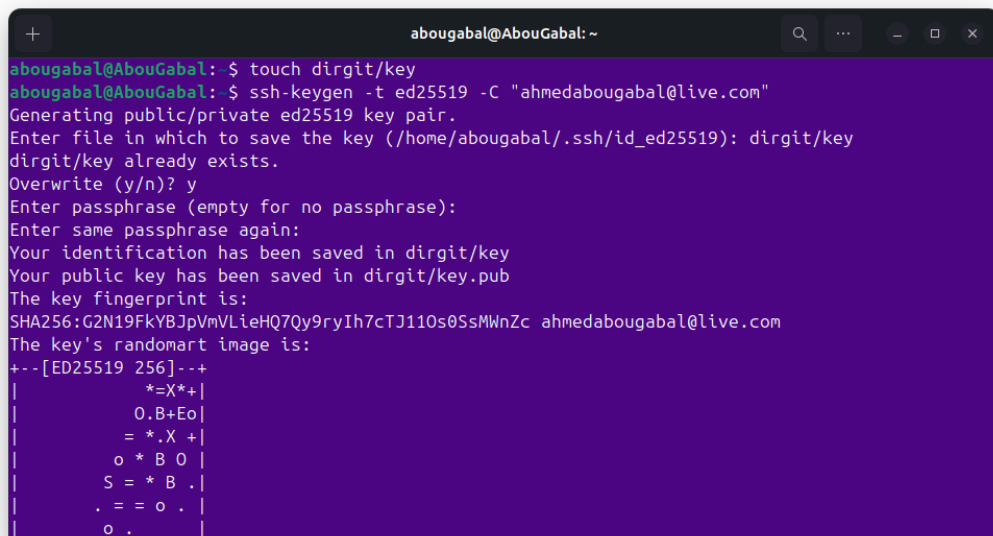


[08]

Scenario 1 version-control

Day 1 assignment

```
abougabal@AbouGabal:~$ cat /home/abougabal/dirgit/key.pub  
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIF3KXRc0/j2GxkGNX9FFC/rQTc00TezQ0942hDBZPANX ahmedabougabal@live.com
```



