

# PRACTICAL-1

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- 1) Deploy to GitHub via Git : A Practical
  - Install Git and set up your GitHub account
  - Execute the most popular commands in Git
  - Push all the files from local repository to GitHub.
- 2) Pull changes from Remote repository to Local repository

Moving to local repository and checking git version:

```
MINGW64/c:/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@Akhilesh MINGW64 - (master)
$ cd desktop
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop (master)
$ cd git
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git --version
git version 2.35.1.windows.2
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.sylmlinks=false
pull.rebase=false
credential.helper=manager-core
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=2000030290
user.email=2000030290@kluniversity.in
credential.https://git-codecommit.us-east-1.amazonaws.com.provider=generic
credential.https://git-codecommit.ap-south-1.amazonaws.com.provider=generic
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.sylmlinks=false
core.ignorecase=true
remote.origin.url=https://github.com/2000030290/Cloud-Devops.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git config --global user.name
```

Configuring user:

```
MINGW64/c:/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git config --global user.name
2000030290
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git config --global user.email
2000030290@kluniversity.in
LOHITH SAI AKHILESH@Akhilesh MINGW64 ~/desktop/git (main)
$ git help
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
      [--exec-path<=path>]] [--html-path] [--man-path] [--info-path]
      [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
      [--git-dir<=path>] [--work-tree<=path>] [--namespace=<name>]
      [--super-prefix=<path>] [--config-env=<name>=<envvar>]
      <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
  add        Add file contents to the index
  mv         Move or rename a file, a directory, or a symlink
  restore    Restore working tree files
  rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  diff       Show changes between commits, commit and working tree, etc
  grep       Print lines matching a pattern
  log        Show commit logs
  show       Show various types of objects
  status     Show the working tree status

grow, mark and tweak your common history
  branch     List, create, or delete branches
  commit     Record changes to the repository
  merge      Join two or more development histories together
  rebase     Reapply commits on top of another base tip
  reset      Reset current HEAD to the specified state
  switch     Switch branches
```

## Git initialization and adding few files in local repository and pushing to remote repository

```
MINGW64/c:/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git init
Reinitialized existing Git repository in C:/Users/LOHITH SAI AKHILESH/Desktop/git/.git/

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ touch sample1.txt

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ mkdir lab-1

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ touch data.xlsx

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git add .

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git commit -m "first commit"
[main 55ac742] first commit
5 files changed, 3 deletions(-)
delete mode 100644 lab2/.file1.txt.swp
delete mode 100644 lab2/.file_b1.txt.swp
delete mode 100644 lab2/sample.txt
delete mode 100644 sample.txt
rename lab1.txt => sample1.txt (100%)

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git remote add origin https://github.com/2000030290/cloud-devops.git
error: remote origin already exists.

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git push
Enumerating objects: 20, done.
Counting objects: 100% (20/20), done.
Delta compression using up to 8 threads
Compressing objects: 100% (18/18), done.
Writing objects: 100% (20/20), 2.43 KiB | 249.00 KiB/s, done.
Total 20 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/2000030290/cloud-devops.git
* [new branch] main -> main

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
```

## Creating branches and shifting

```
MINGW64/c:/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ touch file-1.txt

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ vi file-1.txt
[1]+  Stopped                  vi file-1.txt

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git push
Everything up-to-date

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .file-1.txt.swp
        file-1.txt

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

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git branch
* branch2
* main

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git branch branch1

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git add .

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git commit -m "branch commit"
[main 0bde8fb] branch commit
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .file-1.txt.swp
```

## Moving from one branch to another

```
MINGW64 ~/Desktop/git
LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 514 bytes | 257.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/2000030290/Cloud-Devops.git
  55ac742..dbde8fb  main -> main

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git branch branch1
fatal: a branch named 'branch1' already exists

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git push
Everything up-to-date

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git push branch1
fatal: 'branch1' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (main)
$ git checkout branch1
Switched to branch 'branch1'

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git push
fatal: The current branch branch1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin branch1
```

## Merging branches:

```
MINGW64 ~/Desktop/git
LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git push --set-upstream origin branch1
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:   https://github.com/2000030290/Cloud-Devops/pull/new/branch1
remote:
To https://github.com/2000030290/Cloud-Devops.git
 * [new branch]   branch1 -> branch1
branch 'branch1' set up to track 'origin/branch1'.

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git merge main
Updating 55ac742..dbde8fb
Fast-forward
 .file-1.txt.swp | Bin 0 -> 12288 bytes
  file-1.txt      | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 .file-1.txt.swp
 create mode 100644 file-1.txt

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git branch branch2
fatal: a branch named 'branch2' already exists

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git push branch2
fatal: 'branch2' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ ^C

LOHITH SAI AKHILESH@akhilesh MINGW64 ~/desktop/git (branch1)
$ git push --set-upstream origin branch1
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/2000030290/Cloud-Devops.git
  55ac742..dbde8fb  branch1 -> branch1
branch 'branch1' set up to track 'origin/branch1'.
```

```

MINGW64~/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch1)
$ git checkout branch2
Switched to branch 'branch2'
Your branch is up to date with 'origin/branch2'.

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git merge main
Updating 173209f..dbde8fb
Fast-forward
 lab2/.file_b1.txt.swp => .file-1.txt.swp | Bin 12288 -> 12288 bytes
 lab1.txt => file-1.txt | 0
 lab2/sample.txt | 1 -
 sample.txt | 2 --
 lab2/.file1.txt.swp => sample1.txt | 0
5 files changed, 3 deletions(-)
rename lab2/.file_b1.txt.swp => .file-1.txt.swp (97%)
rename lab1.txt => file-1.txt (100%)
delete mode 100644 lab2/sample.txt
delete mode 100644 sample.txt
rename lab2/.file1.txt.swp => sample1.txt (100%)

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git rm file1.txt
fatal: pathspec 'file1.txt' did not match any files

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ ls
data.xlsx file-1.txt lab-1/ sample1.txt

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git rm sample1.txt
rm 'sample1.txt'

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/2000030290/Cloud-Devops.git
 173209f..dbde8fb branch2 -> branch2

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git pull
Already up to date.

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)

