



Git-Hub

1. Create git account
- create a unique Repo for unique project.

hero0000987 / TestRepoPublic

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main1 branch0 tags

Go to fileAdd fileCode

Initial commit

README.mdInitial commit

README.md

TestRepo

This is a test file to learn git

Clone

HTTPSSSHGitHub CLI

You don't have any public SSH keys in your GitHub account. You can add a new public key, or try cloning this repository via HTTPS.

git@github.com:hero0000987/TestRepo.git

Use a password-protected SSH key.

Open with GitHub Desktop

2. Download & install git

git-scm.com/downloads

Best Prepaid &...Google AdwordsImage Border EditorPrimary, Secondary...GoogleOther

git--distributed-is-the-new-centralized

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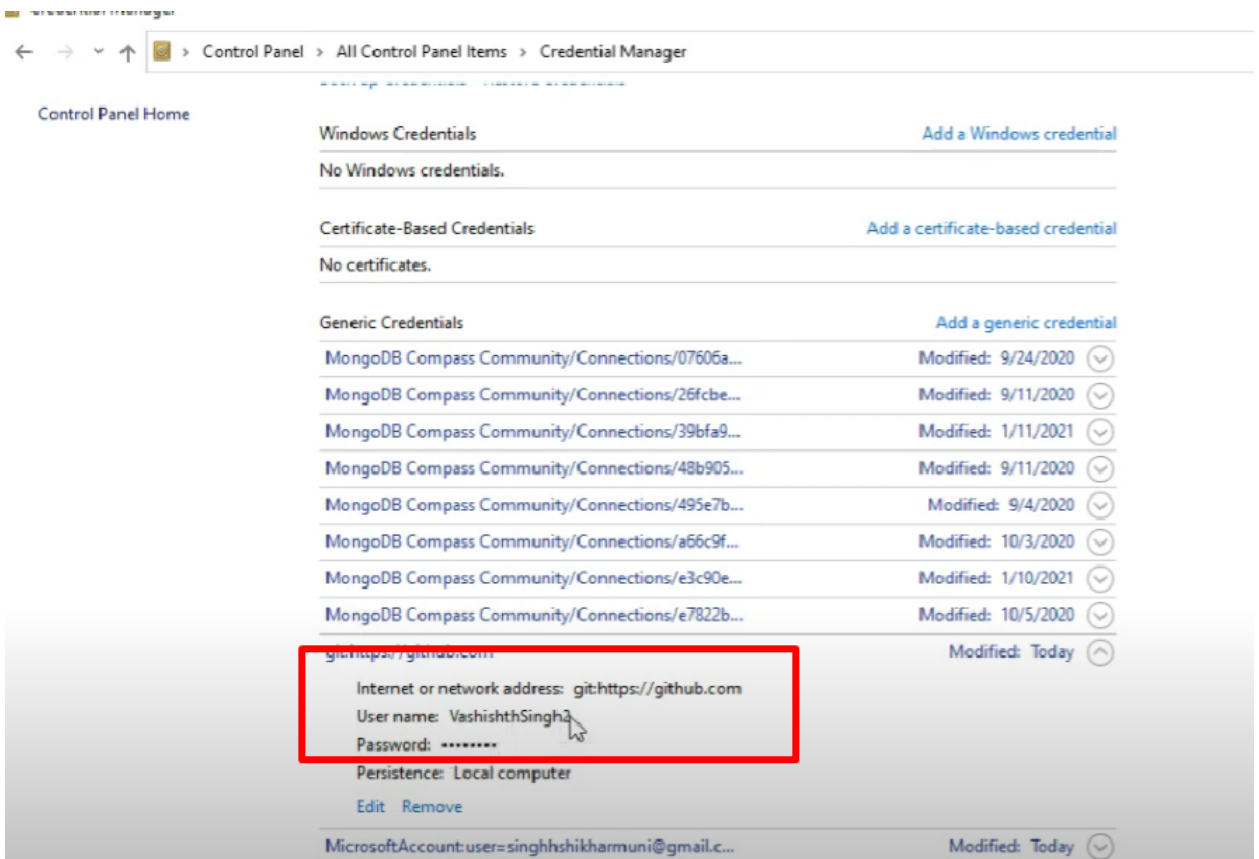
Downloads

