GitHub Documentation

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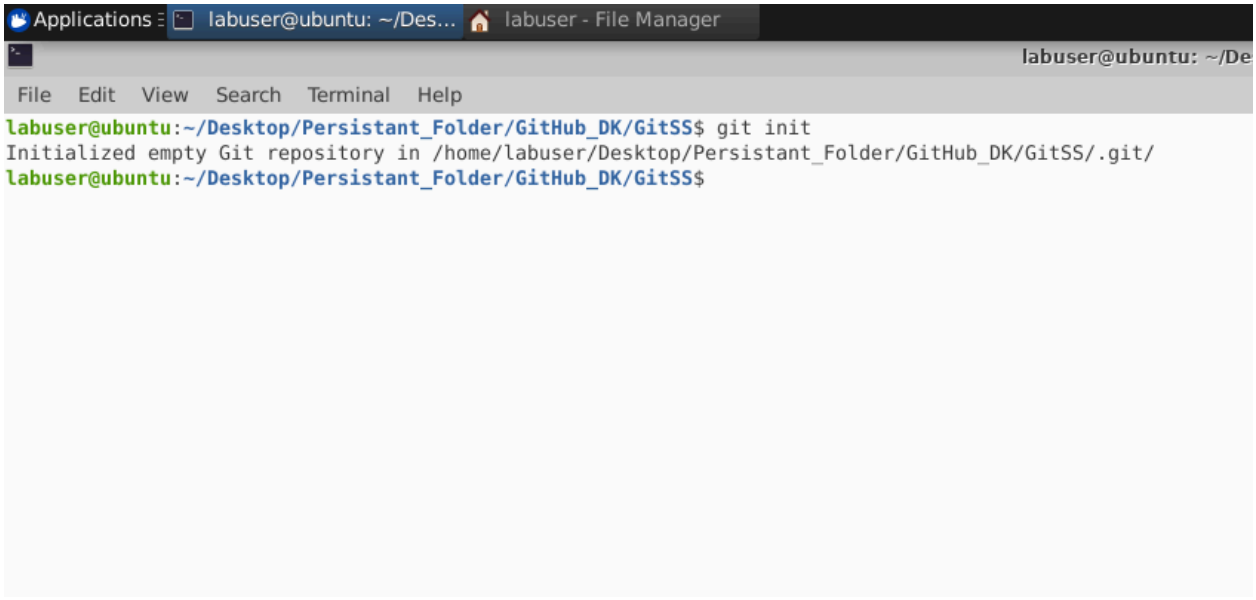
1. Initiating the local git:

