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Top 20 Git Commands With Examples



(/users/3288749/sahiti-k.html) by

Sahiti Kappagantula (/users/3288749/sahiti-k.html) RMVB Jan. 22, 20 · DevOps Zone (/devops-tutorials-tools-news) · Tutorial

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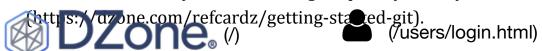


Roadmap to Continuous Delivery Pipeline Maturity Whitepaper



Read the AWS Roadmap to Continuous Palivary Pipeline Maturity Whitepaper to help you improve the current state of your applica pipeline. It includes a maturity model dev the DevOps Institute to help you improve and quality of how you bring applications.

In the previous blog, you got an understanding of what git is (https://www.edureka.co/blog/what-is-git/). In this blog, I will talk about the Top 20 Git Commands that you will be using frequently while you are working with Git



Here are the Git commands which are being covered:

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- git init
- git clone
- · git add
- git commit
- git diff
- git reset
- git status
- git rm
- git log
- · git show
- git tag
- git branch
- git checkout
- git merge
- git remote
- git push
- git pull
- git stash

So, let's get started!

Git Commands

git config

(/users/login.html)

[age: git Coming —grobat user mail "[email address]"

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```
edureka@master:~$ git config --global user.name "sahitikappagantula"
edureka@master:~$ git config --global user.email "sahiti.kappagantula@edureka.co"
```

git init

Usage: git init [repository name]

This command is used to start a new repository.

```
edureka@master:~$ git init /home/edureka/Documents/DEMO
Initialized empty Git repository in /home/edureka/Documents/DEMO/.git/
```

git clone

Usage: git clone [url]

This command is used to obtain a repository from an existing URL.

```
edureka@master:~$ git clone https://github.com/sahitikappagantula/gitexample.git
Cloning into 'gitexample'...
remote: Counting objects: 28, done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 28 (delta 5), reused 28 (delta 5), pack-reused 0
Unpacking objects: 100% (28/28), done.
```

git add

Usage: git add [file]

This command adds a file to the staging area.

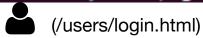
edureka@master:~/Documents/DEMO\$ git add project 1

Usage: git add ∗

This command adds one or more to the staging area.

edureka@master:~/Documents/DEMO\$ git add *





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ZONES This command records or snapshots the file permanently in the version history.

```
edureka@master:~/Documents/DEMO$ git commit -m "First Commit"

[master (root-commit) aff3269] First Commit

9 files changed, 200 insertions(+)
create mode 100644 project_1/css/site.css
create mode 100644 project_1/fonts/segoeuil.ttf
create mode 100644 project_1/img/cloneWhite.svg
create mode 100644 project_1/img/deployWhite.svg
create mode 100644 project_1/img/lightbulbWhite.svg
create mode 100644 project_1/img/stackWhite.svg
create mode 100644 project_1/img/successCloudNew.svg
create mode 100644 project_1/img/successCloudNew.svg
create mode 100644 project_1/img/tweetThis.svg
create mode 100644 project_1/index.html
```

Usage: git commit −a

This command commits any files you've added with the git add command and also commits any files you've changed since then.

```
edureka@master:~/Documents/DEMO$ git commit -a
On branch master
nothing to commit, working tree clean
```

git diff

Usage: git diff

This command shows the file differences which are not yet staged.

```
usage: git uill —stageu
                                                    (/users/login.html)
         (/users/login.ntml)

command shows the differences between the files in the staging area and the
  latest version present.
                             RESEARCH (/research / SWEEDNARS (/webinars)
REFCARDZ (/refcardz)
70: // = a@master:~/Documents/DEMO/project_1/css$ git diff --staged
   diff --git a/project_1/css/site.css b/project_1/css/site.css
   index 25606b6..fba307d 100644
   --- a/project_1/css/site.css
   +++ b/project_1/css/site.css
    html,
   \cdot/* This the css file for the web page we are using for our DEMO ^*/
           body {
               height: 100%;
               width: 100%;
```

Usage: git diff [first branch] [second branch]

This command shows the differences between the two branches mentioned.

git reset

Usage: git reset [file]

This command unstages the file, but it preserves the file contents.

```
edureka@master:~/Documents/DEMO/project_1/css$ git reset site.css
Unstaged changes after reset:
M          project_1/css/site.css
M          project_1/index.html
```

Usage: git reset [commit]

This command undoes all the commits after the specified commit and preserves the changes locally.

```
which ged changes fire eset:

| Description | Continue | Continue
```

REFCARDZ (/refcardz) RESEARCH (/research // SWABDARS (/webinars) ZONES: git reset —hard [commit] This command discards all history and

goes back to the specified commit.

edureka@master:~/Documents/DEMO\$ git reset --hard b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16 HEAD is now at b01557d CHanges made in HTML file

git status

Usage: git status

This command lists all the files that have to be committed.

git rm

Usage: git rm [file]

This command deletes the file from your working directory and stages the deletion.

edureka@master:~/Documents/DEMO/project_2\$ git rm example.txt
rm 'project_2/example.txt'

git log

Usage: git log

This command is used to list the version history for the current branch.

```
edureka@master:~/Documents/DEMO$ git log
commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7 (HEAD -> master)
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date: Fri Jul 20 12:25:17 2018 +0530

Changes made in HTML and CSS file
```



Usage: git log -follow[file]

This command lists version history for a file, including the renaming of files also.

