

FEBRUARY 25, 2023

DevOps Classroomnotes 25/Feb/2023

Git Authentication Methods

- · Git has two popular authentication methods
 - username and password/token
 - ssh key pair
- Creating a PAT for GitHub Refer Here
- Use ssh-keygen to generate id_rsa and id_rsa.pub files in <HOME-DIR>/.ssh
- copy the id rsa.pub in GitHub => Settings => SSH and GPG keys => New SSH Key

Git Remote and Branches

The command to push git push <remote-name> <branch-name>

Upstream branches

• In Git while pushing the code if we observe the following errors

```
$ git push
fatal: The current branch main has no upstream branch.
To push the current branch and set the remote as upstream, use
    git push --set-upstream origin main

See git-pull(1) for details.
    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:
    git branch --set-upstream-to=origin/<branch> master
```

• By setting the upstream branch we are setting the default remote

Making changes in Local commits

• We have the latest commit in which there is typo in commit message which we want to correct

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/commitrework (master)
$ git log
           d46f1b8ad146a8ddeafd9e4ddc3f0ddb2e3d (HEAD -> master)
Author: shaikkhajaibrahim <qtkhajacloud@gmail.com>
        Sat Feb 25 08:07:14 2023 +0530
   (aded)main.py
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/commitrework (mas
$ git log --oneline
      46 (HEAD -> master) aded main.py
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/commitrework (mas

$ git commit --fixup=reword:8775d46
[master 5b03752] amend! aded main.py
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitr
                                                      /commitrework (mas
$ git log --oneline
  03752 (HEAD -> master) amend! aded main py
8775d46 aded main.py
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/commitrework (mas
```

Now i want to delete this extra commit and then fix typo

- Clone the code from Refer Here
- git commit --amend can be used to reword the latest commit not previous
- Look at classroom video to
- edit: make the changes in commit
- reword: change the commit message
- squash: combine commits
- Exercise: Refer Here. Try to solve atleast 10 exercises.

Git Repository Types

- Bare Repository: This repository will have only .git folder no working tree. This is used generally on server sides on git remotes
- mirror Repostiory: This repository also will have only .git folder and used to cater to other users
- Normal Repositoru: Here we get working tree as well as .git and is used for development.

Other topics

- Force push git push --force this command pushes the changes to git remote and overrides the remote repo history.
- Git maintains two logs in your local repo
 - log
 - ref log: maintains the history of all changes done into local

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/temp/gitpractice/RRR (main)

$ git reflog
deeeb97 (HEAD -> main, origin/main, origin/HEAD) HEAD@{0}: rebase (finish): returning to
refs/heads/main
deeeb97 (HEAD -> main, origin/main, origin/HEAD) HEAD@{1}: rebase (start): checkout HEAD-
2
bf86257 HEAD@{2}: clone: from https://github.com/GitPracticeRepo/RRR.git
```

• Try git log examples and git diff examples

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