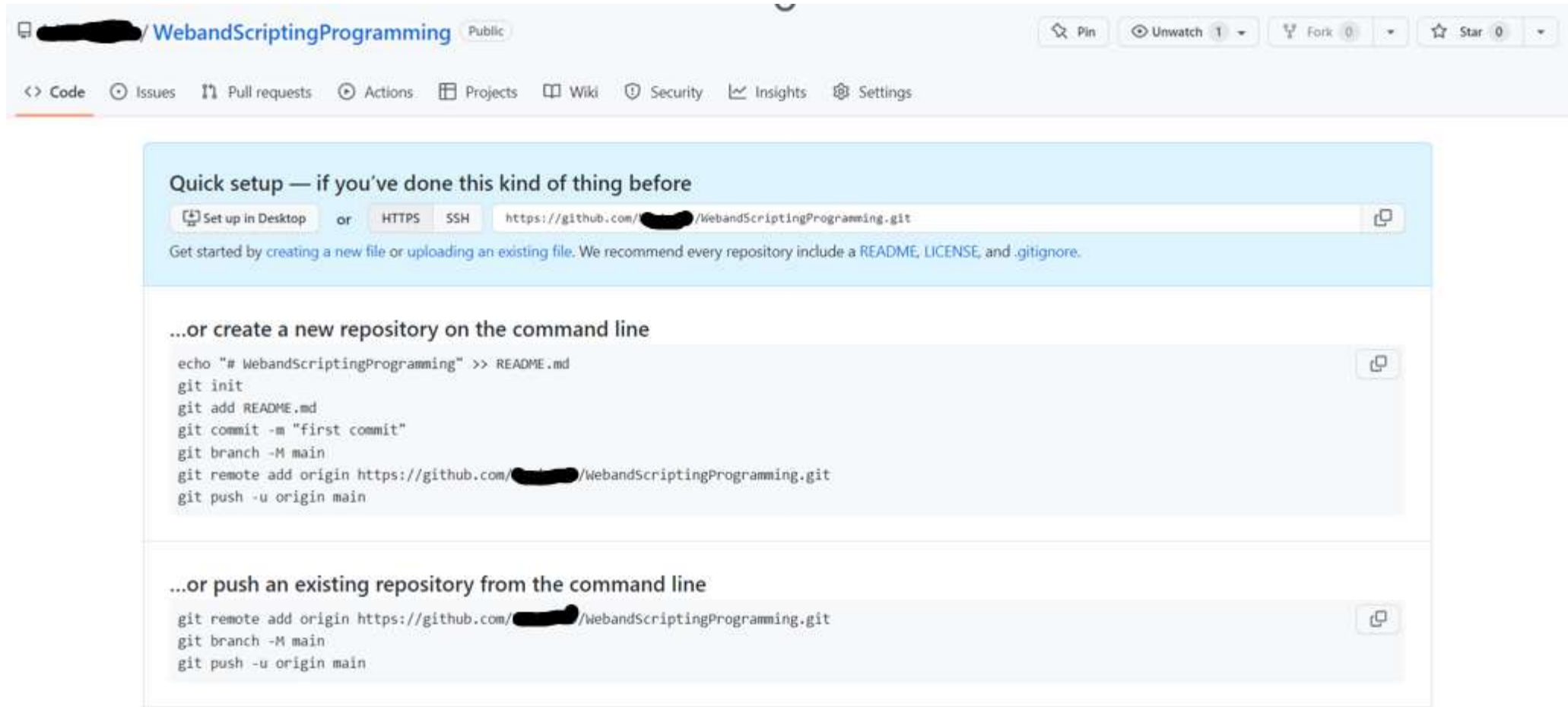
Add license

Licenses explain how others can use your code. [About licenses](#)

No license

Create repository

Creating new repository (continued)



The screenshot shows the GitHub interface for a repository named 'WebandScriptingProgramming'. The repository is public and has 1 watcher, 0 forks, and 0 stars. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area provides instructions for setting up the repository. It starts with a 'Quick setup' section for users who have done this before, offering a 'Set up in Desktop' button or a direct HTTPS link. Below this, it provides a list of Git commands to create a new repository on the command line, including creating a README file, initializing Git, adding the README, committing, creating a main branch, adding the remote origin, and pushing. Finally, it shows the commands to push an existing repository from the command line.

