

Git Hub Setup

19 May 2024 21:58

```
Microsoft Windows [Version 10.0.22621.3593]
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C:\Users\91636>git config --global user.name "Ganesh"
C:\Users\91636>git config --global user.email "ganeshtarsd@gmail.com"
C:\Users\91636>git config --global --list
user.name=Ganesh
user.email=ganeshtarsd@gmail.com

C:\Users\91636>
```

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git --version
git version 2.45.1.windows.1
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git status
fatal: not a git repository (or any of the parent directories): .git
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git init
Initialized empty Git repository in C:/Users/91636/Desktop/python/pythonProject/.git/
(.venv) PS C:\Users\91636\Desktop\python\pythonProject>
```

If we use git init it will create master branch
So git init -b main

```
Terminal Local × +
(use "git add <file>..." to include in what will be committed)
.idea/
Hello world.py

nothing added to commit but untracked files present (use "git add" to track)
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git status
fatal: not a git repository (or any of the parent directories): .git
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git init -b main
Initialized empty Git repository in C:/Users/91636/Desktop/python/pythonProject/.git/
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git status
On branch main
```

Git add file_name
Git commit -m "add message"

-If we modify the file in the time again we need to add the file

Git add file_name
Git commit -m "add comments"

Or

Git commit -a -m "add comments"

--Difference
Git diff
git diff --staged

Git add .
It will add all files to staging area

Remove file first from git and next local repository

Git rm --cached file_name

Username:
gpubg2503@gmail.com

Password:
Gani@2000@Gani

Username:

ganesh636157

Remote Repository:

<https://github.com/ganesh636157/>

```
C:\Users\91636>ssh-keygen -o
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\91636/.ssh/id_rsa):
Created directory 'C:\Users\91636/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\91636/.ssh/id_rsa
Your public key has been saved in C:\Users\91636/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:92/tRIFR+HlaupjFehgX7G8mnMFcHpwsK5epzVz15R4 91636@PureBook-S14
The key's randomart image is:
+---[RSA 3072]---+
|          .o. |
|          .o |
|          o+o |
|          .oBB |
| S . ==OB |
| . o.=@E+ |
|  OX.Bo |
| .==B.* |
| o.=. |
+---[SHA256]---+
C:\Users\91636>
```

Key..

```
C:\Users\91636>cd .ssh
C:\Users\91636\.ssh>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\91636\.ssh>dir
 Volume in drive C is Local Disk
 Volume Serial Number is 4C73-0E49

 Directory of C:\Users\91636\.ssh

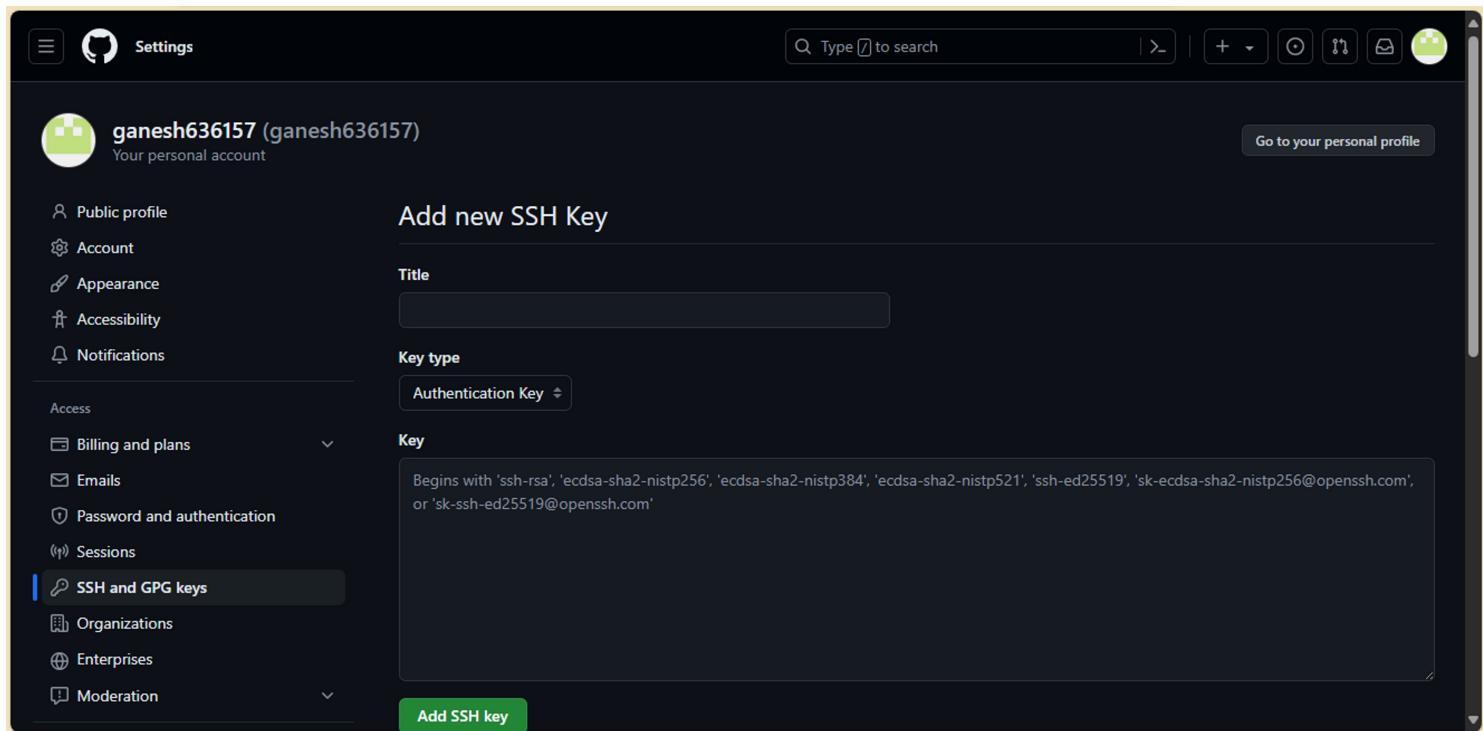
19-05-2024 23:29    <DIR>          .
19-05-2024 23:29    <DIR>          ..
19-05-2024 23:29          2,602 id_rsa
19-05-2024 23:29          573 id_rsa.pub
          2 File(s)   3,175 bytes
          2 Dir(s)  466,364,710,912 bytes free

