

# FIT5136 Using Git on VS Code

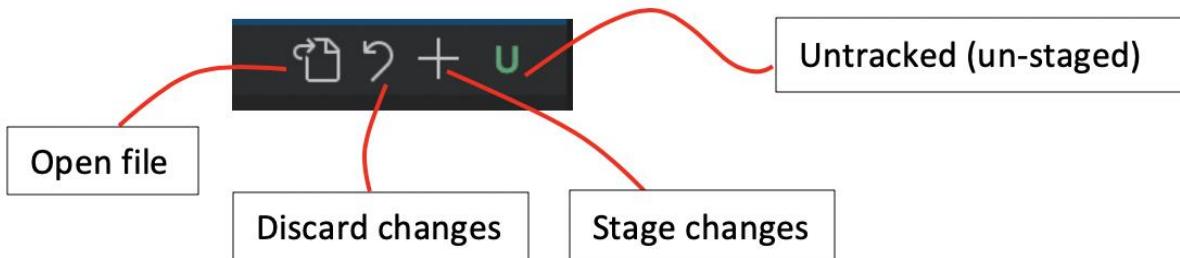
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Version: 2.1

1. Go to VS Code > source control > Click on 'Clone Repository'
2. It will ask you to enter the URL of the repository you want to clone. Go to <https://git.infotech.monash.edu/> > to your project, click on clone and copy the HTTP URL of the repository.

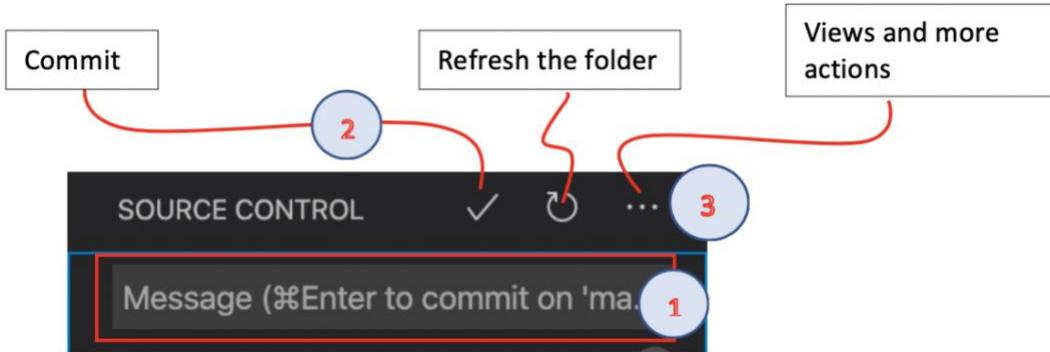


3. Paste this copied HTTP URL to the VS Code's prompt.
4. Select a destination to clone this repository (Desktop preferred)
5. Enter the username - first part of your email (before the @) and then the password (your Monash student account) as prompted
6. Once the clone is successful, select 'open'.
7. Note that you can open the command palette by pressing Ctrl/Cmd + Shift + P
8. Create a 'README.md' file and add your information in it.
9. Save the file (File > Save).
10. Click source control. Under changes, you will see the file you changed and four icons next to it.



11. The + (plus) sign is to stage the changes made to the selected file. Click on the + icon to stage the changes (make them permanent). Once the file has been stages, the U sign will change to A (Index Added)

12. On the top of the source control, you see the following



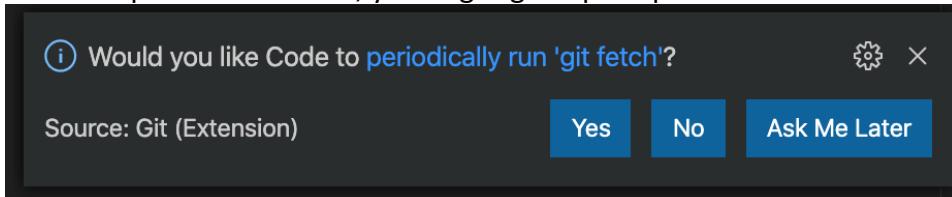
13. To commit changes, first add a sensible commit message in 1 as shown above and then click on the commit button (2, above) to commit the README.MD file.

14. Commit is successful when you do not see the staged file under changes.

15. To push this commit to the server, go to Views and more actions option (3 as shown in the image above)

16. Click 'Push'.

17. Once the push is successful, you might get a prompt as below:



18. Select 'No'.

19. You should go to <https://git.infotech.monash.edu/> and confirm if your commit has arrived to the server. Go to your repository and select the README.MD file where you should be able to view your updated information.

20. In some circumstances, you might want to add/edit/delete a file directly on the server and then go back to VS Code to resume finishing rest of your work. In this case, follow the steps below:

- a. Save > stage > commit all the uncommitted files that are in your local cloned repository.
- b. Go to Views and more actions > Pull.
- c. The pull will pull everything from the server and merge it with your local cloned repository.
- d. If this is successful, you can begin finishing rest of your code from VS Code.
- e. Do reach out to your demonstrator or add a post on the ed forum if you find your VS Code in some trouble (failed Pull or merge conflicts, etc).

Additionally, you can also use command palette on VS Code to use Git. [See documentation.](#)

## Troubleshooting

If you are having trouble cloning repository and the output says that Authentication failed, and access denied. Follow the follow steps:

### [Windows]

Search for the application 'git CMD' and run it - in the window that comes up, type the following:

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

```
git config --global user.email email@student.monash.edu
```

**Make sure you replace the details with your own name and student email address.**

### [mac OSX]

Bring up the Terminal, and type the following:

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

```
git config --global user.email email@student.monash.edu
```

**Make sure you replace the details with your own name and student email address.**

Next, go to [git.infotech.monash.edu](https://git.infotech.monash.edu) to generate an access token for your git account by going to the profile icon (top right corner), then click on 'Settings' and then 'Access Token', and filling out the details as per the screenshot

User Settings > Access Tokens

### Personal Access Tokens

You can generate a personal access token for each application you use that needs access to the GitLab API.

You can also use personal access tokens to authenticate against Git over HTTP. They are the only accepted password when you have Two-Factor Authentication (2FA) enabled.

#### Add a personal access token

Pick a name for the application, and we'll give you a unique personal access token.

##### Name

##### Expires at

##### Scopes

 **api**

Grants complete read/write access to the API, including all groups and projects.

Once you click on 'create personal access token', it'll show you the token - make sure you copy and save this somewhere safe. You will use this token later.

Lastly, when you copy the HTTP link to clone, For example if the URL copied is something like this:

<https://git.infotech.monash.edu/arvindk/team-19-repo.git>

Your final modified address will be (assuming user is abc001 and access token is jfdg92j):

<https://abc001:jfdg92j@git.infotech.monash.edu/arvindk/team-19-repo.git>

Your username is the front part of your email (before the @) and the token is the access token from the previous page.