```

Git Pull and graphical representation of operations:

```

MINGW64~/Users/LOHITH SAI AKHILESH/desktop/git
LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 682 bytes | 45.00 KiB/s, done.
From https://github.com/2000030290/Cloud-Devops
  dbde8fb..abcb4c6 branch2 -> origin/branch2
Updating dbde8fb..abcb4c6
Fast-forward
 file-1.txt | 2 ++
 1 file changed, 2 insertions(+)

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (branch2)
$ git checkout main
Switched to branch 'main'
0 sample1.txt
Your branch is up to date with 'origin/main'.

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (main)
$ git pull
Already up to date.

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (main)
$ gitk

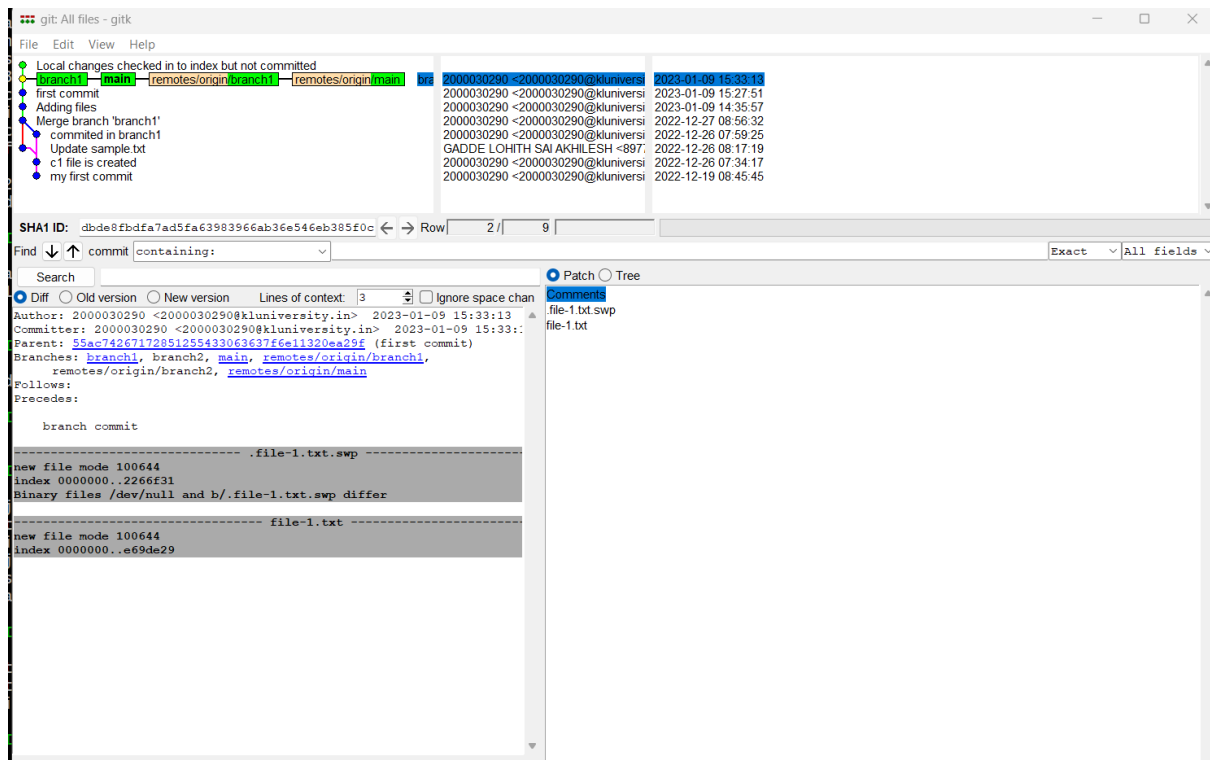
LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (main)
$ git gc
Enumerating objects: 39, done.
Counting objects: 100% (39/39), done.
Delta compression using up to 8 threads
Compressing objects: 100% (36/36), done.
Writing objects: 100% (39/39), done.
Total 39 (delta 14), reused 0 (delta 0), pack-reused 0

LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (main)
$ git fsck
Checking object directories: 100% (256/256), done.
Checking objects: 100% (39/39), done.
Verifying commits in commit graph: 100% (11/11), done.

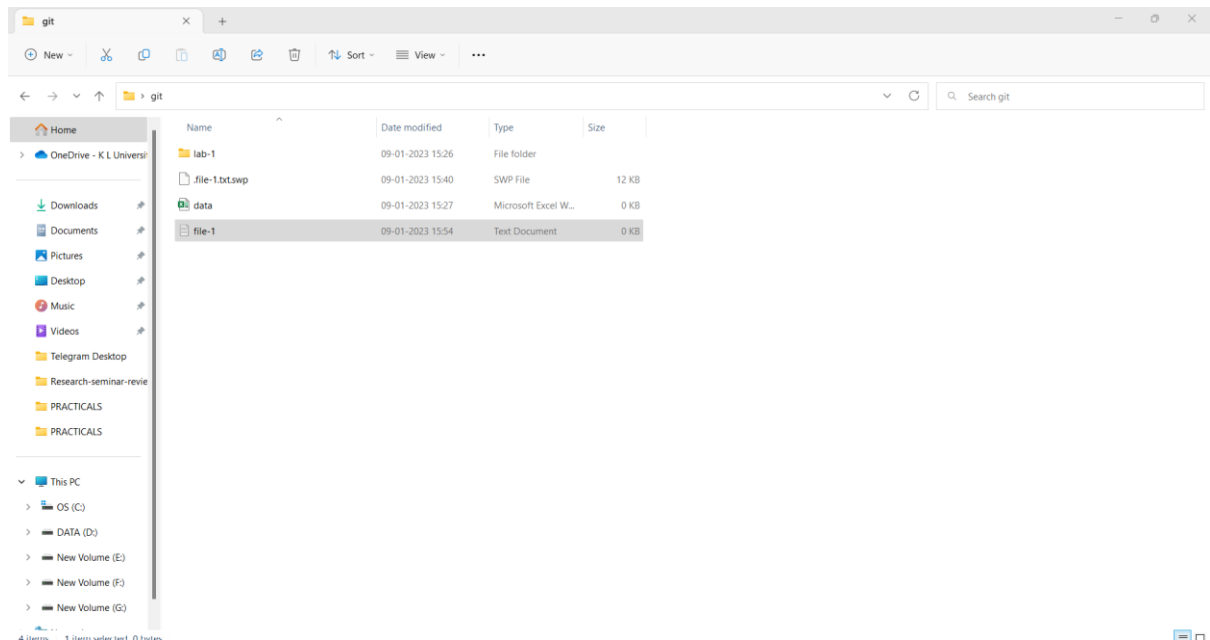
LOHITH SAI AKHILESH@AKHILESH MINGW64 ~/desktop/git (main)
$

