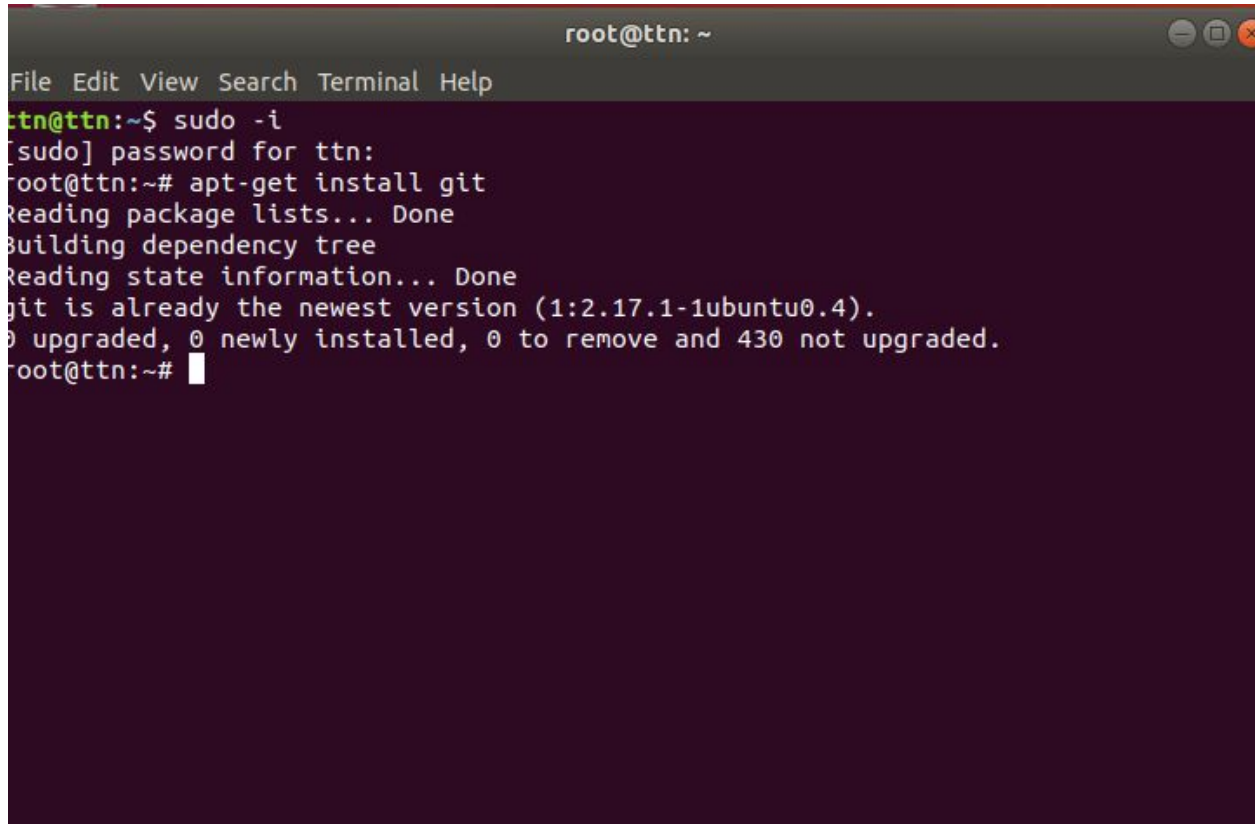


Anita Yadav

Group 5

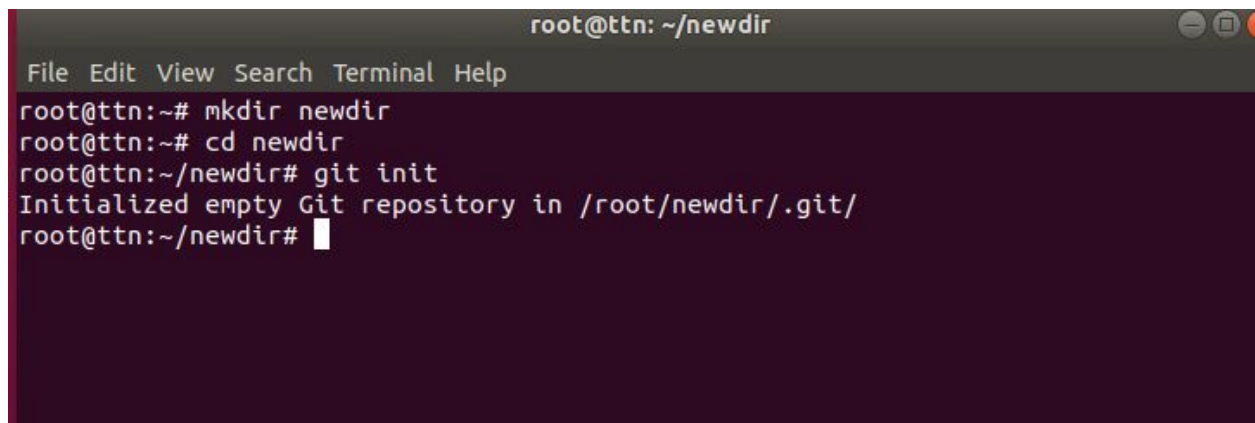
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1. Git Setup <https://confluence.atlassian.com/bitbucket/set-up-git-744723531.html>

A terminal window titled 'root@ttn: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the installation of Git using apt-get. The user runs 'sudo -i' to become root, then 'apt-get install git'. The output shows that Git is already the newest version (1:2.17.1-1ubuntu0.4) and no packages need to be upgraded or removed.

```
root@ttn: ~  
File Edit View Search Terminal Help  
ttn@ttn:~$ sudo -i  
[sudo] password for ttn:  
root@ttn:~# apt-get install git  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
git is already the newest version (1:2.17.1-1ubuntu0.4).  
0 upgraded, 0 newly installed, 0 to remove and 430 not upgraded.  
root@ttn:~#
```

2. Initialize a Git Repository

A terminal window titled 'root@ttn: ~/newdir' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the creation of a new directory 'newdir', changing into it, and initializing a Git repository. The output of 'git init' is 'Initialized empty Git repository in /root/newdir/.git/'.

```
root@ttn: ~/newdir  
File Edit View Search Terminal Help  
root@ttn:~# mkdir newdir  
root@ttn:~# cd newdir  
root@ttn:~/newdir# git init  
Initialized empty Git repository in /root/newdir/.git/  
root@ttn:~/newdir#
```

3. Add files to the repository

```
root@ttn:~/newdir# echo "welcome">abc.txt
root@ttn:~/newdir# cat abc.txt
welcome
```

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# ll
total 20
drwxr-xr-x 3 root root 4096 Feb  5 17:01 ./
drwx----- 8 root root 4096 Feb  5 16:30 ../