$ git init



2. Generating SSH Key Pair

$ ssh-keygen -t rsa -b 4096 -C "kthanmughil@gmail.com"
$ ssh-add id_rsa

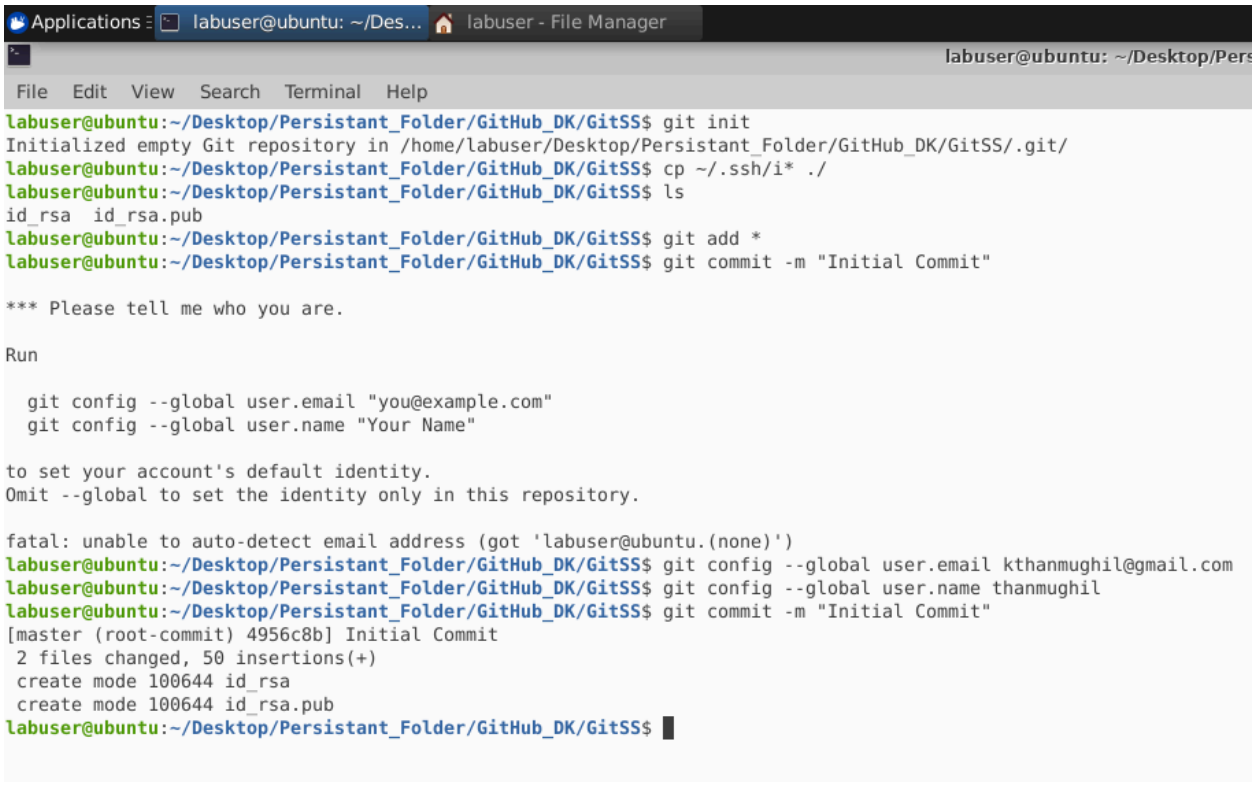
=> Add SSH key to GitHub account in web interface.

3. Setting the configurations

$ git config --global user.name "thanmughil"
$ git config --global user.email "kthanmughil@gmail.com"

4. Staging and committing changes

$ git add *
$ git commit -m "Initial Commit"



5. Adding new file and committing the changes

$ nano simple.txt // Or use any existing data to write into this file

$ git add simple.txt
$ git commit -m "New File Added"

6. Create a remote to push or pull files

$ git remote add gitDoc git@github.com:thanmughil/WMGitDoc.git
$ git remote -v

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git remote add gitDoc git@github.com:thanmughil/WMGitDoc.git
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git branch -v
* master 0abe6e6 New File Added
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git push -u gitDoc master
Warning: Permanently added 'github.com,20.207.73.82' (ECDSA) to the list of known hosts.
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 3.57 KiB | 1.78 MiB/s, done.
Total 7 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), done.
To github.com:thanmughil/WMGitDoc.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'gitDoc'.
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git branch -v
* master 0abe6e6 New File Added
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$
```

7. Removing private key

$ git rm id_rsa
$ git commit -m "Remove Private Key"
$ git push

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git rm id_rsa
rm 'id_rsa'
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git commit -m "Remove Private Key"
[master 51aa488] Remove Private Key
 1 file changed, 49 deletions(-)
 delete mode 100644 id_rsa
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 273 bytes | 273.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0)
To github.com:thanmughil/WMGitDoc.git
   0abe6e6..51aa488  master -> master
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$
```

8. Create New Branch and push it to cloud

$ git checkout -b dev
$ git add *
$ git commit -m “New Branch”
$ git push gitDoc HEAD:dev

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git checkout -b dev
Switched to a new branch 'dev'
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git cp ../ScreenShot/* ./
git: 'cp' is not a git command. See 'git --help'.