macOSWindowsLinux/Unix

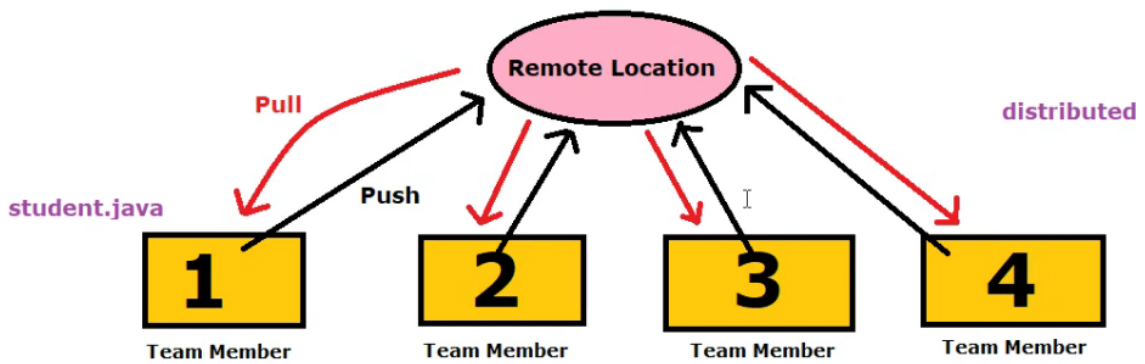
Older releases are available and the Git source repository is on GitHub.

Latest source Release2.35.0Release Notes (2022-01-24)Download for Windows

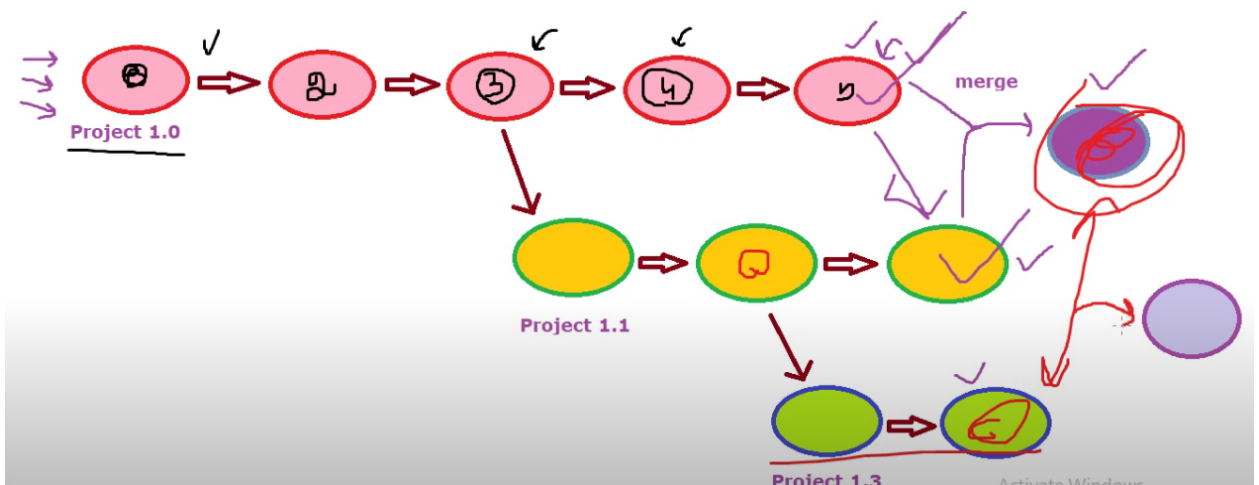
3. Remove the old GIT Credentials if saved [optional]



