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**Role** : DevOps Engineer

**Task** : R&D on Gitlab and Making dummy commit and documentation

## Introduction :

**Git** :- Git is a distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

**GitLab**:- It is a powerful platform for version control, collaboration, and CI/CD. In this R&D project, we will explore the process of making a dummy commit, documenting it, and pushing it to a GitLab repository.

In this task we use Git Bash as a command line Interface and Gitlab for repository management platform.

## Below are the followed steps :

### 1. Cloning the repository

Git clone <repository\_url>



```
user7@DESKTOP-OUBT094 MINGW64 ~/Desktop/Git-test
$ ls

user7@DESKTOP-OUBT094 MINGW64 ~/Desktop/Git-test
$ git clone https://gitlab.insigniaconsultancy.com/ics-ics-devops/ics-devops-interns.git
Cloning into 'ics-devops-interns'...
remote: Enumerating objects: 62, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 62 (delta 5), reused 0 (delta 0), pack-reused 12
Receiving objects: 100% (62/62), 3.12 MiB | 1.61 MiB/s, done.
Resolving deltas: 100% (5/5), done.

user7@DESKTOP-OUBT094 MINGW64 ~/Desktop/Git-test
$ |
```

## 2.Switching from main branch and adding file in (Komal-Test) branch

```
user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test
$ ls
ics-devops-interns/

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test
$ cd ics-devops-interns

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns (main)
$ ls
README.md

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns (main)
$ git branch
* main

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns (main)
```

```
user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (main)
$ git branch -a
* main
  remotes/origin/Dev
  remotes/origin/Dinesh-Test
  remotes/origin/HEAD -> origin/main
  remotes/origin/Huzefa-Test
  remotes/origin/Komal-Test
  remotes/origin/Mubasher-Test
  remotes/origin/Piyush-Test
  remotes/origin/main

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (main)
$ git checkout Komal-Test
Switched to a new branch 'Komal-Test'
branch 'Komal-Test' set up to track 'origin/Komal-Test'.

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
$ ls
abc.txt

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
$ cat abc.txt
devops is a new culture or process to develop, release and maintain software,
product/project/application with the high quality in a very faster way.

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
```


## 3.Adding Changes to the Staging Area and Committing:


```
user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
$ git commit -m "first initial commit"
[Komal-Test f09cc26] first initial commit
1 file changed, 2 insertions(+)
create mode 100644 demo/abc.txt


user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 462 bytes | 115.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for Komal-Test, visit:
remote:   https://gitlab.insigniaconsultancy.com/ics-ics-devops/ics-devops-interns/-/merge_requests/new?merge_request_from=Komal-Test
remote:
To https://gitlab.insigniaconsultancy.com/ics-ics-devops/ics-devops-interns.git
a957eeb..f09cc26 Komal-Test -> Komal-Test

user7@DESKTOP-OUBTO94 MINGW64 ~/Desktop/Git-test/ics-devops-interns/demo (Komal-Test)
```

#### 4. pushing changes to Gitlab:

 **first initial commit**  
Komal Mhetre authored 5 minutes ago

 Komal-Test ▾ ics-devops-interns / demo / + ▾ Co

Name	Last commit
..	
 abc.txt	first initial commit

#### 5. Below are the commands I use when pushing files to GitLab:

- git clone
- git branch
- git checkout branch
- git add .
- git commit -m
- git push