

(How to add,commit | How to push from git to github | How to pull code from github)

Do SSH in your CMD

- → Yum update -y (update your file)s
- → Yum install git –y
- → Which git (check git is installed or not)
- → git -- version

```
ubuntu@ip-172-31-13-21:~$ git --version
git version 2.25.1
ubuntu@ip-172-31-13-21:~$ which git
/usr/bin/git
ubuntu@ip-172-31-13-21:~$ git status
fatal: not a git repository (or any of the parent directories): .git
```

- → first create a directory ,directory name is satyam
- → if I want to convert a directory in repository we use this command (git init)
- → we use cat command to create a new filee.x = cat >file1, after written some data in file, enter ctrl+d to save
- → we use git status to see our file
- → we use **git add** command to move our file in staging area.

▶ We use **git commit -m** to move staging to production, see there are one file changed and two new file are insertion

- → git status commands to know in which branch you are working
- → we use git log to know commit id and commit details

```
root@ip-172-31-13-21:/home/ubuntu/satyam# git status
On branch master
nothing to commit, working tree clean
root@ip-172-31-13-21:/home/ubuntu/satyam# git log
commit fb42f4501a69638a1393d71fd9ce13b2df8452d0 (HEAD -> master)
Author: root <root@ip-172-31-13-21.ap-south-1.compute.internal>
Date: Thu Sep 23 10:32:06 2021 +0000

hello india
root@ip-172-31-13-21:/home/ubuntu/satyam# _
```

→ now, we see our file is move on production server ,we see our commit id ,date and time and we also see a message hello india .

```
root@ip-172-31-13-21:/home/ubuntu/satyam# git status
On branch master
nothing to commit, working tree clean
root@ip-172-31-13-21:/home/ubuntu/satyam# _
```

→ now you see your staging area will be clean because you move your file staging to production.

```
root@ip-172-31-13-21:/home/ubuntu/satyam# git log
commit fb42f4501a69638a1393d71fd9ce13b2df8452d0 (HEAD -> master)
Author: root <root@ip-172-31-13-21.ap-south-1.compute.internal>
Date: Thu Sep 23 10:32:06 2021 +0000

hello india
root@ip-172-31-13-21:/home/ubuntu/satyam# git status
On branch master
nothing to commit, working tree clean
root@ip-172-31-13-21:/home/ubuntu/satyam# git show fb42f45
commit fb42f4501a69638a1393d71fd9ce13b2df8452d0 (HEAD -> master)
Author: root <root@ip-172-31-13-21.ap-south-1.compute.internal>
Date: Thu Sep 23 10:32:06 2021 +0000

hello india

diff --git a/file1 b/file1
new file mode 100644
index 0000000. a5b5be0
--/dev/null
+++ b/file1
@ -0.0 +1,2 @
+hello my name is satyam
+what is your name?
\ No newline at end of file
root@ip-172-31-13-21:/home/ubuntu/satyam#
```

→ if you want to see your file1 data you write a command example => (git show commit -id)

git show fb42f4501a69638a1393d71fd9ce13b2df8452d0

```
root@ip-172-31-7-193:/home/ubuntu/satyam# git commit -m "first commit"
it branch -M main
git remote add origin https://github.com/Satyamtripathi1996/testing-reposiory.git
git push -u origin mainOn branch master
nothing to commit, working tree clean
root@ip-172-31-7-193:/home/ubuntu/satyam# git branch -M main
root@ip-172-31-7-193:/home/ubuntu/satyam# git remote add origin https://github.com/Satyamtripathi1996/testing-reposiory.git
root@ip-172-31-7-193:/home/ubuntu/satyam# git push -u origin main
Username for 'https://github.com': satyam
Password for 'https://satyam@github.com':
remote: Support for password authentication was removed on August 13, 2021. Please use a personal access token instead.
remote: Please see https://github.blog/2020-12-15-token-authentication-requirements-for-git-operations/ for more information.
fatal: Authentication failed for 'https://github.com/Satyamtripathi1996/testing-reposiory.git/'
```