⇒ Distributed Version Control System

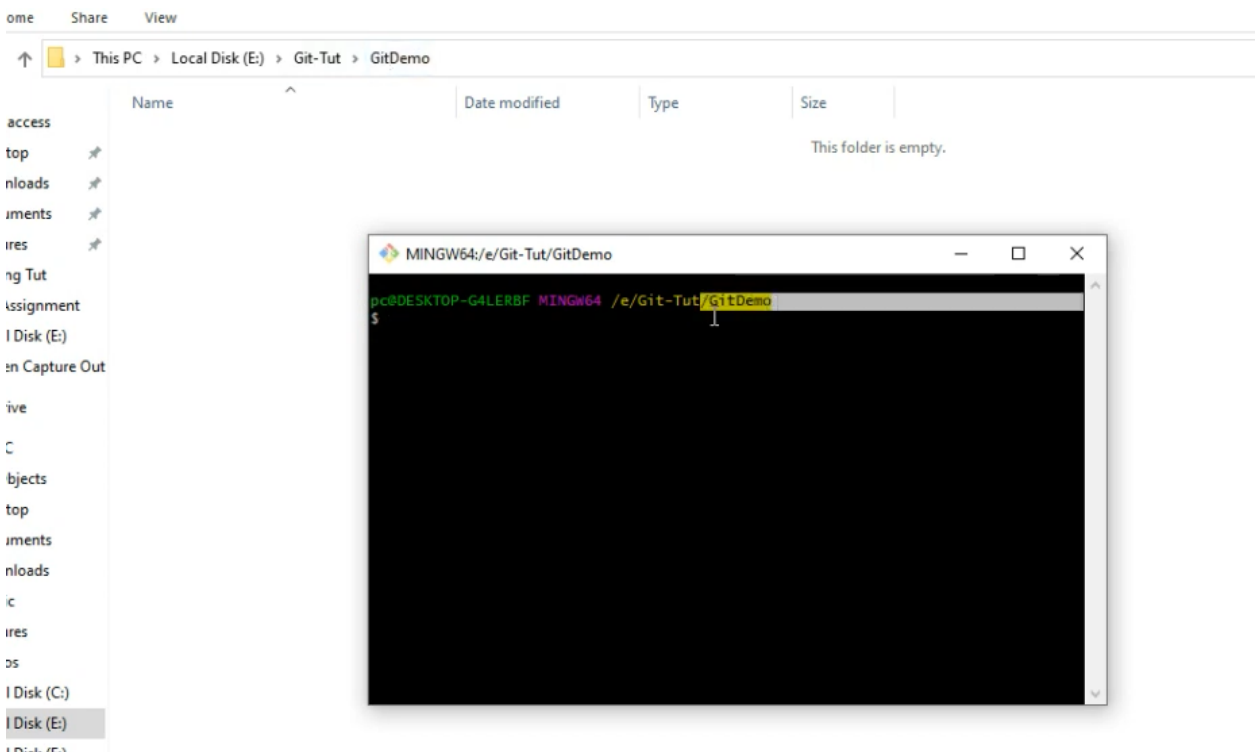


Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.



4. Working With Remote Repositories

- open the folder (in git bash) where you want to store the files.

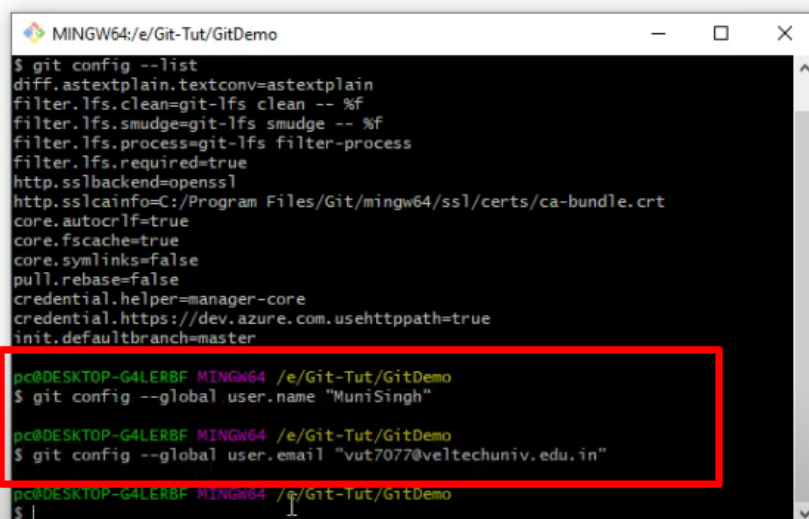


Git config command : to check the git configuration

```
git config --list
```

Setting the git user id & password

```
$ git config --global user.name "ImDwivedi1"
$ git config --global user.email "Himanshudubey481@gmail.com"
```



⇒ fire the same command to check if you have properly setted the git hub id and password.

```
pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=MuniSingh
user.email=vut7077@veltechuniv.edu.in
pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo
$
```

or.

```
git config user.name <= to check the id
git config user.email <= to check the email-id
```

```
pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo
$ git config user.name
MuniSingh

pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo
$ git config user.email
vut7077@veltechuniv.edu.in
```

Git Init command :

This command is used to create **a local repository**.

→ init command will initialize an empty repository.