The most similar commands are
        am
        fsck
        gc
        grep
        help
        mv
        rm
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ cp ../ScreenShot/* ./
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git status
On branch dev
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        config&commit.png
        deleteFile.png
        init.png
        newFile.png
        remote&push.png

nothing added to commit but untracked files present (use "git add" to track)
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git add *
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git commit -m "New Branch"
[dev b7b030b] New Branch
 5 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 config&commit.png
 create mode 100644 deleteFile.png
 create mode 100644 init.png
 create mode 100644 newFile.png
 create mode 100644 remote&push.png
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git push gitDoc HEAD:dev
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 734.14 KiB | 3.37 MiB/s, done.
Total 7 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:      https://github.com/thanmughil/WMGitDoc/pull/new/dev
remote:
To github.com:thanmughil/WMGitDoc.git
 * [new branch]      HEAD -> dev
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$
```

9. Merge Branches and push to cloud

$ git checkout master
$ git merge dev
$ git push

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'gitDoc/master'.
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git merge dev
Updating 51aa488..b7b030b
Fast-forward
 config&commit.png | Bin 0 -> 133824 bytes
 deleteFile.png    | Bin 0 -> 223717 bytes
 init.png          | Bin 0 -> 42482 bytes
 newFile.png       | Bin 0 -> 197360 bytes
 remote&push.png   | Bin 0 -> 229910 bytes
 5 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 config&commit.png
 create mode 100644 deleteFile.png
 create mode 100644 init.png
 create mode 100644 newFile.png
 create mode 100644 remote&push.png
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git push
Total 0 (delta 0), reused 0 (delta 0)
To github.com:thanmughil/WMGitDoc.git
   51aa488..b7b030b  master -> master
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git status
On branch master
Your branch is up to date with 'gitDoc/master'.

nothing to commit, working tree clean
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$
```

