**Perform Git Push and Git Pull:**

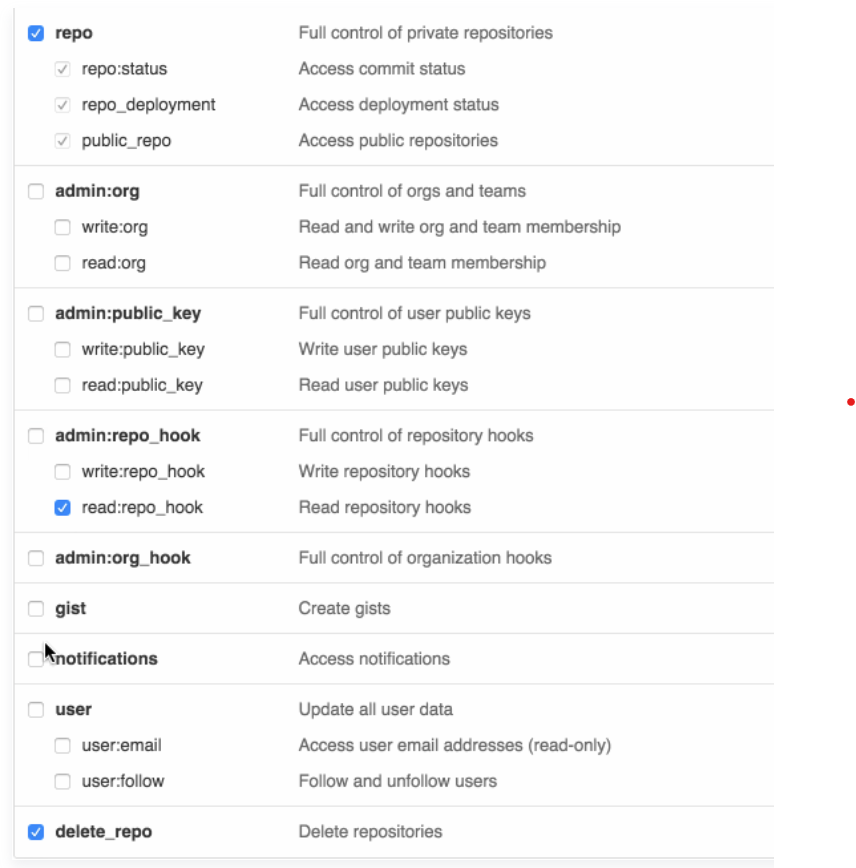
Procedure: To Perform Git Push & Git Pull first Generate Personal Access Token

To generate Personal Access Token (PAT) follow the Procedure:

Step 1: **Create Personal Access Token on GitHub**

From your GitHub account, go to Settings → Developer Settings → Personal Access Token → Generate New Token (Give your password) → Fill up the form → click Generate token → Copy the generated Token, it will be something like ghp\_sFhFsSHhTzMDreGRLjmks4Tzuzgthdvfsrta

Fill up the form

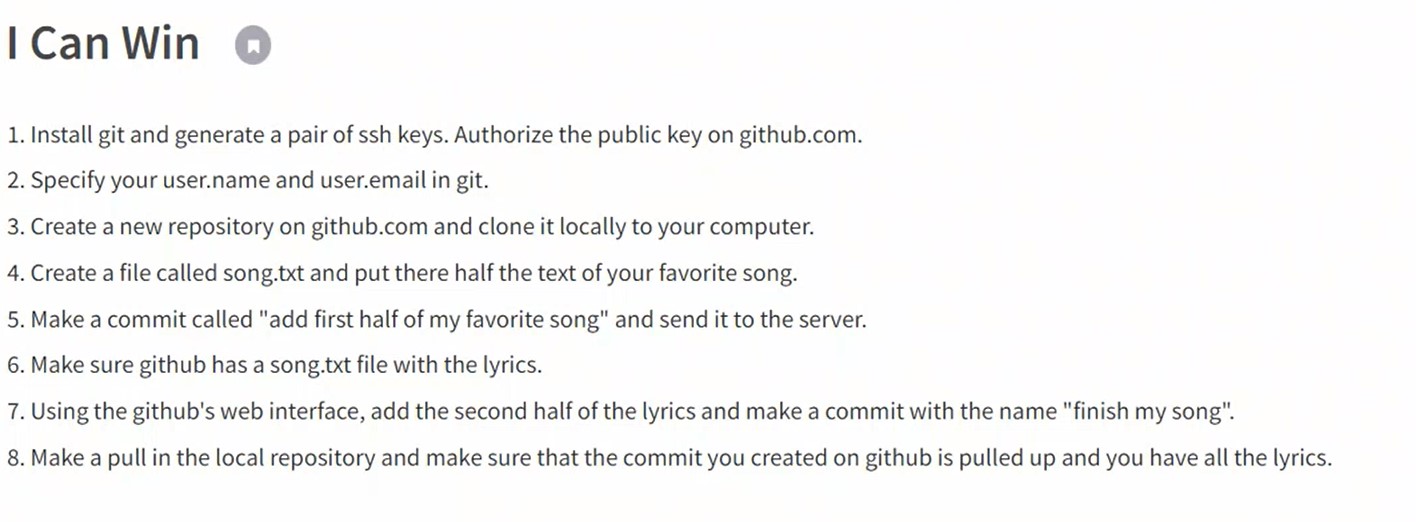


Step 2: Now follow the below method based on your machine:

For Windows OS ⤴

Go to Credential Manager from Control Panel → Windows Credentials → find git:https://github.com → Edit → On Password replace with your GitHub Personal Access Token → You are Done.