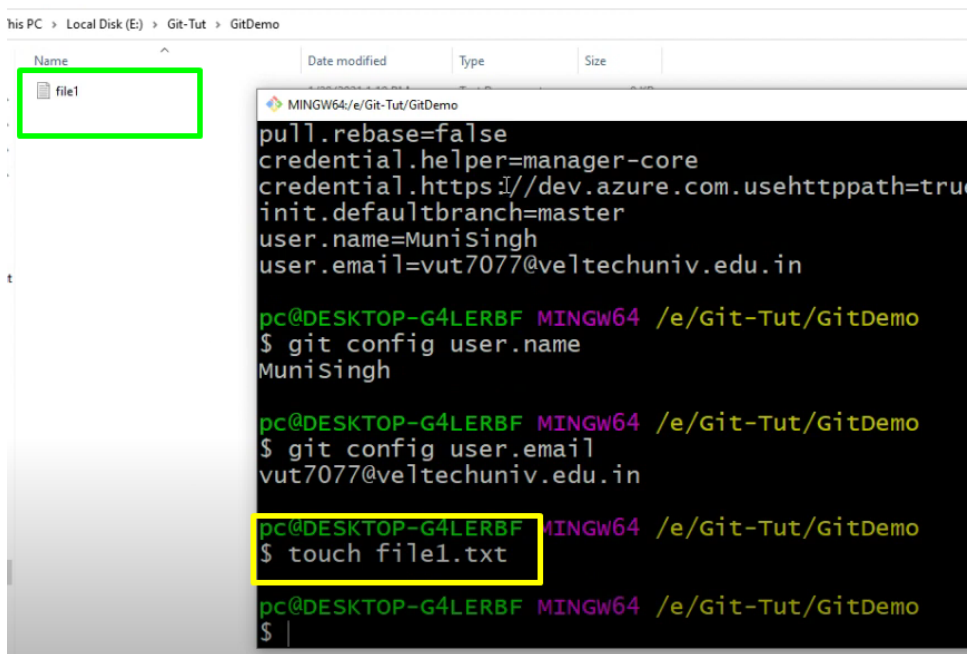
```
git init Demo
```

```
HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop
$ git init Demo
Initialized empty Git repository in C:/Users/HiMaNshU/Desktop/Demo/.git/

HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop
$ |
```

Git touch command :

The **touch command** is the easiest way to create new file (locally on your computer).



Git status command :

- The status command is used to display the state of the working directory
- It allows you to see which changes have been staged, which haven't, and which files aren't being **tracked** by Git.

ex.

```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1
$ git status
fatal: not a git repository (or any of the parent directories): .git
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1
```

Because currently its not a git hub repo

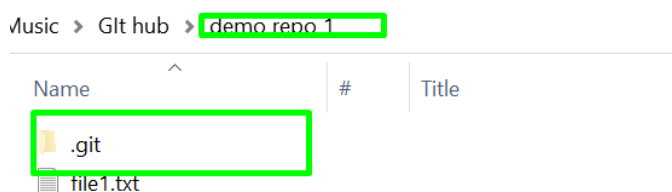
→ To make it a github repo we will use init command

Git Init command :

This command is used to create a local repository.

```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1
$ git init
Initialized empty Git repository in C:/Users/global/Music/Git hub/demo repo 1/.git/
```

→ After its successfully initialized as git Repo it creates a hidden file in the folder



→ checking again the status of files

```

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
       file1.txt

nothing added to commit but untracked files present (use "git add" to track)
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$

```

Git add command :

To add the file for tracking

```

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git add file1.txt

```

```

$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
       new file:   file1.txt

```

green color ⇒ for tracked files

red color ⇒ for un-tracked files

or.



```

pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo (master)
$ git add .

pc@DESKTOP-G4LERBF MINGW64 /e/Git-Tut/GitDemo (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
       new file:   File2.docx
       new file:   file1.txt

```

```
git add .
```

→ To track all the files at once

Git commit command :

Commit command is used in two scenarios. They are as follows.