A terminal window titled 'abougabal@AbouGabal: ~' with standard window controls. The terminal shows the following commands and output:

```
abougabal@AbouGabal:~$ touch dirgit/key  
abougabal@AbouGabal:~$ ssh-keygen -t ed25519 -C "ahmedabougabal@live.com"  
Generating public/private ed25519 key pair.  
Enter file in which to save the key (/home/abougabal/.ssh/id_ed25519): dirgit/key  
dirgit/key already exists.  
Overwrite (y/n)? y  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in dirgit/key  
Your public key has been saved in dirgit/key.pub  
The key fingerprint is:  
SHA256:G2N19FkYBjPvMVLieHQ7Qy9ryIh7cTJ110s0SsMWnZc ahmedabougabal@live.com  
The key's randomart image is:  
+--[ED25519 256]--+  
|      *X*+|  
|    O.B+Eo|  
|   = *.X +|  
|  o * B O |  
|   S = * B .|  
| . = = o . |  
| o .      |
```

```
abougabal@AbouGabal: ~  
dir10      file.zip  'my testing dir'  ping.txt        testing  
dir12      geeks.txt  note.txt          Public          type.txt  
dir90      hello     note.z           PycharmProjects Videos  
dirgit     hello.txt  oldpasswd        rm             ziptest1.txt  
docs       impo      output2.txt      robin          ziptest2.txt  
abougabal@AbouGabal:~$ lsdirgit  
lsdirgit: command not found  
abougabal@AbouGabal:~$ ls dirgit  
key  key.pub  
abougabal@AbouGabal:~$ cat dirgit/key  
-----BEGIN OPENSSH PRIVATE KEY-----  
b3BlbnNzaC1rZXktdjEAAAABG5vbmUAAAABm9uZQAAAAAAAAABAAAAMwAAAAAtzc2gtZW  
QyNTUxOQAAACBdyl0XNP49hsZBjV/RXwv60E3NDk3s0DveNoQwWTwDVwAAAKBvqQoEb6kK  
BAAAAAtzc2gtZWQyNTUxOQAAACBdyl0XNP49hsZBjV/RXwv60E3NDk3s0DveNoQwWTwDVw  
AAAECCzSLsQaSyPOuRa+F3MTxuB3A2EC4A+ADmc3hH5q1PLV3KXRc0/j2GxkGNX9FFC/rQ  
Tc0T0TezQ0942hDBZPANXAAAF2FobWVkyWJvdWdhYmFsQGxpdmUuY29tAQIDBAUG  
-----END OPENSSH PRIVATE KEY-----  
abougabal@AbouGabal:~$ cat dirgit/key.pub  
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIF3KXRc0/j2GxkGNX9FFC/rQTc0T0TezQ0942hDBZPANX ahmedabougabal  
@live.com  
abougabal@AbouGabal:~$ |
```

```
abougabal@AbouGabal: ~/dirgit  
abougabal@AbouGabal:~/dirgit$ git init  
hint: Using 'master' as the name for the initial branch. This default branch name  
hint: is subject to change. To configure the initial branch name to use in all  
hint: of your new repositories, which will suppress this warning, call:  
hint:  
hint:   git config --global init.defaultBranch <name>  
hint:  
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and  
hint: 'development'. The just-created branch can be renamed via this command:  
hint:  
hint:   git branch -m <name>  
Initialized empty Git repository in /home/abougabal/dirgit/.git/  
abougabal@AbouGabal:~/dirgit$ ls -altr  
total 24  
drwxrwxrwx 35 abougabal mohamed 4096 Jun 13 15:40 .  
-rw-r--r--  1 abougabal mohamed 105 Jun 13 15:46 key.pub  
-rw-r--r--  1 abougabal mohamed 419 Jun 13 15:46 key  
-rw-r--r--  1 abougabal mohamed  9 Jun 13 15:56 file1  
drwxr-xr-x  3 abougabal mohamed 4096 Jun 13 15:56 .  
drwxr-xr-x  7 abougabal mohamed 4096 Jun 13 15:56 .git  
abougabal@AbouGabal:~/dirgit$ |
```

```
abougabal@AbouGabal: ~/dirgit
abougabal@AbouGabal:~/dirgit$ ls -altr
total 24
drwxrwxrwx 35 abougabal mohamed 4096 Jun 13 15:40 .
-rw-r--r--  1 abougabal mohamed  105 Jun 13 15:46 key.pub
-rw-r--r--  1 abougabal mohamed  419 Jun 13 15:46 key
-rw-r--r--  1 abougabal mohamed    9 Jun 13 15:56 file1
drwxr-xr-x  3 abougabal mohamed 4096 Jun 13 15:56 .
drwxr-xr-x  7 abougabal mohamed 4096 Jun 13 15:56 .git
abougabal@AbouGabal:~/dirgit$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
abougabal@AbouGabal:~/dirgit$
```

```
abougabal@AbouGabal: ~/dirgit
abougabal@AbouGabal:~/dirgit$ git add .
abougabal@AbouGabal:~/dirgit$ git status
On branch master

No commits yet

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

abougabal@AbouGabal:~/dirgit$ git commit -m "first ever commit"
[master (root-commit) 0ef1841] first ever commit
 1 file changed, 1 insertion(+)
 create mode 100644 file1
abougabal@AbouGabal:~/dirgit$ git log
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2 (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date:   Thu Jun 13 16:00:45 2024 +0300

    first ever commit
abougabal@AbouGabal:~/dirgit$ |
```

```
abougabal@AbouGabal: ~/dirgit
abougabal@AbouGabal:~/dirgit$ git commit -m "first ever commit"
[master (root-commit) 0ef1841] first ever commit
 1 file changed, 1 insertion(+)
 create mode 100644 file1
abougabal@AbouGabal:~/dirgit$ git log
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2 (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date:   Thu Jun 13 16:00:45 2024 +0300

    first ever commit
abougabal@AbouGabal:~/dirgit$ echo "hi again" >> file1
abougabal@AbouGabal:~/dirgit$ 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

no changes added to commit (use "git add" and/or "git commit -a")
abougabal@AbouGabal:~/dirgit$ |
```

```
aboutgabab@AbouGabal: ~/dirgit
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

first ever commit
aboutgabab@AbouGabal:~/dirgit$ echo "hi again" >> file1
aboutgabab@AbouGabal:~/dirgit$ 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

no changes added to commit (use "git add" and/or "git commit -a")
aboutgabab@AbouGabal:~/dirgit$ git add .
aboutgabab@AbouGabal:~/dirgit$ git log
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2 (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

first ever commit
aboutgabab@AbouGabal:~/dirgit$ |
```

```
aboutgabab@AbouGabal: ~/dirgit
aboutgabab@AbouGabal:~/dirgit$ echo "hi again" >> file1
aboutgabab@AbouGabal:~/dirgit$ 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

no changes added to commit (use "git add" and/or "git commit -a")
aboutgabab@AbouGabal:~/dirgit$ git add .
aboutgabab@AbouGabal:~/dirgit$ git log
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2 (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

first ever commit
aboutgabab@AbouGabal:~/dirgit$ git remote add myfirstrepo git@github.com:ahmedabougabal/dirgit.g
it
aboutgabab@AbouGabal:~/dirgit$ echo $?
0
aboutgabab@AbouGabal:~/dirgit$ |
```

```
abougabal@AbouGabal: ~/dirgit
Date: Thu Jun 13 16:13:21 2024 +0300
1 file changed, 1 insertion(+)
abougabal@AbouGabal:~/dirgit$ git log
commit 6d916a9032b391b4ee2ebd70c8e166c120723b0c (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:13:21 2024 +0300

    third

commit 2fefc0be225ab87299b00fa5227a7c5252172404
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:11:41 2024 +0300

    second commit

commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

    first ever commit
abougabal@AbouGabal:~/dirgit$ |
```

```
abougabal@AbouGabal: ~/dirgit
Date: Thu Jun 13 16:13:21 2024 +0300
1 file changed, 1 insertion(+)
abougabal@AbouGabal:~/dirgit$ git log
commit 6d916a9032b391b4ee2ebd70c8e166c120723b0c (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:13:21 2024 +0300

    third

commit 2fefc0be225ab87299b00fa5227a7c5252172404
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:11:41 2024 +0300

    second commit

commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

    first ever commit
abougabal@AbouGabal:~/dirgit$ |
```

```
abougabal@AbouGabal:~/dirgit$ git log
commit 3d0a3b90043a8f4d82f8b84e5f2e805ea81f1350 (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:13:21 2024 +0300
```

second commit

```
commit 2fefc0be225ab87299b00fa5227a7c5252172404
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:11:41 2024 +0300
```

second commit

```
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300
```

first ever commit

```
abougabal@AbouGabal:~/dirgit$ git commit --amend -m "third"
[master 6d916a9] third
Date: Thu Jun 13 16:13:21 2024 +0300
1 file changed, 1 insertion(+)
```

```
abougabal@AbouGabal:~/dirgit$ git log
commit 6d916a9032b391b4ee2ebd70c8e166c120723b0c (HEAD -> master)
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:13:21 2024 +0300
```

third

```
commit 2fefc0be225ab87299b00fa5227a7c5252172404
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:11:41 2024 +0300
```

second commit

```
commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300
```

first ever commit

```
abougabal@AbouGabal:~/dirgit$ |
```

```
Jun 13 4:16 PM
+ abougabal@AbouGabal: ~/dirgit

second commit

commit 0ef18410d70988e43b86f55f2e0bc263dc67f6b2
Author: ahmedabougabal <ahmedabougabal@live.com>
Date: Thu Jun 13 16:00:45 2024 +0300

first ever commit
abougabal@AbouGabal:~/dirgit$ git remote -v
myfirstrepo git@github.com:ahmedabougabal/dirgit.git (fetch)
myfirstrepo git@github.com:ahmedabougabal/dirgit.git (push)
abougabal@AbouGabal:~/dirgit$ git push myfirstrepo
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

git push --set-upstream myfirstrepo master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

abougabal@AbouGabal:~/dirgit$ |
```

```
+ abougabal@AbouGabal: ~/dirgit

file1
key
key.pub

nothing added to commit but untracked files present (use "git add" to track)
abougabal@AbouGabal:~/dirgit$ mv key key.pub /home/abougabal/
abougabal@AbouGabal:~/dirgit$ ls
file1
abougabal@AbouGabal:~/dirgit$ ls -a
. .git file1
abougabal@AbouGabal:~/dirgit$ git add .
abougabal@AbouGabal:~/dirgit$ git status
On branch master

No commits yet

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

abougabal@AbouGabal:~/dirgit$ |
```


ERROR ENCOUNTERED WHEN PUSHING THE COMMIT TO GITHUB DUE TO AN UNEXPECTED KEYPAIRS MISMATCH

```
abougabal@AbouGabal: ~/dirgit
abougabal@AbouGabal:~/dirgit$ git push myfirstrepo
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

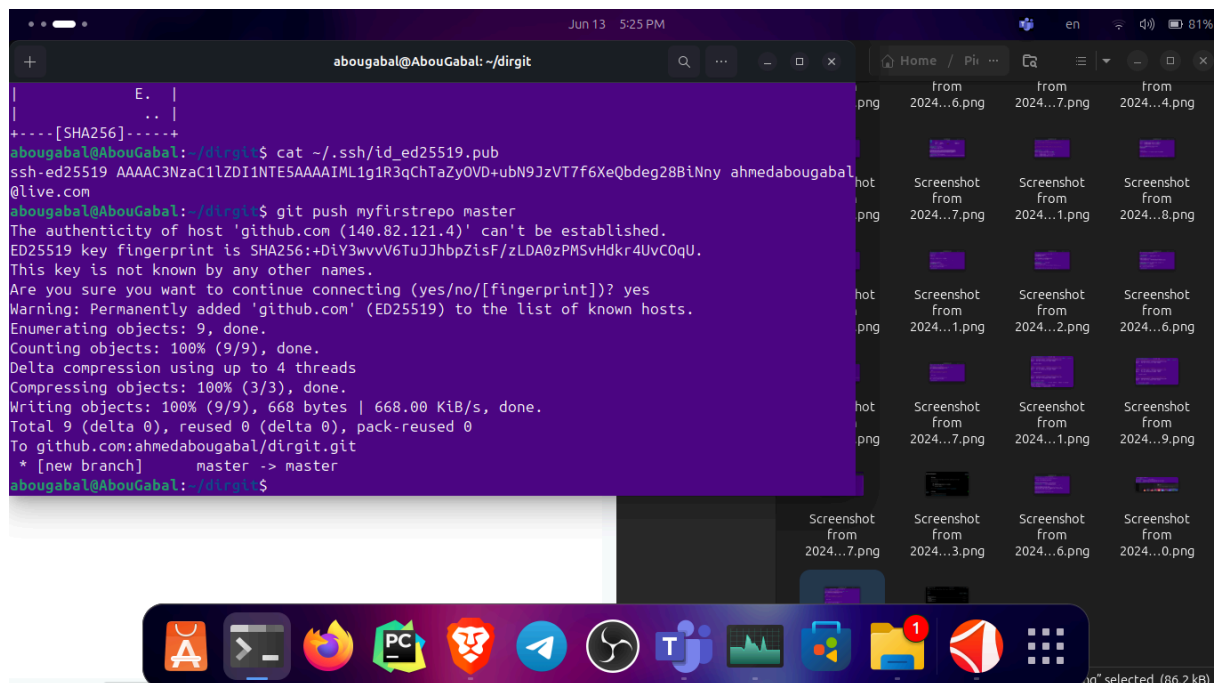
    git push --set-upstream myfirstrepo master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

abougabal@AbouGabal:~/dirgit$ git push myfirstrepo master
The authenticity of host 'github.com (140.82.121.3)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
abougabal@AbouGabal:~/dirgit$
```

ERROR SOLVED AFTER REPEATING STEP 1 AND DELETING ALL CACHED KEYS FROM .ssh file AND GENERATING ANOTHER KEYPAIRS FILE.



Commits have been Successfully logged into the repo.

