

Lab Manual- Git Command

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1 OBJECTIVE

This Lab Exercise is meant for DevOps Engineer who use the comamnd line to manage their git . In tis lab we are going to practicse the below topic

- Create a directory
- Go into the new directory.
- Type git init.
- Write some code.
- Type git add to add the files
- Type git commit.
- Git Branch

2 PRE-REQUISISTE

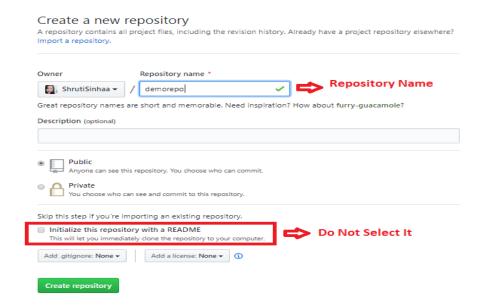
- Prior knowledge of Basic GIT Hub Operation
- GIT Tool Installed
- A local Computer with 4 CPU, 16 GB RAM, 200 GB disk space

3 Start a New Git Repository

We will be creating a new Repository on Github.com using the command line tool

3.1 Create a Repository in Git Hub without Initializing it

Step1: Create a new Repository in git hub and name it demorepo



Step2: Do not select Initialize the Repository



Step3: Click Create Repository

□ ShrutiSinhaa / demorepo							
⟨⟩ Code	① Issues 0	(1) Pull requests (0)	Actions	Projects 0	⊞ Wiki		
Quick setup — if you've done this kind of thing before Set up in Desktop or HTTPS SSH https://github.com/ShrutiSinhaa/demorepo.git							
Get star	ted by creating a	new file or uploading	g an existing file	e. We recommend	every repositor		
or create a new repository on the command line							
git i git a git c git r	dd README.md ommit -m "fir	st commit" gin https://githu	b.com/Shrutis	sinhaa/demorepo	.git		

Step4: Note Down the command we can going to use to create a local repository in Git CMD and push it

3.2 Create a Repository in using GIT CMD

Step1: Open a command prompt and create a Directory demorepo in c:\ drive

C:\ md demorepo

C:\>md demorepo

Step2: Now Go inside the demorepo directory

C:\ cd demorepo

C:\demorepo>

C:\>cd demorepo

c:\demorepo>

Step3: Now create two files README.md and test.txt

C:\ echo "This is Test of GIT Repo" >> README.md

C:\ echo "This is sample code " >> test.txt

C:\demorepo>echo "This is Test of GIT Repo" >> README.md
C:\demorepo>echo "This is sample code " >> test.txt

Step4: Now initialize the local repository



C:\ git init

C:\demorepo>git init Initialized empty Git repository in C:/demorepo/.git/

Step5: Now add the authentication method

C:\ git config --global user.email "shruti.sinha@hotmail.com"

C:\ git config --global user.name "shrutisinhaa"

C:\demorepo>git config --global user.email "shruti.sinha@hotmail.com" C:\demorepo>git config --global user.name "shrutisinhaa"

Step6: Now add both the file

C:\ git add README.md

C:\ git add test.txt

C:\demorepo>git add README.md
C:\demorepo>git add test.txt

Step7: Now commit the file and repo

C:\ git commit -m "first commit"

C:\demorepo>git commit -m "first commit" [master (root-commit) 0514d6d] first commit 2 files changed, 2 insertions(+) create mode 100644 README.md create mode 100644 test.txt

Step8: Now run below command to push you local repo to git hub(The URL you can get from your Repo)

C:\ git remote add origin https://github.com/ShrutiSinhaa/demorepo.git

C:\demorepo>git remote add origin https://github.com/ShrutiSinhaa/demorepo,egitind

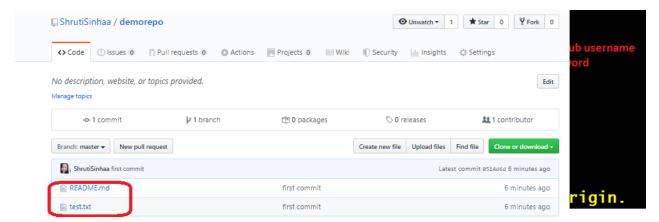
Step9: Now run below command to push you local repo origin (Git Hub)

C:\ git push -u origin master



```
C:\demorepo>git push -u origin master
Fatal: HttpRequestException encountered.
Username for 'https://github.com': shrutisinhaa
Password for 'https://shrutisinhaa@github.com':
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 302 bytes | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/ShrutiSinhaa/demorepo.git
   * [new branch] master -> master
Branch master set up to track remote branch master from origin.
```

Step10: Now Check in gut hub



4 Adding new Code File Push to Repo

echo "this is the test" >> test2.txt

C:\demorepo>echo "this is the test" >> test2.txt

git add test2.txt

C:\demorepo>git add test2.txt

git commit -m " This is second commit"

```
C:\demorepo>git commit -m " This is second commit"
[master 6839b2b] This is second commit
  1 file changed, 1 insertion(+)
  create mode 100644 test2.txt
```

git push --all



```
C:\demorepo>git push --all
Fatal: HttpRequestException encountered.
Username for 'https://github.com': shrutisinhaa
Password for 'https://shrutisinhaa@github.com':
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 327 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/ShrutiSinhaa/demorepo.git
0514d6d..6839b2b master -> master
```

5 Working with Branch

List all Branch

git branch

```
C:\demorepo>git branch
* master
```

Create a new child branch

git branch test

C:\demorepo>git branch test

git branch

```
C:\demorepo>git branch
* master
test
```

Switching to a branch

git checkout test

```
C:\demorepo>git checkout test
Switched to branch 'test'
```

Notice the * sign moved before test

git branch

```
C:\demorepo>git branch
master
* test
```

Return to master

```
C:\demorepo>git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
```