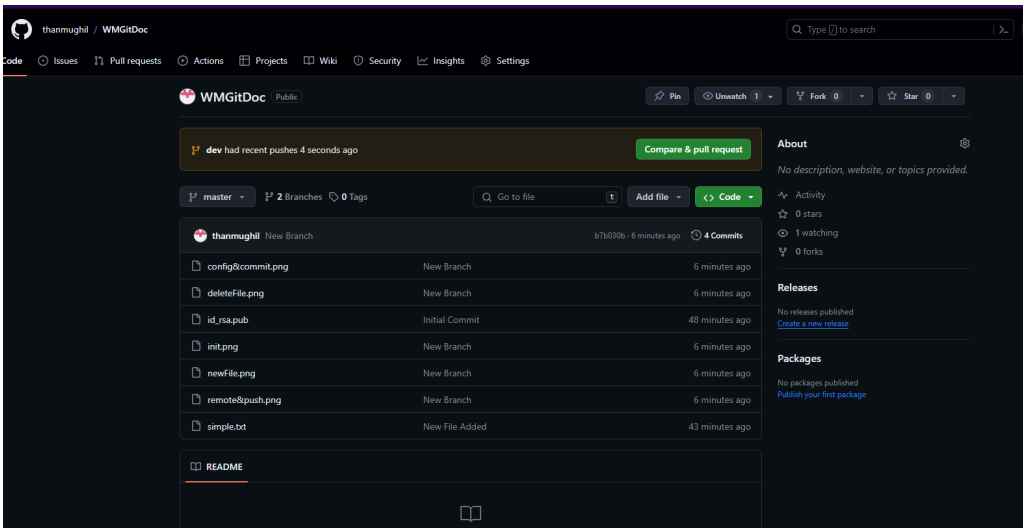
10. Pull Request in Web Interface

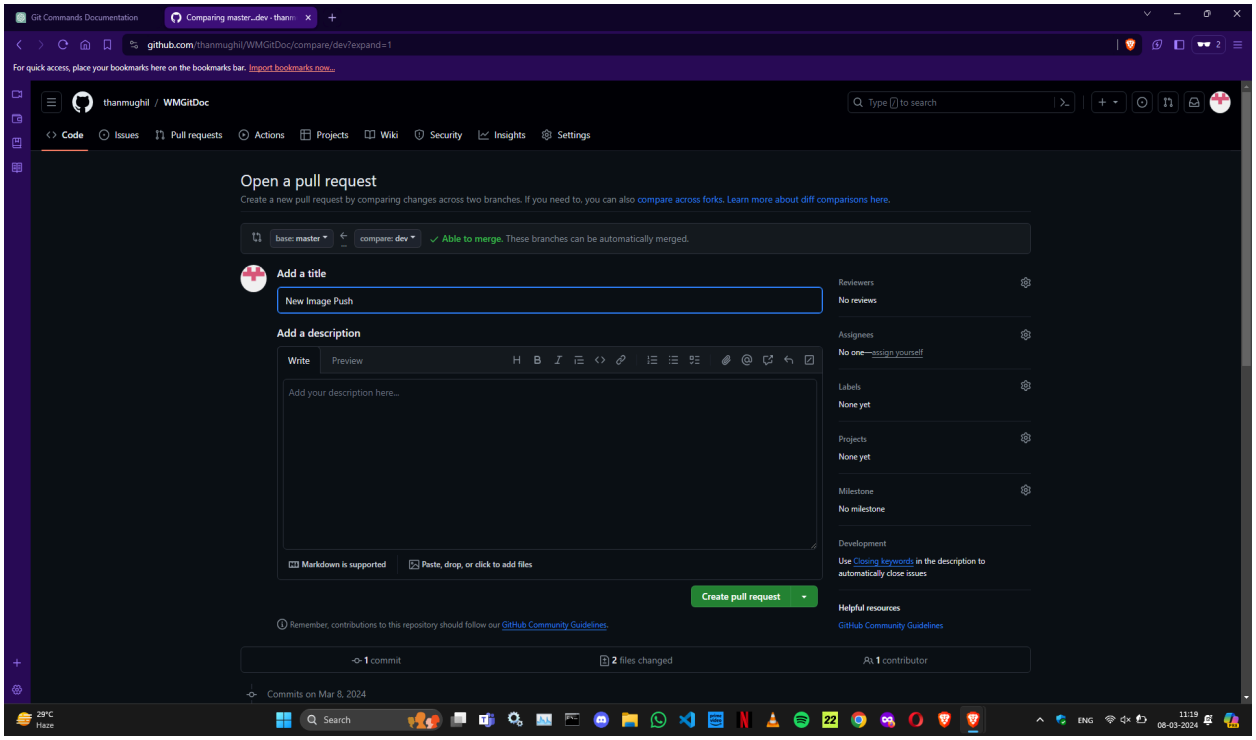
// Make changes in dev first

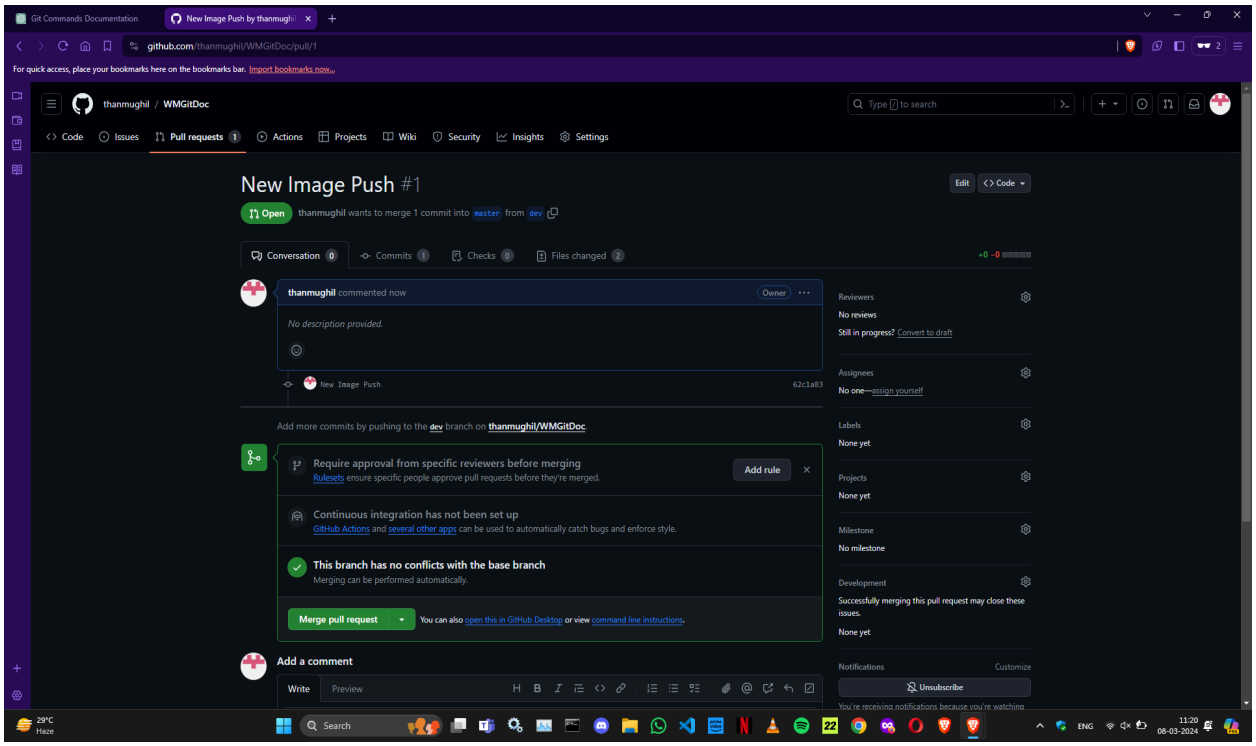
$ git checkout dev
$ cp ../ScreenShot/* ./
$ git add *
$ git commit -m “New Image Push”
$ git push -u gitDoc HEAD:dev