```

## Graphical interface of git:



## Local repository:



## Remote repository: pushed files from local to remote repository

The screenshot shows the GitHub repository page for '2000030290 / Cloud-Devops'. The repository is public and has 0 stars, 1 watching, and 0 forks. The main branch is selected, and it is noted that the main branch is not protected. The repository contains 3 branches and 0 tags. The commit history shows 8 commits, with the most recent commit (dbde8fb) pushed 31 minutes ago. The commit details table is as follows:

File	Commit	Time
.file-1.txt.swp	branch commit	31 minutes ago
data.xlsx	my first commit	3 weeks ago
file-1.txt	branch commit	31 minutes ago
sample1.txt	first commit	36 minutes ago

The right sidebar contains sections for 'About' (Cloud - Devops with github), 'Releases' (No releases published), and 'Packages' (No packages published).

## Branch 1: merged with main repository

The screenshot shows the same GitHub repository page after merging branch 1 into the main branch. The repository is still public and has 0 stars, 1 watching, and 0 forks. The main branch is selected, and it is noted that the main branch is up to date with main. The commit history shows 8 commits, with the most recent commit (dbde8fb) pushed 32 minutes ago. The commit details table is as follows:

File	Commit	Time
.file-1.txt.swp	branch commit	32 minutes ago
data.xlsx	my first commit	3 weeks ago
file-1.txt	branch commit	32 minutes ago
sample1.txt	first commit	37 minutes ago

The right sidebar contains sections for 'About' (Cloud - Devops with github), 'Releases' (No releases published), and 'Packages' (No packages published).

### 3 branches created

Search or jump to... / Pull requests Issues Codespaces Marketplace Explore

2000030290 / Cloud-Devops Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

branch2 had recent pushes 22 minutes ago [Compare & pull request](#)

branch1 3 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

Switch branches/tags

Find or create a branch...

Branches Tags

main default

✓ branch1

branch2 [View all branches](#)

sample1.txt

branch commit 32 minutes ago 8 commits

my first commit 3 weeks ago

branch commit 32 minutes ago

first commit 37 minutes ago

dbde8fb 32 minutes ago

Help people interested in this repository understand your project by adding a README. [Add a README](#)

About

Cloud - Devops with github

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

### Pull from remote to local repository:

2000030290 / Cloud-Devops Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Update file-1.txt #1 [Edit](#) [Code](#)

Merged 2000030290 merged 1 commit into main from branch2 now

Conversation 0 Commits 1 Checks 0 Files changed 1 +2 -0

2000030290 commented now [Owner](#) [Reviews](#)

No description provided.

Update file-1.txt [Verified](#) abcb4c6 [Assignees](#)

No one—assign yourself

2000030290 merged commit 89b3a76 into main now [Revert](#) [Labels](#)

None yet

Pull request successfully merged and closed [Delete branch](#) [Projects](#)

You're all set—the branch2 branch can be safely deleted.

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these

Changes that are pulled:

2000030290 / Cloud-DevopsPublic

Pin

Unwatch1

Fork0

Star0

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

mainCloud-Devops / file-1.txt

Go to file

2000030290 Update file-1.txt

Latest commit abc46c 24 minutes ago

History

1 contributor

2 lines (2 sloc) | 33 Bytes

Raw

Blame

1 hello developer

2 just a change