⇒ **Git commit -m**

- This command changes the head.
- It records or snapshots the file permanently in the version history with a message.

```
$ git commit -m "Commit Message"
```

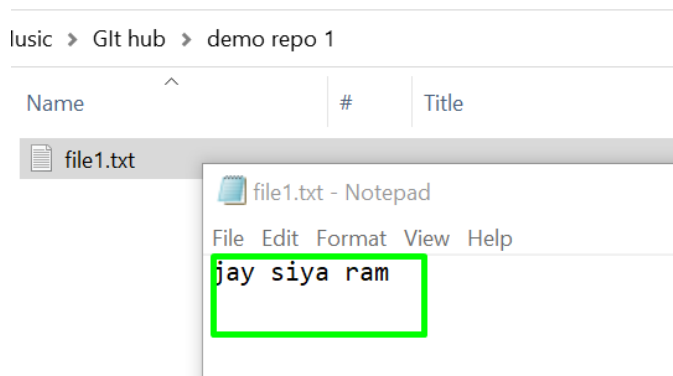
```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git commit -m "initial1 commit"
[master (root-commit) 8d7258c] initial1 commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

→ EVERYtime u need to commit if u want ur changes to be saved on remote location

Ex.

- made some changes in the file



```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   file1.txt

no changes added to commit (use "git add" and/or "git commit -a")

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
```

- If we want to save the changes in the github repo we need to again track the file and add to commit

→ Tracking file1.txt

```

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git add .

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git commit -m "Initial2 baby"
[master d4aff88] Initial2 baby
1 file changed, 1 insertion(+)

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
nothing to commit, working tree clean

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$

```

⇒ **Git commit -a**

- This command commits any files added in the repository with git add and also commits any files you've changed since then.

Pushing the file inside the git repo :

→ git repo remote origin

origin ⇒ the git hub repo

Git remote Command :

- Git Remote command is used to connect your local repository to the remote server.
- This command allows you to create, view, and delete connections to other repositories.
- These connections are more like bookmarks rather than direct links into other repositories.
- This command doesn't provide real-time access to repositories.

⇒ Copy http of repo

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<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

hero0000987 Initial commit

README.md Initial commit

README.md

TestRepo

This is a test file to learn git

Clone

HTTPS SSH GitHub CLI

https://github.com/hero0000987/TestRepo.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git remote add origin https://github.com/hero0000987/TestRepo.git

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git remote
origin
```

⇒ Pushing the files inside the origin [git hub repo]

Git push origin master :

This command sends the changes made on the master branch, to your remote repository.

```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 450 bytes | 150.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/hero0000987/TestRepo/pull/new/master
remote:
To https://github.com/hero0000987/TestRepo.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

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master had recent pushes 1 minute ago Compare & pull request

master 2 branches 0 tags

Go to file Add file Code

This branch is 2 commits ahead, 1 commit behind main. Contribute

hero0000987 Initial2 baby d4aff88 13 minutes ago 2 commits

file1.txt Initial2 baby 13 minutes ago

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

Summarize :

ex. adding file2.txt to origin (git hub repo)

```
global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file2.txt

nothing added to commit but untracked files present (use "git add" to track)

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git add .

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file2.txt

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git commit -m "adding file2"
[master 9dbe509] adding file2
 1 file changed, 1 insertion(+)
 create mode 100644 file2.txt

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git push -u origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 144.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/hero0000987/TestRepo.git
   d4aff88..9dbe509  master -> master
branch 'master' set up to track 'origin/master'.

global@DESKTOP-ML4PC6H MINGW64 ~/Music/Git hub/demo repo 1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
```

→ No need to add origin again after committing the files, as it was add previously.

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<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

👤 master had recent pushes 2 minutes ago

Compare & pull request

👤 master

🌿 2 branches

🏷️ 0 tags

Go to file

Add file

Code

This branch is 3 commits ahead, 1 commit behind main.

🔗 Contribute

👤 hero0000987 adding file2

9dbes09 3 minutes ago

🕒 3 commits

📄 file1.txt

Initial2 baby

25 minutes ago

📄 file2.txt

adding file2

3 minutes ago

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

Add a README

Concept :

Local repo →

Music > Git hub > demo repo 1

| Name | # | Title |
|-------------|---|-------|
| 📄 file1.txt | | |
| 📄 file2.txt | | |

Remote repo →

hero0000987 / TestRepoPublic

Pin

U

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

👤 master had recent pushes 2 minutes ago

Compare & pull request

👤 master

🌿 2 branches

🏷️ 0 tags

Go to file

Add file

Cod

This branch is 3 commits ahead, 1 commit behind main.

🔗 Contribute

👤 hero0000987 adding file2

9dbes09 5 minutes ago

🕒 3 comm

📄 file1.txt

Initial2 baby

27 minutes a

📄 file2.txt

adding file2

5 minutes a