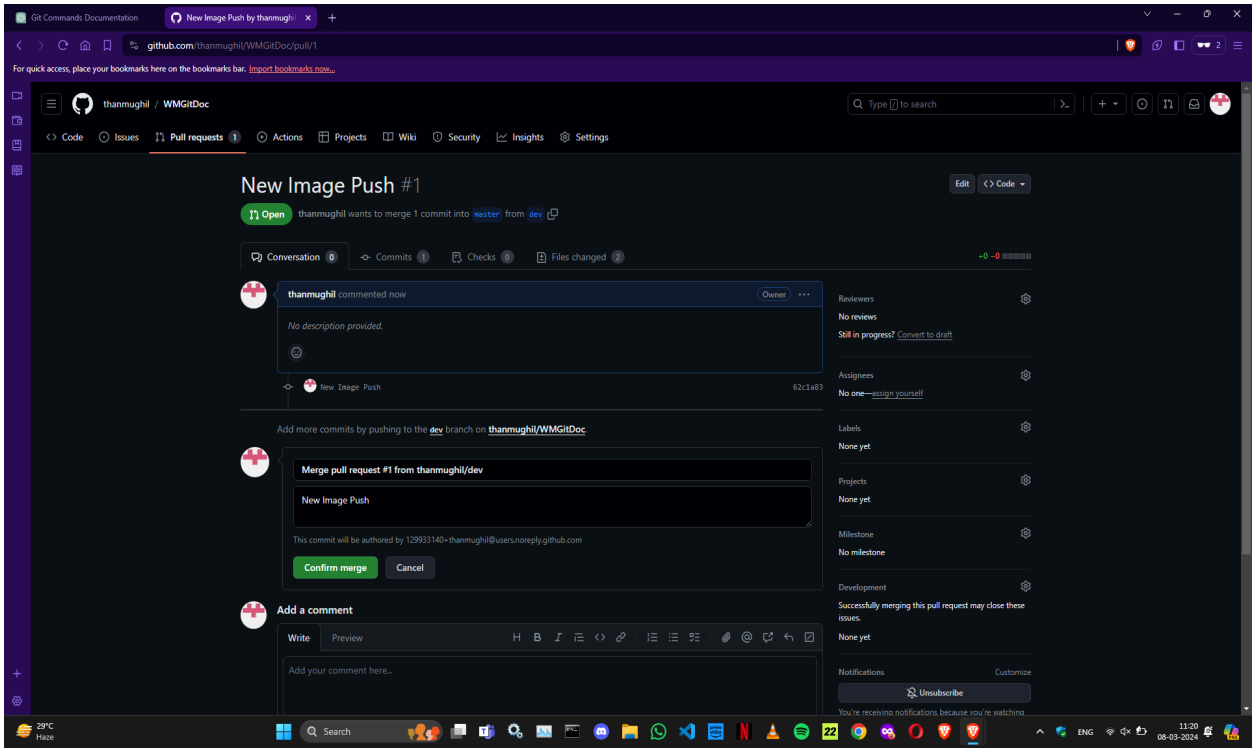
```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git checkout dev
Switched to branch 'dev'
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ cp ../ScreenShot/* ./
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git status
On branch dev
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        mergeBranches.png
        newBranch.png

nothing added to commit but untracked files present (use "git add" to track)
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git add *.png
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git commit -m "New Image Push"
[dev 62c1a83] New Image Push
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 mergeBranches.png
 create mode 100644 newBranch.png
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git push -u gitDoc HEAD:dev
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 337.21 KiB | 1.64 MiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:thanmughil/WMGitDoc.git
   b7b030b..62c1a83  HEAD -> dev
Branch 'dev' set up to track remote branch 'dev' from 'gitDoc'.
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$ git status
On branch dev
Your branch is up to date with 'gitDoc/dev'.

nothing to commit, working tree clean
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitSS$
```