If you don’t find git:https://github.com → Click on Add a generic credential → Internet address will be git:https://github.com and you need to type in your username and password will be your GitHub Personal Access Token → Click Ok and you are done.



1. Install git and generate a pair of SSH keys. Authorize the public key on Github.com

Generation of SSH key:

Go to GITBASH ----SSH-KEYGEN----Press enter (3to 4times) ---------key will generate.

Now go to MY PC----C Drive -----Users ---- Desktop ---- Open .SSH folder and copy the public key with the help of notepad.

Next go to GITHUB ----- Settings -----SSH & GPG Keys ----- Click on new SSH Key.

Copy the entire copied Public key in the box shown and Generate key.

1. Specify git username and email.
2. Points [ 3 to 6] Create a new repository and clone it locally to your computer.

Git Clone <https://github.com/amalapurapusrinag/icanwin.git>

Cd icanwin

Touch song.txt (copy any half of the song and paste in song.txt file and save)

Git add song.txt

Git status (observe song.txt should be display in green color)

Git commit –m “add half of my song”

Git push

To perform Git Pull: [points 7 & 8]

Go to GitHub ---- icanwin repository ----- click on song.txt ------- edit ------ copy remaining song and Commit with Finish mysong -------- go to Git Bash again ------- git fetch ----- git pull.

You can see full song in your local computer.

GIT IGNORE:

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop

$ git init igno

Initialized empty Git repository in C:/Users/HOME/OneDrive/Desktop/igno/.git/

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop

$ cd igno

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ touch a b c csm ece

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

a

b

c

csm

ece

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

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ vi .gitignore

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git status

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

a

b

c

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

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git add .

warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git status

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: .gitignore

new file: a

new file: b

new file: c

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git commit -m " ignore ok"

[master (root-commit) df48cd9] ignore ok

4 files changed, 2 insertions(+)

create mode 100644 .gitignore

create mode 100644 a

create mode 100644 b

create mode 100644 c

**Git Branch:**

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

\* master

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch v1

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git checkout v1

Switched to branch 'v1'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git status

On branch v1

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ ls

a b c csm ece

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ cat >> a

vvit is superb college

[1]+ Stopped cat >> a

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git status

On branch v1

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git add .

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git status

On branch v1

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git commit -m " modified a in v1 branch"

On branch v1

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ cat a

vvit is superb college

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git add .

warning: in the working copy of 'a', LF will be replaced by CRLF the next time Git touches it

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git commit -m " modified a in v1 branch"

[v1 2691cf6] modified a in v1 branch

1 file changed, 1 insertion(+)

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git status

On branch v1

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ cat a

vvit is superb college

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v1)

$ git checkout master

Switched to branch 'master'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ cat a

**GIT MERGE;**

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git merge v1

Updating df48cd9..2691cf6

Fast-forward

a | 1 +

1 file changed, 1 insertion(+)

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ cat a

vvit is superb college

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

\* master

v1

**GIT BRANCH DELETE:**

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch -d v1

Deleted branch v1 (was 2691cf6).

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

\* master

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch v2 v3

fatal: not a valid object name: 'v3'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch v2

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch v3

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git checkout v2

Switched to branch 'v2'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v2)

$ touch aaa

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v2)

$ git add .

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v2)

$ git commit -m "file created"

[v2 f4f78c9] file created

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 aaa

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v2)

$ git status

On branch v2

nothing to commit, working tree clean

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v2)

$ git checkout v3

Switched to branch 'v3'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v3)

$ touch bbb

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v3)

$ git add .

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v3)

$ git commit -m "file created"

[v3 31e6c30] file created

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 bbb

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v3)

$ git branch --merged

master

\* v3

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (v3)

$ git checkout master

Switched to branch 'master'

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

\* master

v2

v3

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch --merged

\* master

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch --no-merged

v2

v3

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch -d v2

error: The branch 'v2' is not fully merged.

If you are sure you want to delete it, run 'git branch -D v2'.

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch -D v2

Deleted branch v2 (was f4f78c9).

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch -D v3

Deleted branch v3 (was 31e6c30).

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$ git branch

\* master

HOME@srinag-amalapurapu MINGW64 ~/OneDrive/Desktop/igno (master)

$

Practically doned in gitbash:

