MENU ☰

FEBRUARY 16, 2023

DevOps Classroomnotes 16/Feb/2023

Git

- We will be using Git for local repository.
- For today and next session, assume we have one user and one system.
- Installing Git on Windows: Follow classroom recording

Create a folder and make this a local repo using git

- Create a folder anywhere on your system

```
mdkir c:\gitpractice
cd c:\gitpractice
mkdir hellogit
cd hellogit
```

- on *nix systems

```
mkdir -p /tmp/gitpractice/hellogit
cd /tmp/gitpractice/hellogit
```

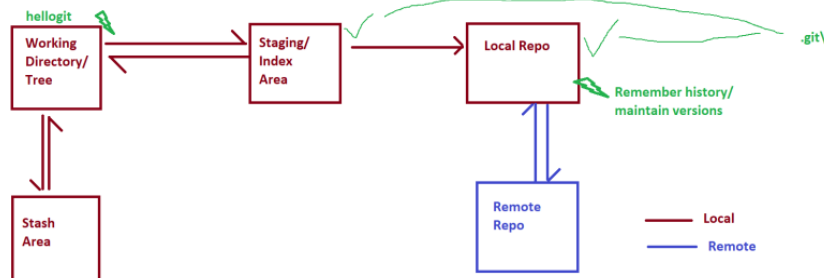- To create a local repo using a initalize command `init` in git

- Current state

- For the changes to be versioned we need to have the changes in local repo.
  - We work on working tree
  - move the changes to staging area
  - move the changes from staging area to local repo
  - once the changes are in local repo we have some version, who has done the change, when the change was done, changes

- Lets create a main.py in src folder and ask for status

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ mkdir src

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ touch src/main.py

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master

No commits yet

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

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

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$
```

- lets add the changes

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git add ./src/

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   src/main.py
```

- Lets commit the changes

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git commit -m "This is my first commit"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'qtdevops@qtgitworkstatio.(none)')

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$
```
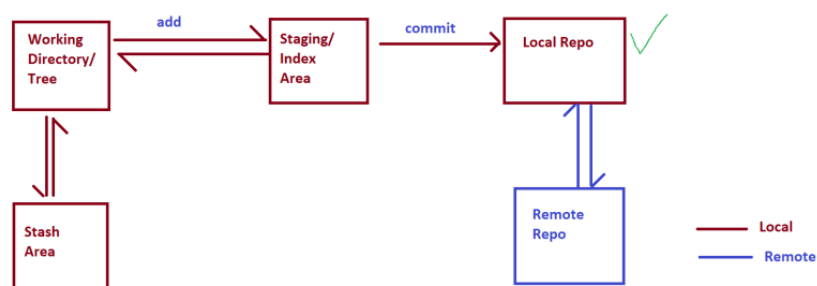
- Git asks for who you are, configure email and username. Then commit

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git config --global user.email qtkhajadevops@gmail.com

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git config --global user.name qtkhajadevops

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git commit -m "This is my first commit"
[master (root-commit) b5a5ccd] This is my first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 src/main.py
```

- Workflow

- Now check the status

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master
nothing to commit, working tree clean
```

- Working tree clean represents your working tree has no changes over and top of what is present in your local repo.
- Lets check history

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git log
commit b5a5ccd157bd659d7d4f7387fae37c07fd701225 (HEAD -> master)
Author: qtkhajadevops <qtkhajadevops@gmail.com>
Date:    Thu Feb 16 03:20:30 2023 +0000

     This is my first commit
```

- Lets add one more change

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ touch src/app.py

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        src/app.py

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

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git add src/app.py
```

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   src/app.py

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git commit -m "This is my second commit"
[master 47be13f] This is my second commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 src/app.py
```

```
qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git status
On branch master
nothing to commit, working tree clean

qtdevops@qtgitworkstatio MINGW64 /c/gitpractice/hellogit (master)
$ git log
commit 47be13fb22cb5c31fbe74b2185cd9c054b5da544 (HEAD -> master)
Author: qtkhajadevops <qtkhajadevops@gmail.com>
Date:    Thu Feb 16 03:29:01 2023 +0000

     This is my second commit

commit b5a5ccd157bd659d7d4f7387fae37c07fd701225
Author: qtkhajadevops <qtkhajadevops@gmail.com>
Date:    Thu Feb 16 03:20:30 2023 +0000

     This is my first commit
```

-

Leave a Reply

Enter your comment here...

This site uses Akismet to reduce spam. Learn how your comment data is processed.

About continuous learner

devops & cloud enthusiastic learner

VIEW ALL POSTS

◀ PREVIOUS POST

Azure Classroomnotes 16/Feb/2023

NEXT POST

AWS Classroomnotes 16/Feb/2023