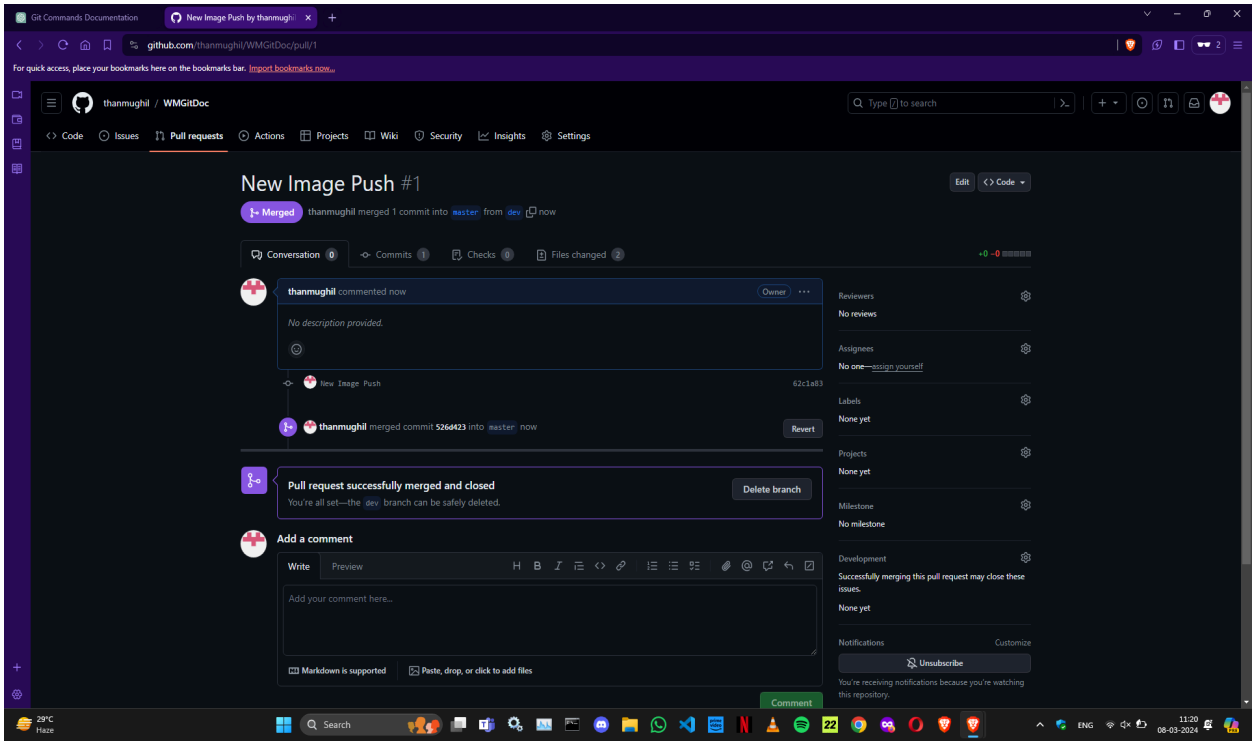
// Changes have been done to the dev branch, now go online to the web interface to
// create a pull request and merge it to master branch