→ If error come please go to this link = https://www.theserverside.com/blog/Coffee-Talk-Java-News-Stories-and-Opinions/Fix-GitHubs-support-for-password-authentication-was-removed-error

How to generate a GitHub personal access token

To generate a personal access token in GitHub and fix the 'support for password authentication removed' error, follow these steps:

- 1. Log into GitHub with your username and password
- 2. Navigate to your GitHub account settings
- 3. Scroll down and click 'Developer settings' in the list of links to the left
- 4. Click the Personal access tokens link
- 5. Click the 'Generate new token' button
- 6. Add a 'Note' to describe the tokens usage
- 7. Set an expiration date for the GitHub personal access token
- 8. Select the appropriate authentication scope
- 9. Click the 'Generate token' button

→

Then copy your personal access token before you navigate away from the page, as the token's alphanumeric value will not be displayed again. The next time you push to GitHub, provide the personal access token instead of the password, and you will have fixed the 'support for password authentication was removed' error.

```
root@ip-172-31-7-193:/home/ubuntu/satyam# git push -u origin main
Username for 'https://github.com': git push origin
Password for 'https://git push origin@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 246 bytes | 246.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/Satyamtripathi1996/testing-reposiory.git
* [new branch] main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
root@ip-172-31-7-193:/home/ubuntu/satyam# _
```

(root@ip-172-31-7-193:/home/Ubuntu/satyam# git push -u origin main)

→ It means you push your file to staging in main branch

- → If you change something in your local repository file and you want to commit your changes in your main github repository file ,firstly run this command
- → root@ip-172-31-7-193:/home/ubuntu/satyam# git add file1
- → root@ip-172-31-7-193:/home/ubuntu/satyam# git commit -m file1
- root@ip-172-31-7-193:/home/Ubuntu/satyam# git push -u origin main

```
Username for 'https://github.com': satyam
Password for 'https://satyam@github.com':
```

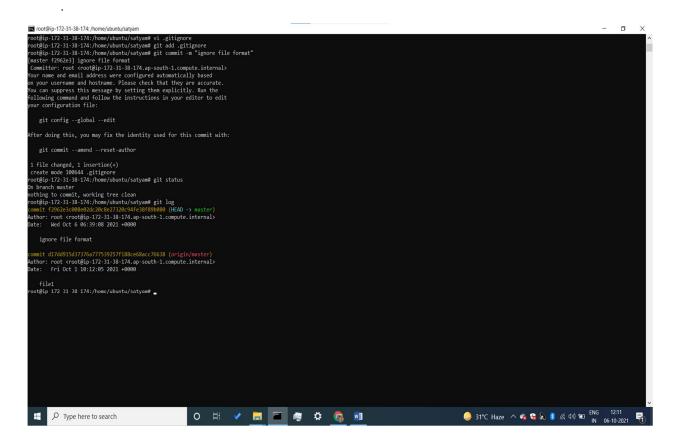
- → If you don't know password again enter your access token in password
- → Now, go and check your main repository has been updated.

DONE SUCCESSFULLY

an create a *.gitignore* file in your repository's root directory to tell Git which files and directories to ignore n you make a commit. To share the ignore rules with other users who clone the repository, commit *gitignore* file in to your repository.

```
ubuntu@ip-172-31-38-174:/\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\squa
```