-rw-r--r-- 1 root root    8 Feb  5 16:58 abc.txt
drwxr-xr-x 7 root root 4096 Feb  5 17:03 .git/
-rw-r--r-- 1 root root    6 Feb  5 17:01 xyz.txt
root@ttn:~/newdir# git add ..
fatal: ...: '..' is outside repository
root@ttn:~/newdir# git add .
root@ttn:~/newdir#
```

4. Unstage 1 file

```
root@ttn:~/newdir# git reset HEAD -- abc.txt
root@ttn:~/newdir# git status
On branch master

No commits yet

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

        new file:   xyz.txt

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

        abc.txt
```

5. Commit the file

```
root@ttn:~/newdir# git commit -m "committing the file"
[master (root-commit) c63e07f] committing the file
1 file changed, 1 insertion(+)
create mode 100644 xyz.txt
```

6. Add a remote

```
root@ttn:~/newdir# git remote add origin https://github.com/AnitaYadav25/newrepo.git
root@ttn:~/newdir# get remote -v

Command 'get' not found, but there are 18 similar ones.

root@ttn:~/newdir# git remote -v
origin  https://github.com/AnitaYadav25/newrepo.git (fetch)
origin  https://github.com/AnitaYadav25/newrepo.git (push)
root@ttn:~/newdir#
```

7. Undo changes to a particular file

```
File Edit View Search Terminal Help
root@ttn:~/newdir# git checkout -- xyz.txt
root@ttn:~/newdir#
```

8. Push changes to Github

```
root@ttn: ~/newdir
File Edit View Search Terminal Help

root@ttn:~/newdir# git push -u origin master
Username for 'https://github.com': Anitayadav25
Password for 'https://Anitayadav25@github.com':
Counting objects: 3, done.
Writing objects: 100% (3/3), 217 bytes | 217.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/AnitaYadav25/newrepo.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
root@ttn:~/newdir#
```

9.Clone the repository