Git Commands Documentation
Comparing master...dev · thanmu
github.com/thanmughil/WMGitDoc/compare/dev?expand=1
For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...
thanmughil / WMGitDoc
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Open a pull request
Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. Learn more about diff comparisons here.
base: master
compare: dev
Able to merge. These branches can be automatically merged.
Add a title
New Image Push
Add a description
Write
Preview
Add your description here...
Markdown is supported
Paste, drop, or click to add files
Create pull request
Remember, contributions to this repository should follow our GitHub Community Guidelines.
Reviewers
No reviews
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Use Closing keywords in the description to automatically close issues
Helpful resources
GitHub Community Guidelines
1 commit
2 files changed
1 contributor
Commits on Mar 8, 2024
29°C
Haze
Search
ENG
11:19
08-03-2024


Git Commands Documentation
New Image Push by thanmughi
github.com/thanmughil/WMGitDoc/pull/1
For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...
thanmughil / WMGitDoc
Type / to search
Code
Issues
Pull requests 1
Actions
Projects
Wiki
Security
Insights
Settings
New Image Push #1
Edit
Code
Open
thanmughil wants to merge 1 commit into master from dev
Conversation 0
Commits 1
Checks 0
Files changed 2
+0 −0
thanmughil commented now
Owner
No description provided.
New Image Push
62c1a83
Add more commits by pushing to the dev branch on thanmughil/WMGitDoc.
Require approval from specific reviewers before merging
Rulesets ensure specific people approve pull requests before they're merged.
Add rule
Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.
This branch has no conflicts with the base branch
Merging can be performed automatically.
Merge pull request
You can also open this in GitHub Desktop or view command line instructions.
Add a comment
Write
Preview
Reviewers
No reviews
Still in progress? Convert to draft
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Successfully merging this pull request may close these issues.
None yet
Notifications
Customize
Unsubscribe
You're receiving notifications because you're watching
29°C
Haze
Search
ENG
11:20
08-03-2024


Git Commands Documentation
New Image Push by thanmughil
github.com/thanmughil/WMGitDoc/pull/1
thanmughil / WMGitDoc
Code
Issues
Pull requests 1
Actions
Projects
Wiki
Security
Insights
Settings
New Image Push #1
Edit
Code
Open
thanmughil wants to merge 1 commit into master from dev
Conversation 0
Commits 1
Checks 0
Files changed 2
thanmughil commented now
Owner
No description provided.
New Image Push
62c1a83
Add more commits by pushing to the dev branch on thanmughil/WMGitDoc.
Merge pull request #1 from thanmughil/dev
New Image Push
This commit will be authored by 129933140+thanmughil@users.noreply.github.com
Confirm merge
Cancel
Add a comment
Write
Preview
Add your comment here...
Reviewers
No reviews
Still in progress? Convert to draft
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Successfully merging this pull request may close these issues.
None yet
Notifications
Customize
Unsubscribe
You're receiving notifications because you're watching
29°C
Haze
Search
ENG
11:20
08-03-2024


Git Commands Documentation
New Image Push by thanmughil
github.com/thanmughil/WMGitDoc/pull/1
thanmughil / WMGitDoc
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
New Image Push #1
Edit
Code
Merged
thanmughil merged 1 commit into master from dev now
Conversation 0
Commits 1
Checks 0
Files changed 2
thanmughil commented now
Owner
No description provided.
New Image Push
62c1a83
thanmughil merged commit 526d423 into master now
Revert
Pull request successfully merged and closed
You're all set—the dev branch can be safely deleted.
Delete branch
Add a comment
Write
Preview
Add your comment here...
Markdown is supported
Paste, drop, or click to add files
Comment
Reviewers
No reviews
Assignees
No one—assign yourself
Labels
None yet
Projects
None yet
Milestone
No milestone
Development
Successfully merging this pull request may close these issues.
None yet
Notifications
Customize
Unsubscribe
You're receiving notifications because you're watching this repository.
29°C
Haze
Search
ENG
11:20
08-03-2024