C:\Users\91636\.ssh>cat id_rsa.pub
'cat' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\91636\.ssh>type id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAABgQCtRS9bJc9TJ00qwz667CE+WLQunPqSS5UOY5xr+yf3wxWzkpFYMMtdMuc2I2z+z1mJnaTFhF047a/2Gsf8/iukRBcaLHcgRzUsH+Qg+eqZifwLw
teRM/cmWYB9+Y1fPKEFg2Xx1ElAJh1l50xmdUPpAMcRuMDMtub1l44WF1kLk4Yh8vqlPw2Wk14b4pkLcsZbhR7d9Q8EKq60Sj+/HRb77D3yA2Rovu3L6AodVAk8fD11SfQ0/DtqVtpnGFJEHk8tId
36Sax/BChbAKaa7YheuFqDUGOFBhEW0XL0erVsQEf+fcSic5SMYFT1mcZUKH+am5a9wMtgePE0t4vD0cp31Qa8Ur2UcjQXSIVwZalTcv7u5eRnrXu7XRsa5pRqlVv8ySw+6b26h8KifC/AargLf
FrtKZ64/Gwa+1HqE96oc9TCzIkfKZu3yqja9M92QINbbDE0f5ymi4fAvfx4TVDLAWYjMq8j3JACCOYvS1rEmi4gToLjRp0jo7/v9aPpa3w0= 91636@PureBook-S14