→ Suppose we don't want to commit any .txt or any type of file extension so we have option to write file name or file extension in .gitignore file and save it they will ignore your file when you commit it



```
a Tookemp-172-31-38-174:/home/ubuntu/satyam
pot@ip-172-31-38-174:/home/ubuntu/satyam# touch file1.txt file2.txt file3.java file4.co
pot@ip-172-31-38-174:/home/ubuntu/satyam# ls
ile1 file1.txt file2.txt file3.java file4.css touch.txt
pot@ip-172-31-38-174:/home/ubuntu/satyam# git status
b branch master
  tracked files:
(use "git add <file>..." to include in what will be committed)
  thing added to commit but untracked files present (use "git add" to track)
ot@ip-172-31-38-174:/home/ubuntu/satyam# git add.
t: 'add.' is not a git command. See 'git --help'.
  e most similar command is
   add
ot@ip-172-31-38-174:/home/ubuntu/satyam# git add .
ot@ip-172-31-38-174:/home/ubuntu/satyam# git status
   anges to be committed:
(use "git restore --staged <file>..." to unstage)
oot@ip-172-31-38-174:/home/ubuntu/satyam# git commit -m "ignore .txt file "
master cc/ca18] ignore .txt file
Committer: root croot@ip-173-31-38-174.ap-south-1.compute.internal>
our name and enail address were configured automatically based
n your username and hostname. Please check that they are accurate.
ou can suppress this message by setting them explicitly. Bun the
collowing command and follow the instructions in your editor to edit
our configuration file:
    git config --global --edit
  ter doing this, you may fix the identity used for this commit with:
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file3.java
create mode 100644 file4.css
oct@ip-172-31-33-174:/home/ubuntu/satyam# git log
ommit cc7ca18be99c99610833473aa7781007568ac32 (HEAD -> master)
uthor: root crocd@ip-172-31-38-174.ap-south-1.compute.internal>
ate: Wed Oct 6 07:47:30 2021 +0000
                                                                                                                                                                                         Type here to search
      root@ip-172-31-38-174:/home/ubuntu/satyam
                 git config --global --edit
               ter doing this, you may fix the identity used for this commit with
             files changed, 0 insertions(+), 0 deletions(-) recate mode 100644 file3.java recate mode 100644 file4.span judget 100644 judget 1006
              mmit f2962e3c008e02dc20c8e27320c94fe38f89b080
thor: root root#ip-172-31-38-174.ap-south-1.compute.internal>
te: Wed 0ct 6 06:39:08 2021 #0000
                            d17dd915d37376a777539257f188cc68acc76638 (origin/master)
:: root <root@ip-172-31-38-174.ap-south-1.compute.internal>
Fri Oct 1 10:12:05 2021 +0000
              (Alto: 1058) - 138-174:/home/ubuntu/satyam# git show.cc7ca18heb0c5
mmit cc7ca18heb0c5010433475aa774102568c32 (HEAD >> mster)
thor: root root@ip-172-31-38-174.aps-south-1.compute.internal>
te: Wed Oct 6 67:47:30 2021 +0000
               ff --git a/file3.java b/file3.java
w file mode 100644
w file mode 100644
file mode 100640
ff --git a/file4.css b/file4.css
w file mode 100640
file mode 100640
file file4.git a/file4.git 
           Type here to search
                                                                                                                                                                                                        O H 🗸 🛅 🔤 🧠 🜣 😘 🐠 🕅 📆
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        root@ip-172-31-38-174:/home/ubuntu/satyam# git log --oneline
                      cc7ca18 (HEAD -> master) ignore .txt file
                       2962e3 ignore file format
                      d17dd91 (origin/master) file1
                      root@ip-172-31-38-174:/home/ubuntu/satyam# _
```

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gg root@ip-172-31-38-174: /home/ubuntu/satyam

→ If you want to see all commit in one line you use this command :- root@ip-172-31-38-174:/home/ubuntu/satyam# git log --oneline

create a username & email

- → git config --global user.name "satyam"
- → git config –global user.email satyamchamptripathi@gmail.com
- → check username & email
- → git config –list

```
root@ip-172-31-7-193:/home/ubuntu/satyam# git config --list
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
remote.origin.url=https://github.com/Satyamtripathi1996/testing-reposiory.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
root@ip-172-31-7-193:/home/ubuntu/satyam#
```

if you want to know in which branch you are working right now

→ git branch

```
* master (if * will come in your branch name it means you are inside this branch)

Satyam

India
```

If you want to create a new branch use this command

→ git branch Allahabad

if you want to change your branch :-

→ Git checkout Allahabad

Master

* Allahabad (Now you are inside a Allahabad branch)