11. Pull Updated master from Cloud after merge via Web Interface

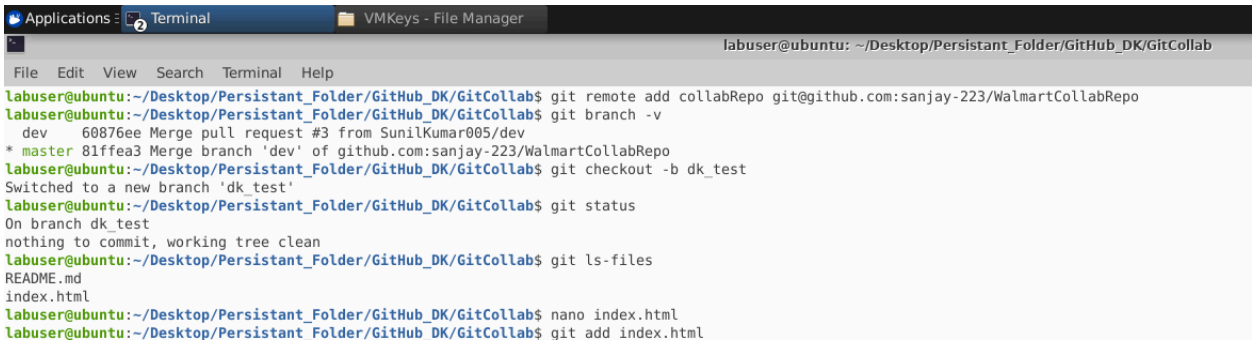
// Also local merge and pushes have been done to simulate pull request via Web UI

12. Collaborate with others (access enabled)

$ git checkout -b dk_test
$ git remote add repoFork git@github.com:sanjay-223/WalmartCollabRepo.git
$ git pull repoFork

// Switched to a new branch to perform changes

$ nano index.html
$ git add index.html



// Push to Collab Repo

$ git commit -m "File Modification"
$ git push -u collabRepo HEAD:dk_test

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git config --global user.name "thanmughil"
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git config --global user.email "kthanmughil@gmail.com"
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git commit -m "File Modification"
[dk_test 8c54dd0] File Modification
```

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git push -u collabRepo HEAD:dk_test
Enumerating objects: 32, done.
Counting objects: 100% (32/32), done.
Delta compression using up to 2 threads
Compressing objects: 100% (31/31), done.
Writing objects: 100% (32/32), 5.61 KiB | 574.00 KiB/s, done.
Total 32 (delta 8), reused 0 (delta 0)
remote: Resolving deltas: 100% (8/8), done.
remote:
remote: Create a pull request for 'dk_test' on GitHub by visiting:
remote:      https://github.com/sanjay-223/WalmartCollabRepo/pull/new/dk_test
remote:
To github.com:sanjay-223/WalmartCollabRepo
 * [new branch]      HEAD -> dk_test
Branch 'dk_test' set up to track remote branch 'dk_test' from 'collabRepo'.
```

/* Above code pushes changes to the new branch which can be used to create Pull Requests and then merge into master (Done via Web UI) */

// Merge to local branch and push to remote

git checkout master
git merge dk_test // Resolve merge conflicts, if any.
git push repoFork HEAD:master

```
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git merge dk_test
Updating 81ffea3..8c54dd0
Fast-forward
 index.html | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git push -u collabRepo HEAD:master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 380 bytes | 380.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:sanjay-223/WalmartCollabRepo
   02acfff..79b0da5  HEAD -> master
Branch 'master' set up to track remote branch 'master' from 'collabRepo'.
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$ git ls-files
README.md
index.html
labuser@ubuntu:~/Desktop/Persistant_Folder/GitHub_DK/GitCollab$
```

/* If no access is given, fork the repo (web interface), clone it to local (same procedure as above), make changes and push to forked repo, then create pull request (Web UI) to the original repo */