C:\Users\91636\.ssh>
```

Go github--settings:



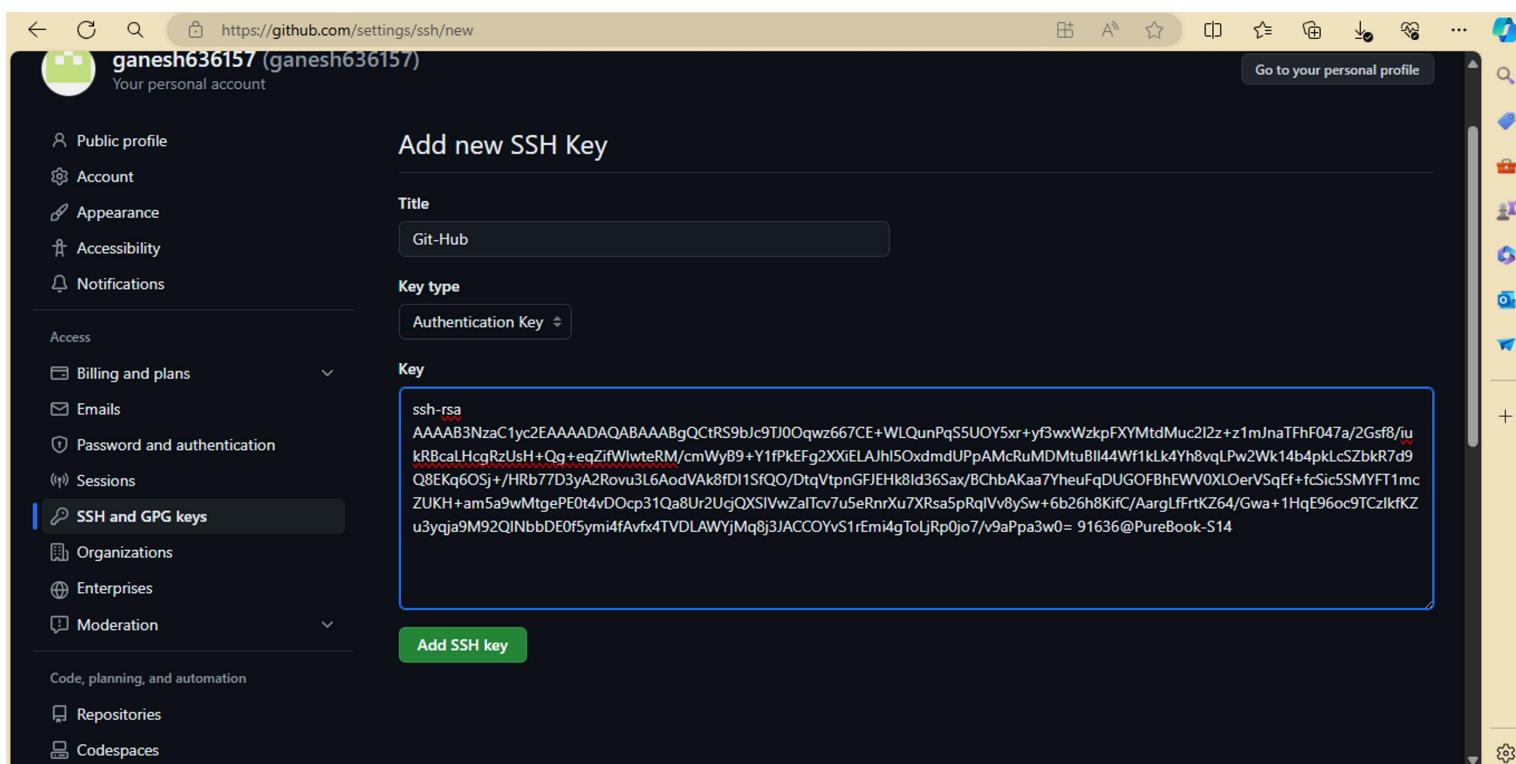
The screenshot shows the GitHub Settings interface for a user named 'ganesh636157'. The left sidebar is a navigation menu with the following items:

- Public profile
- Account
- Appearance
- Accessibility
- Notifications
- Access
 - Billing and plans
 - Emails
 - Password and authentication
 - Sessions
 - SSH and GPG keys** (selected)
 - Organizations
 - Enterprises
 - Moderation

The main content area is titled 'Add new SSH Key'. It has fields for 'Title' (empty) and 'Key type' (set to 'Authentication Key'). Below these is a 'Key' text area with the following placeholder text:

Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', or 'sk-ssh-ed25519@openssh.com'

At the bottom is a green 'Add SSH key' button.



The screenshot shows the same GitHub Settings interface as the first one, but with the 'Key' text area filled with a long SSH key. The key starts with 'ssh-rsa' and is a very long string of characters. The rest of the interface is identical to the first screenshot.

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](#) [SSH](#) [git@github.com:ganesh636157/Programs.git](#)

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# Programs" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:ganesh636157/Programs.git
git push -u origin main
```

-u --up stream

```
nothing added to commit but untracked files present (use "git add" to track)
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git remote add origin git@github.com:ganesh636157/Programs.git
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git push -u origin main
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (17/17), 1.36 KiB | 115.00 KiB/s, done.
Total 17 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:ganesh636157/Programs.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> █
```

Git push main origin

```
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git tag
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git tag -a version -m "1st release"
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git status
On branch main
Your branch is up to date with 'origin/main'.
Services Alt+8 :
  (use "git add <file>..." to include in what will be committed)
    .idea/
  nothing added to commit but untracked files present (use "git add" to track)
  (.venv) PS C:\Users\91636\Desktop\python\pythonProject> █
```

Git show
Git tag

```
... Everything up-to-date
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git commit -a -m "tagging"
[main 38164c1] tagging
 1 file changed, 1 insertion(+), 1 deletion(-)
(.venv) PS C:\Users\91636\Desktop\python\pythonProject> git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 272 bytes | 34.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ganesh636157/Programs.git
  f4363fc..38164c1 main -> main
⊕ (.venv) PS C:\Users\91636\Desktop\python\pythonProject> git tag
version
⊖ (.venv) PS C:\Users\91636\Desktop\python\pythonProject> git push origin version
Enumerating objects: 1, done.
⊕ Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 161 bytes | 80.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
ⓘ To github.com:ganesh636157/Programs.git
  * [new tag]      version -> version
♀ (.venv) PS C:\Users\91636\Desktop\python\pythonProject>
```

Branch creation

```
⊖ (.venv) PS C:\Users\91636\Desktop\python\pythonProject> git branch
* main
⊕ (.venv) PS C:\Users\91636\Desktop\python\pythonProject> git checkout -b feature1
Switched to a new branch 'feature1'
⊖ (.venv) PS C:\Users\91636\Desktop\python\pythonProject> git branch
① * feature1
  main
♀ (.venv) PS C:\Users\91636\Desktop\python\pythonProject>
```

Git switch main
Pushing:
git push origin feature1