```
root@ttn:~# git clone https://github.com/AnitaYadav25/oublicrepo.git
Cloning into 'oublicrepo'...
warning: You appear to have cloned an empty repository.
root@ttn:~#
```

10.Add changes to one of the copies and pull the changes in the other.

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# touch nwfile
root@ttn:~/newdir# echo "newfile">nwfile
root@ttn:~/newdir# git add --all
root@ttn:~/newdir# git commit
[anita1 b63c76e] "comiiting"
1 file changed, 1 insertion(+)
create mode 100644 nwfile
root@ttn:~/newdir# git push -u origin master
Username for 'https://github.com': AnitaYadav25
Password for 'https://AnitaYadav25@github.com':
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
root@ttn:~/newdir#

root@ttn:~/newdir# git checkout anita
Switched to branch 'anita'
root@ttn:~/newdir# ls
abc.txt  file  File  filetocheck  nam  newfile  xyz.txt
root@ttn:~/newdir# git pull origin master
From https://github.com/AnitaYadav25/newrepo
* branch          master      -> FETCH_HEAD
Merge made by the 'recursive' strategy.
 anitafile | 1 +
1 file changed, 1 insertion(+)
create mode 100644 anitafile
root@ttn:~/newdir# ls
abc.txt  anitafile  file  File  filetocheck  nam  newfile  xyz.txt
root@ttn:~/newdir#
```


12.Ignore a few files to be checked in

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# nano .gitignore
root@ttn:~/newdir# touch ignoreThis,thisalso
root@ttn:~/newdir# nano .gitignore
root@ttn:~/newdir# git status
On branch change
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   difffile

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

    ignoreThis,thisalso

root@ttn:~/newdir#
```

13.Create a new branch.

```
root@ttn:~/newdir# git checkout -b anita
Switched to a new branch 'anita'
root@ttn:~/newdir#
```

14.Diverge them with commits

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# touch diversefile
root@ttn:~/newdir# echo "before">diversefile
root@ttn:~/newdir# git add --all
root@ttn:~/newdir# git commit
[anita1 ca11b90] "commit"
 3 files changed, 3 insertions(+), 2 deletions(-)
 create mode 100644 diffFile
 create mode 100644 diversefile
root@ttn:~/newdir# git checkout anita
Switched to branch 'anita'
root@ttn:~/newdir# cat diversefile
cat: diversefile: No such file or directory
```

15. Edit the same file at the same line on both branches and commit

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# echo "something to" >file
root@ttn:~/newdir# cat file
something to
root@ttn:~/newdir# git add -- all
git: 'add--' is not a git command. See 'git --help'.
root@ttn:~/newdir# git add --all
root@ttn:~/newdir# git commit
[anita1 e166335] "something is to be commiteed"
 1 file changed, 1 insertion(+), 3 deletions(-)
root@ttn:~/newdir# git push -u origin master
Username for 'https://github.com': AnitaYadav25
Password for 'https://AnitaYadav25@github.com':
Branch 'master' set up to track remote branch 'master' from 'origin'.
Everything up-to-date
root@ttn:~/newdir#
```

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# git status
On branch anita1
nothing to commit, working tree clean
root@ttn:~/newdir# cat file
some content to stash
root@ttn:~/newdir# git add -all
error: did you mean '--all' (with two dashes ?)
root@ttn:~/newdir# git add --all
root@ttn:~/newdir# git commit
On branch anita1
nothing to commit, working tree clean
root@ttn:~/newdir# git pull origin maser
fatal: Couldn't find remote ref maser
root@ttn:~/newdir#
```

17. Stash the changes and pop them

```
root@ttn: ~/newdir
File Edit View Search Terminal Help
root@ttn:~/newdir# echo "some content to stash" >file
root@ttn:~/newdir# git status
On branch anita1
changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   file

no changes added to commit (use "git add" and/or "git commit -a")
root@ttn:~/newdir# git stash
Saved working directory and index state WIP on anita1: 5c1a643 "gahjajaja"
root@ttn:~/newdir# git stash pop
On branch anita1
changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   file

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (253c2f6982c212f33bb8a9550789976dd03501ed)
root@ttn:~/newdir#
```