

# Assignment Week-2

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Task:

← DevOps001

## GIT

1. Setup a remote repository in Local , Add a file and commit or save the changes and push to master branch

**Resources :**

<https://www.youtube.com/watch?v=apGV9Kg7ics><https://git-scm.com/book/en/v2>

2. Create a new branch then commit and push the changes to new branch and merge it with the master branch using pull request.

**Resources :**

<https://git-scm.com/book/en/v3>

3. Undo the last commit or remove the last created file from remote repo using CLI

**Resources :**

<https://git-scm.com/book/en/v4>

4. Resolve a merge conflicts

**Resources :**

<https://git-scm.com/book/en/v5>

5. Practice More git commands

**Resources :**

<https://git-scm.com/book/en/v6>

1. Setup a remote repository in Local , Add a file and commit or save the changes and push to master branch

```
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps$ mkdir week-2
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps$ git init
Reinitialized existing Git repository in /home/lavi-singodiya/CSI-DevOps/.git/
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps$ cd week-2
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ 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/lavi-singodiya/CSI-DevOps/week-2/.git/
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git remote add origin https://github.com/lavisingodiya/CSI-DevOps-Week2.git
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ echo "# Week-2 Assignment" > README.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add README.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git commit -m "Initial commit"
[master (root-commit) 362f273] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push -u origin master
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended
modes of authentication.
fatal: Authentication failed for 'https://github.com/lavisingodiya/CSI-DevOps-Week2.git/'
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push -u origin master
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/lavisingodiya/CSI-DevOps-Week2.git/'
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push -u origin master
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 252 bytes | 252.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/lavisingodiya/CSI-DevOps-Week2.git
362f273..596ba01 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

2. Create a new branch then commit and push the changes to new branch and merge it with the master branch using pull request.

```
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ echo "# My Project" > README1.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add .
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git commit -m "Adding files in new branch"
[new-branch 596ba01] Adding files in new branch
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 README1.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push -u origin new-branch-name
Username for 'https://github.com': fatal: could not read Username for 'https://github.com': Success
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push -u origin new-branch
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 350 bytes | 350.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/lavisingodiya/CSI-DevOps-Week2.git
362f273..596ba01 new-branch -> new-branch
Branch 'new-branch' set up to track remote branch 'new-branch' from 'origin'.
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ |
```

### 3. Undo the last commit or remove the last created file from remote repo using CLI

```
lavi-singodiya@Lavi-Singodiy X + v
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ rm README1.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add README1.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git commit -m "Removed the last created file"
[new-branch e38001c] Removed the last created file
1 file changed, 1 insertion(+), 1 deletion(-)
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push origin new-branch
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 304 bytes | 304.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/lavisingodiya/CSI-DevOps-Week2.git
362f273..e38001c new-branch -> new-branch
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ |
```

### 4. Resolve a merge conflicts

```
lavi-singodiya@Lavi-Singodiy X + v
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git fetch origin
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 0), reused 4 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 1.20 KiB | 1.20 MiB/s, done.
From https://github.com/lavisingodiya/CSI-DevOps-Week2
362f273..c812774 master -> origin/master
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git merge origin/master
Merge made by the 'ort' strategy.
 README1.md | 1 +
1 file changed, 1 insertion(+)
create mode 100644 README1.md
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add conflicted-file
fatal: pathspec 'conflicted-file' did not match any files
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add conflicted-file
fatal: pathspec 'conflicted-file' did not match any files
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ ls
README.md README1.md conflict-file.txt
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add conflict-file
fatal: pathspec 'conflict-file' did not match any files
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git add conflict-file.txt
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git commit -m "Resolved merge conflicts"
On branch master
Your branch is ahead of 'origin/master' by 5 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git push origin master
Username for 'https://github.com': lavisingodiya
Password for 'https://lavisingodiya@github.com':
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 12 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (11/11), 1.25 KiB | 1.25 MiB/s, done.
Total 11 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/lavisingodiya/CSI-DevOps-Week2.git
c812774..1d78314 master -> master
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ |
```

## 5. Practice More git commands

```
lavi-singodiya@Lavi-Singodiy x + v
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git clone https://github.com/lavisingodiya/CSI-DevOps-Week2
.git
Cloning into 'CSI-DevOps-Week2'...
remote: Enumerating objects: 21, done.
remote: Counting objects: 100% (21/21), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 21 (delta 5), reused 16 (delta 1), pack-reused 0
Receiving objects: 100% (21/21), done.
Resolving deltas: 100% (5/5), done.
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  CSI-DevOps-Week2/

nothing added to commit but untracked files present (use "git add" to track)
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ git branch
  branch-a
  branch-b
  branch2
* master
  new-branch
  new-branch-name
lavi-singodiya@Lavi-Singodiya:~/CSI-DevOps/week-2$ |
```

GitHub link : <https://github.com/lavisingodiya/CSI-DevOps-Week2.git>