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](https://github.com/[redacted]/WebandScriptingProgramming.git) [SSH](#) [https://github.com/\[redacted\]/WebandScriptingProgramming.git](https://github.com/[redacted]/WebandScriptingProgramming.git)

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# WebandScriptingProgramming" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/[redacted]/WebandScriptingProgramming.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/[redacted]/WebandScriptingProgramming.git
git branch -M main
git push -u origin main
```

Installing Git (continued)

- Back to the windows, In the search bar now type Git Bash
- The first thing you should do when you install Git is to set your **username** and **email address**.
- This is important because every Git commit uses this information, and it's immutably baked into the commits you start creating.
- Open Git Bash and enter your information:

```
$ git config --global user.name "John Doe"  
$ git config --global user.email johndoe@example.com
```

- The email address and username you enter should be the same that you used to register for a new GitHub account.

Git Configuration

- Create a folder on Desktop, give it a name of your choice, in my case it's INFR3120Lab.
- Download sample file from CANVAS in this folder.
- Now open command prompt using cmd in search bar.
- Use cd command and move to the INFR3120Lab folder.

```
Microsoft Windows [Version 10.0.19045.5487]
(c) Microsoft Corporation. All rights reserved.

C:\windows\system32>git --version
git version 2.50.1.windows.1



C:\windows\system32>cd C:\Users\100849163\Desktop\INFR3120Lab

C:\Users\100849163\Desktop\INFR3120Lab>
```

Git Configuration

- Now type the following command:
- `git init`
- This will create this hidden `.git` folder in your folder.

> This PC > Desktop > INFR3120Lab

Name		Date modified	Type	Size
	.git	8/12/2025 4:14 PM	File folder	
	index.html	9/6/2024 12:07 PM	Chrome HTML Do...	3 KB

Git Configuration

- Then run the command **git add .**
- `git commit -m "first commit"`
- `git branch -M main`
- `git remote add origin https://github.com/yourusername/INFR3120Lab.git`

```
C:\Users\100849163\Desktop\INFR3120Lab>git add .

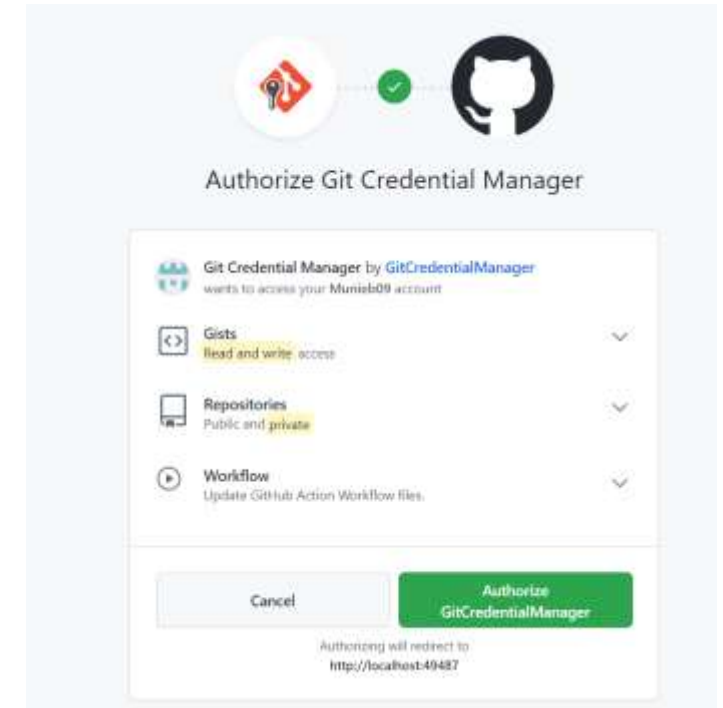
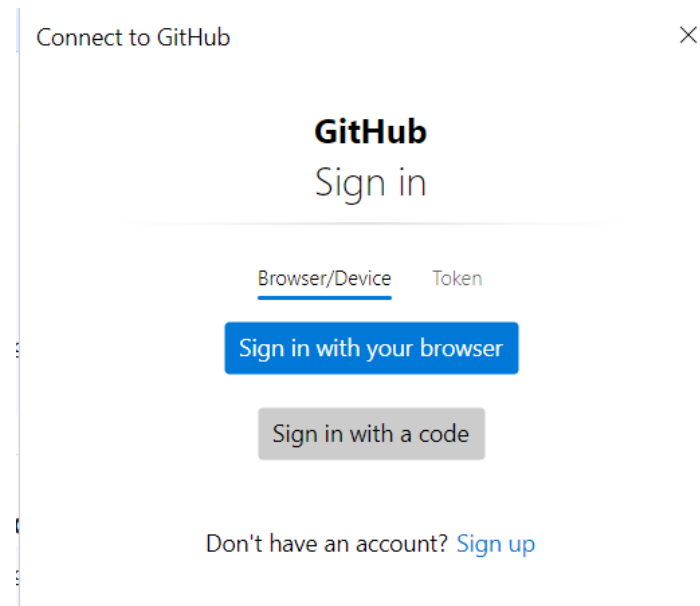
C:\Users\100849163\Desktop\INFR3120Lab>git commit -m "first commit"
[master (root-commit) 11bee23] first commit
 1 file changed, 58 insertions(+)
 create mode 100644 index.html

