

1. SSH access on github

MINGW64:/c/Users/Lenovo

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~
$ ssh -T git@github.com
Hi vb0om! You've successfully authenticated, but GitHub does not provide shell access.

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~
$ |
```

2. Username and mail with config

MINGW64:/c/Users/Lenovo/Education

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig core.editor=notepad
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttppath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/Lenovo/.gitconfig user.name=vb0om
file:C:/Users/Lenovo/.gitconfig user.email=vb0om@yandex.by
file:.git/config core.repositoryformatversion=0
file:.git/config core.filemode=false
file:.git/config core.bare=false
file:.git/config core.logallrefupdates=true
file:.git/config core.symlinks=false
file:.git/config core.ignorecase=true
file:.git/config remote.origin.url=git@github.com:vb0om/Education.git
file:.git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config branch.main.remote=origin
file:.git/config branch.main.merge=refs/heads/main

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$
```

username and mail

3. Create branch

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$ git checkout -b testing
Switched to a new branch 'testing'

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (testing)
$ git add test
fatal: pathspec 'test' did not match any files

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (testing)
$ git add Test.txt

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (testing)
$ git commit -m 'adding testing file'
[testing 816f35d] adding testing file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Test.txt
```

create new branch

branch

4. Add files and push to the remote repo

The screenshot displays a terminal window on the left and a web browser on the right. The terminal shows the execution of `git push --set-upstream origin testing`, which successfully pushes the 'testing' branch to the remote repository. The output includes details about object counting, compression, and the creation of the remote branch. The web browser shows the GitHub repository page for 'vb0om/Education'. A yellow banner at the top indicates that the 'testing' branch has recent pushes. Below this, a 'Switch branches/tags' dropdown menu is open, showing the 'main' branch as the current selection and the 'testing' branch as an available option. A green arrow points from the 'testing' branch in the dropdown to the terminal output, and another green arrow points from the 'add branch 'testing'' text to the 'testing' branch in the dropdown.

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (testing)
$ git push --set-upstream origin testing
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 262 bytes | 262.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'testing' on GitHub by visiting:
remote:   https://github.com/vb0om/Education/pull/new/testing
remote:
To github.com:vb0om/Education.git
 * [new branch]      testing -> testing
branch 'testing' set up to track 'origin/testing'.
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (testing)
$
```

github.com/vb0om/Education

vb0om / Education Public

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testing had recent pushes 1 minute ago

add branch 'testing'

Switch branches/tags

Find or create a branch...

Branches Tags

✓ main default

testing View all branches

Added descriptions

Added descriptions

Testing committing

The last update of Vagrantfile

Help people interested in this repository understand your project by adding a README.

5. Merge conflict

The screenshot shows a terminal window with the command `git merge testing` being executed. The output indicates an auto-merging conflict in the file 'Test.txt'. The message states: 'CONFLICT (content): Merge conflict in Test.txt. Automatic merge failed; fix conflicts and then commit the result.' The terminal then shows the user is in the 'main|MERCING' state. A green arrow points from the 'merge conflict' text to the 'CONFLICT' message in the terminal output.

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$ git merge testing
Auto-merging Test.txt
CONFLICT (content): Merge conflict in Test.txt
Automatic merge failed; fix conflicts and then commit the result.

Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main|MERCING)
$ |
```

merge conflict

6. Resolve conflict

```
Lenovo@DESKTOP-ARBQ8S0 MINGW64 ~/Education (main)
$ git log
commit 7acf922f630466487142d4cd076761cd3706e22a (HEAD -> main)
Merge: 9279c06 a8a3c55
Author: vb0om <vb0om@yandex.by>
Date: Wed Jun 29 10:21:41 2022 +0300

    Merge branch 'testing'

commit a8a3c550fed4b9cd378a4e8aad1e00a04e2b1d7c (testing)
Author: vb0om <vb0om@yandex.by>
Date: Wed Jun 29 10:18:45 2022 +0300

    sdsfdf

commit 9279c06cdd8c58f81653e0e7336a8761ec9bd3b2
Author: vb0om <vb0om@yandex.by>
Date: Wed Jun 29 10:17:03 2022 +0300

    Chaneg smth in Test

commit 816f35dbbf9bbe57f859fc66e65639338c7105c (origin/testing)
Author: vb0om <vb0om@yandex.by>
Date: Wed Jun 29 09:33:45 2022 +0300

    adding testing file

commit 348127d9a29013271249fa84f6fe34daa7ff7018 (origin/main)
Author: vb0om <vb0om@yandex.by>
Date: Fri Jun 24 19:03:12 2022 +0300

    The last update of Vagrantfile

commit 163eca8aaf43b688f057caea5a7d30262517ab38
Author: vb0om <vb0om@yandex.by>
Date: Thu Jun 23 14:36:27 2022 +0300

    Adding the vagrantfile of testing VM

commit 9dc5d940b04b2f19690f90e5383291b76a4b35d1
Author: vb0om <vb0om@yandex.by>
Date: Thu Jun 23 14:34:41 2022 +0300

    Deleting vagrantfile

commit 0df267a1c454b4366afa43cdda12d06012f0ca7a
Author: vb0om <vb0om@yandex.by>
Date: Thu Jun 23 14:28:50 2022 +0300

    Vagrantfile

commit 8fe22188b8a3cc951901bd1720dc79d2fbf36181
Author: vb0om <vb0om@yandex.by>
Date: Sat Jun 18 17:59:56 2022 +0300

    Testing committing
```

resolve MR conflict