```
edureka@master:~/Documents/DEMO$ git log --follow project_1
commit 2b4c50431c127a0ae9e
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
        Fri Jul 20 12:50:08 2018 +0530
   New file added
commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
       Fri Jul 20 12:25:17 2018 +0530
    Changes made in HTML and CSS file
commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
       Fri Jul 20 12:13:29 2018 +0530
Date:
    CHanges made in HTML file
commit aff3269a856ed251bfdf7ef87acb1716a2a9527a
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
       Fri Jul 20 12:07:28 2018 +0530
Date:
   First Commit
```

git show

Usage: qit show [commit]

This command shows the metadata and content changes of the specified commit.

This command is used to give tags to the specified commit.

```
edureka@master:~/Documents/DEMO$ git tag b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
edureka@master:~/Documents/DEMO$ git tag
iff3269a856ed251bfdf7ef87acb1716a2a9527a
i01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
```

git branch

Usage: git branch

Usage: git tag [commitID]

This command lists all the local branches in the current repository.

```
edureka@master:~/Documents/DEMO$ git branch
* master
```

Usage: git branch [branch name]

This command creates a new branch.

edureka@master:~/Documents/DEMO\$ git branch branch_1

Usage: git branch -d [branch name]

This command deletes the feature branch.

edureka@master:~/Documents/DEMO\$ git branch -d branch_1
Deleted branch branch_1 (was be040cc).

git checkout

Usage: git checkout [branch name]

This command is used to switch from one branch to another.

```
REFCARDZt(/refcardz)utRESEARCH (/research /SWEEDNARS (/webinars)
```

Inis command creates a new pranch and also switches to it.

```
edureka@master:~/Documents/DEMO$ git checkout -b branch_4
Switched to a new branch 'branch_4'
```

git merge

Usage: git merge [branch name]

This command merges the specified branch's history into the current branch.

```
edureka@master:~/Documents/DEMO$ git merge branch_2
Merge made by the 'recursive' strategy.
project_1/index.html | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

git remote

Usage: git remote add [variable name] [Remote Server Link]

This command is used to connect your local repository to the remote server.

edureka@master:~/Documents/DEMO\$ git remote add origin https://github.com/sahitikappagantula/GitDemo.git

git push

Usage: git push [variable name] master

This command sends the committed changes of master branch to your remote repository.

```
edureka@master:~/Documents/DEMO$ git push origin master
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Counting objects: 42, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (32/32), done.
Writing objects: 100% (42/42), 463.10 KiB | 3.62 MiB/s, done.
Total 42 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/sahitikappagantula/GitDemo.git
* [new branch] master -> master
```

```
Usage: git push [variable name] [branch]

(/users/login.html)

(/users/l
```

Usage: git push —all [variable name]

This command pushes all branches to your remote repository.

```
edureka@master:~/Documents/DEMO$ git push --all origin
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/sahitikappagantula/GitDemo.git
  * [new branch] branch_3 -> branch_3
  * [new branch] branch_4 -> branch_4
```

Usage: git push [variable name] :[branch name]

This command deletes a branch on your remote repository.

```
edureka@master:~/Documents/DEMO$ git push origin : branch_2
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Everything up-to-date
```

git pull

Usage: git pull [Repository Link]

This command fetches and merges changes on the remote server to your working directory.

```
edureka@master:~/Documents/DEMOŞ git pull https://github.com/sahitikappagantula/gitlearn.git
warning: no common commits
remote: Counting objects: 13, done.
remote: Compressing objects: 180% (8/8), done.
remote: Total 13 (delta 1), reused 10 (delta 1), pack-reused 8
Unpacking objects: 180% (13/13), done.
From https://github.com/sahitikappagantula/gitlearn
* branch HEAD -> FETCH_HEAD
fatal: refusing to merge unrelated histories
```





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```
edureka@master:~/Documents/DEMO/project_1$ git stash save
Saved working directory and index state WIP or branch_2: 5152fcd Index.html updated
```

Usage: git stash pop

This command restores the most recently stashed files.

Usage: git stash list

This command lists all stashed changesets.

```
edureka@master:~/Documents/DEMO/project_1$ git stash list
stash@{0}: WIP on master: 5f6ba20 Merge branch 'branch_2'
```

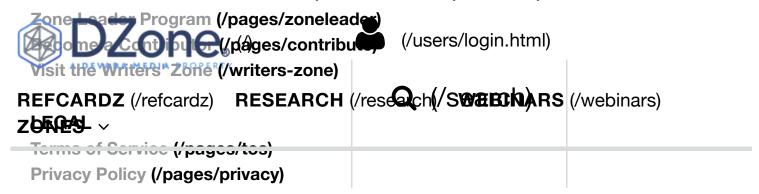
Usage: git stash drop

This command discards the most recently stashed changeset.

```
edureka@master:~/Documents/DEMO/project_1$ git stash drop stash@{0}
Dropped stash@{0} (5e2cbcea1b37d4e5b88854964d6165e461e2309d)
```

Want to learn more about git commands? Here is a Git Tutorial (https://www.edureka.co/blog/git-tutorial/) to get you started. Alternatively, you can take a top-down approach and start with this DevOps Tutorial. (https://www.edureka.co/blog/devops-tutorial)

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