C:\Users\100849163\Desktop\INFR3120Lab>git branch -M main

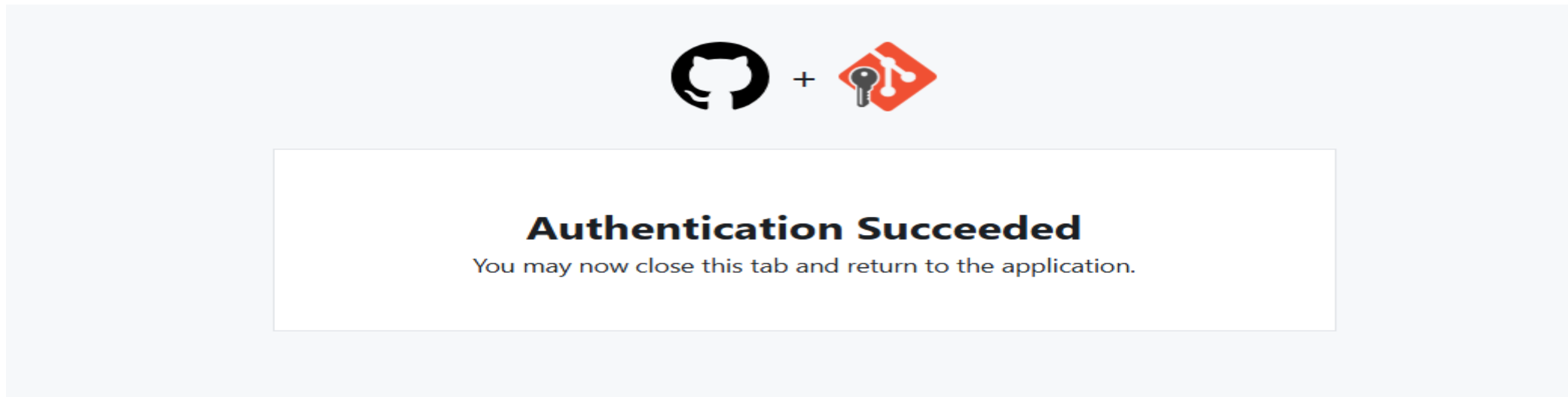
C:\Users\100849163\Desktop\INFR3120Lab>git remote add origin https://github.com/100849163/INFR3120Lab.git
```

Authorize GitHub Account

- Now in the cmd. enter the below command for authorization, with your username, user and repository name
- `git remote set-url origin https://yourusername@github.com/user/repo.git`
- **Select the option of your choice and Authorize.**



- After verification you should be able to see the below screen:



- After this enter the push command
`git push -u origin master`

Common GUI Clients (continued)

- GitHub Desktop: <https://desktop.github.com/>

