

# Connect Server to Git

**Open Server's CLI and connect via SSH to run following commands:**

EPAM+Shilpi\_Harnal@EPINHYDW0EA8 MINGW64 ~/Downloads

```
$ ssh -i "RSA-key.pem" ec2-user@ec2-54-83-104-153.compute-1.amazonaws.com
```

The authenticity of host 'ec2-54-83-104-153.compute-1.amazonaws.com (54.83.104.153)' can't be established.

ED25519 key fingerprint is SHA256:ZNYbQz/sqXM0jGcNm/ewj/bkFSFDcyl22519adbpq90.

This key is not known by any other names

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-54-83-104-153.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

```
__| __|_ )  
_| ( / Amazon Linux 2 AMI  
__|\__|__|
```

<https://aws.amazon.com/amazon-linux-2/>

```
[ec2-user@ip-172-31-30-147 ~]$ sudo yum install git
```

Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd

Resolving Dependencies

--> Running transaction check

--> Processing Dependency: git-core-doc = 2.37.1-1.amzn2.0.1 for package: git-2.37.1-1.amzn2.0.1.x86\_64

-----

```
]$ mkdir EPAM-project  
]$ cd EPAM-project/
```

## OR

<Folder name should be same as repository name. If you are in different folder then clone the repository with git clone with http link>

```
[ec2-user@ip-172-31-30-147 ~]$ git clone https://github.com/shilpiharnal/EPAM-project.git  
Cloning into 'EPAM-project'...  
remote: Enumerating objects: 3, done.  
remote: Counting objects: 100% (3/3), done.  
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0  
Receiving objects: 100% (3/3), done.
```

```
[ec2-user@ip-172-31-30-147 ~]$ ls  
EPAM-project
```

```
[ec2-user@ip-172-31-30-147 ~]$ cd EPAM-project/  
[ec2-user@ip-172-31-30-147 EPAM-project]$ ls  
t1.txt
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git init  
Reinitialized existing Git repository in /home/ec2-user/EPAM-project/.git/
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git config --global user.name "shilpiharnal"  
[ec2-user@ip-172-31-30-147 EPAM-project]$ git config --global user.email "shilpi13n@gmail.com"
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ ssh-keygen
```

Generating public/private rsa key pair.

Enter file in which to save the key (/home/ec2-user/.ssh/id\_rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /home/ec2-user/.ssh/id\_rsa.

Your public key has been saved in /home/ec2-user/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:G9qio4frSE1vkcG2ns/I7esX4MBb/nBmwgcaCYNIOZI ec2-user@ip-172-31-30-147.ec2.internal

The key's randomart image is:

+---[RSA 2048]-----+

```
| +o.      |  
| E.=.     |  
| . =+.    |  
| .==+     |  
| . +X S   |  
| o oooO O  |  
| . o =o @ . |  
|... =.=. o  |  
|..++..+oBo  |
```

+----[SHA256]-----+

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ cat /home/ec2-user/.ssh/id_rsa.pub
```

ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQACevFMz3EkkJmrixW/X8o68lqFmHaIJ+o88+zXihFpDv1ijOi7OovAnj5  
v9TYWKW9hfpkeCHWSu0U/PbOnufxQQsm/O7Gq9ODX2xPj4qwoLK6sC2i5b6YACsG5Woy7zR9yJ5EUn/QkK  
DiAphomOFmdZ6l2xuLPZanx/4UO3BRiAewondryxxgRI4y2oRLSAMr0PaaSmnnFBfiw8rY2cQMZq/g6i9xhnYbzT
```

```
ejXSTomdRaxeY3WgwldqwLw3WY1UKvn3nCIDRqcPKgxy+oB+Nv5fZVbLyi5CNvvP/+EOZ12XKMzDTWh0wlu
XLO4fdaspLzRIInnPqC6NucfVHq3FEMjd ec2-user@ip-172-31-30-147.ec2.internal
[ec2-user@ip-172-31-30-147 EPAM-project]$ git remote set-url origin
git@github.com:shilpiharnal/EPAM-project.git
```

<copy above key>

Git-hub -> settings -> SSH and GPG Key -> Add SSH key -> paste and save  
Create remote origin with SSH link of repo with following command:

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git remote set-url origin
git@github.com:shilpiharnal/EPAM-project.git
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ echo "Hello" > t2.txt
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ cat t2.txt
Hello
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ ls                               //Here t1.txt was already present in git repo
t1.txt t2.txt
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ 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)  
t2.txt

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

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git add .
```

```
EPAM-project]$ git add -a
```

OR

```
EPAM-project]$ git add f1.txt
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git commit -m "t2 commit"
```

```
[main 9aadb78] f2 commit
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 t2.txt
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git status
```

```
On branch main
```

```
Your branch is ahead of 'origin/main' by 1 commit.
```

```
(use "git push" to publish your local commits)
```

nothing to commit, working tree clean

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git push
```

```
The authenticity of host 'github.com (140.82.114.3)' can't be established.
```

```
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWelOtrVc98/R1BUFWu3/LiyKgUfQM.
```

```
ECDSA key fingerprint is MD5:7b:99:81:1e:4c:91:a5:0d:5a:2e:2e:80:13:3f:24:ca.
```

```
Are you sure you want to continue connecting (yes/no)? yes
```

```
Warning: Permanently added 'github.com,140.82.114.3' (ECDSA) to the list of known hosts.
```

```
Enumerating objects: 4, done.  
Counting objects: 100% (4/4), done.  
Delta compression using up to 2 threads  
Compressing objects: 100% (2/2), done.  
Writing objects: 100% (3/3), 267 bytes | 267.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
To github.com:shilpiharnal/EPAM-project.git  
7a5106e..9aadb78 main -> main
```

<Make some changes to file via git-hub and commit there. Use pull to update local repo>

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ 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 0), reused 0 (delta 0), pack-reused 0  
Unpacking objects: 100% (3/3), 666 bytes | 666.00 KiB/s, done.  
From github.com:shilpiharnal/EPAM-project  
9aadb78..1be4d2d main -> origin/main  
Updating 9aadb78..1be4d2d  
Fast-forward  
 t2.txt | 1 +  
1 file changed, 1 insertion(+)
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ cat t2.txt  
Hello  
new line
```

## Insert new branch in git-hub, Earlier branch was main

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git branch b1 //new branch created b1
```

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git status
```

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ ls
```

t1.txt t2.txt

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git remote
```

origin

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git checkout b1 //shifted to new branch b1
```

Switched to branch 'b1'

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git branch
```

\* b1

main

<Here, b1 is the branch currently in action>

```
[ec2-user@ip-172-31-30-147 EPAM-project]$ git status
```

On branch b1

nothing to commit, working tree clean

[ec2-user@ip-172-31-30-147 EPAM-project]\$