

- Installing git-lfs
 - # yum install git-lfs -y

```
Last login: Wed Jul 24 14:08:55 2024 from 13.233.177.3
[ec2-user@ip-172-31-11-31 ~]$ sudo su
[root@ip-172-31-11-31 ec2-user]# yum search git-lfs
Last metadata expiration check: 1 day, 0:45:50 ago on Wed Jul 24 09:00:29 2024.
===== Name Exactly Matched: git-lfs =====
git-lfs.x86_64 : Git extension for versioning large files
[root@ip-172-31-11-31 ec2-user]# yum install git-lfs -y
```

- Downloading sample file having size more than 200 MB using
 - # wget <https://examplefile.com/file-download/31>

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# wget https://examplefile.com/file-download/31
--2024-07-25 09:48:29-- https://examplefile.com/file-download/31
Resolving examplefile.com (examplefile.com)... 172.67.180.59, 104.21.35.220, 2606:4700:3031::ac43:b43b, ...
Connecting to examplefile.com (examplefile.com)[172.67.180.59]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/plain]
Saving to: '31'

31 [ 200.00M 24.3MB/s in 8.9s]

2024-07-25 09:48:39 (22.5 MB/s) - '31' saved [209715205]

[root@ip-172-31-11-31 git_assignment_HeroVired]# ls -lrt
total 204808
-rw-r--r--. 1 root root 209715205 Dec  9  2023 31
-rw-r--r--. 1 root root      975 Jul 24 14:48 calculator.py
```

- # rename 31 sample.txt 31

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# ls -lrt
total 204808
-rw-r--r--. 1 root root 209715205 Dec  9  2023 sample.txt
-rw-r--r--. 1 root root      975 Jul 24 14:48 calculator.py
```

- Initialize Git LFS
 - # git lfs install

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# git lfs install
Updated Git hooks.
Git LFS initialized.
[root@ip-172-31-11-31 git_assignment_HeroVired]#
```

- Track the large file types.
 - # git lfs track sample.txt

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# git lfs track sample.txt
Tracking "sample.txt"
[root@ip-172-31-11-31 git_assignment_HeroVired]#
```

- Add the .gitattributes file created by Git LFS
 - # git add .gitattributes

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# git branch
dev
feature-sqrt
* lfs
main
```

- After switching to lfs branch, doing commit
 - #git branch lfs
 - #git checkout lfs
 - #git commit -m "Initialize Git LFS and track sample.txt files"

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# git commit -m "Initialize Git LFS and track sample.txt files"
[1fs 9918af6] Initialize Git LFS and track sample.txt files
Committer: root <root@ip-172-31-11-31.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 3 insertions(+)
create mode 100644 sample.txt
```

- Pushing the code to lfs branch
 - #git push -u git-cal lfs

```
[root@ip-172-31-11-31 git_assignment_HeroVired]# git push -u git-cal lfs
Enumerating objects: 9, done.1/1), 210 MB | 14 MB/s
Counting objects: 100% (9/9), done.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 942 bytes | 471.00 KiB/s, done.
Total 7 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'lfs' on GitHub by visiting:
remote:   https://github.com/devops-bharat05/git_assignment_HeroVired/pull/new/lfs
remote:
To github.com:devops-bharat05/git_assignment_HeroVired.git
 * [new branch]      lfs -> lfs
branch 'lfs' set up to track 'git-cal/lfs'.
```

- Creating separate dir
 - #sudo mkdir lfs-git
 - #ls -lrt | grep lfs-git

```
[root@ip-172-31-11-31 /]# ls -lrt | grep lfs-git
drwxr-xr-x.  2 root root      6 Jul 25 10:09 lfs-git
```

- Cloning lfs branch into lfs-git dir
 - git clone -b lfs --single-branch https://github.com/devops-bharat05/git_assignment_HeroVired.git

```
[root@ip-172-31-11-31 lfs-git]# git clone -b lfs --single-branch https://github.com/devops-bharat05/git_assignment_HeroVired.git
Cloning into 'git_assignment_HeroVired'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 19 (delta 6), reused 16 (delta 3), pack-reused 0
Receiving objects: 100% (19/19), done.
Resolving deltas: 100% (6/6), done.
[root@ip-172-31-11-31 lfs-git]# ls
git_assignment_HeroVired
[root@ip-172-31-11-31 lfs-git]# ls ./git_assignment_HeroVired/
calculator.py  sample.txt
[root@ip-172-31-11-31 lfs-git]# ls -lrt ./git_assignment_HeroVired/
total 204808
-rw-r--r--. 1 root root      975 Jul 25 10:14 calculator.py
-rw-r--r--. 1 root root 209715220 Jul 25 10:14 sample.txt
```