**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.

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<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/nBmwgcaCYNlOZI ec2-user@ip-172-31-30-147.ec2.internal

The key's randomart image is:

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

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|..++.+oBo |

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

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

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCevFMz3EkkJmrixW/X8o68IqFmHaIJ+o88+zXihFpDv1ijOi7OovAnj5v9TYWKW9hfpkeCHWSu0U/PbOnufxQQsm/O7Gq9ODX2xPj4qwoLK6sC2i5b6YACsG5Woy7zR9yJ5EUn/QkKDiAphomOFmdZ6I2xuLPZanx/4UO3BRiAewondryxxgRl4y2oRLSAMr0PaaSmnnFBfiw8rY2cQMZq/g6i9xhnYbzTejXSTomdRaxeY3WgwIdqwLw3WY1UKvn3nCIDRqcPKgxxy+oB+Nv5fZVbLyi5CNvvP/+EOZ12XKMzDTWh0wIuXLO4fdaspLzRInnPqC6NucfVHq3FEMjd 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:p2QAMXNIC1TJYWeIOttrVc98/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

To upload folder to git:

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

**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