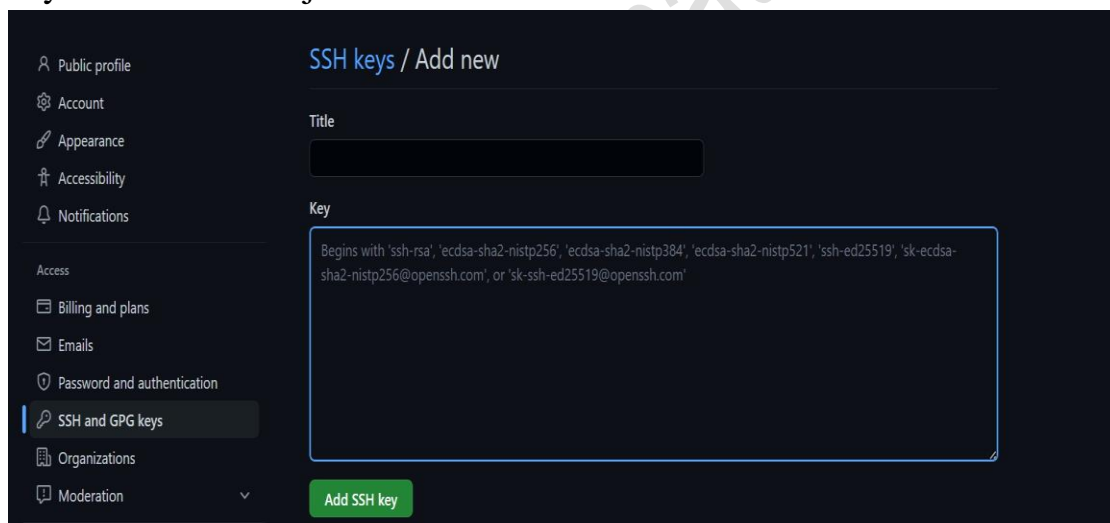




Git And GitHub Session No.07

Summary 27-02-2022

- We can authenticate our git with GitHub via two ways, HTTPS and SSH, HTTPS uses a “user name” and “password” for authentication and SSH uses a private key and public key to authenticate
- **#ssh-keygen.exe** - It will create a public key and private key combinations using RSA algorithm for us, Now we can go to GitHub->setting->” SSH And GPG keys”, and there we can paste our public key which we have just created



- **#ssh -T git@github.com** -> Now it will authenticate our git with GitHub successfully.
- **#git remote add origin**
<https://github.com/sudhanshuunilever/testing.git> -> It will add my GitHub repository with my local git repository.
- **#git remote -v** -> We can see now, that our local repo knows where we have our centralized repository
- **#git push --set-upstream origin | master** -> It will push the changes to the GitHub repository in the master branch

```
$ git remote add origin https://github.com/sudhanshuunilever/testing.git
AzureAD+SudhanshuPandey@DESKTOP-ONU1RKK MINGW64 /c/my_projects/gitsummary2 (master)
$ git remote -v
origin https://github.com/sudhanshuunilever/testing.git (fetch)
origin https://github.com/sudhanshuunilever/testing.git (push)
AzureAD+SudhanshuPandey@DESKTOP-ONU1RKK MINGW64 /c/my_projects/gitsummary2 (master)
$ git remote show origin
* remote origin
  Fetch URL: https://github.com/sudhanshuunilever/testing.git
  Push URL: https://github.com/sudhanshuunilever/testing.git
  HEAD branch: main
  Remote branch:
    main new (next fetch will store in remotes/origin)
AzureAD+SudhanshuPandey@DESKTOP-ONU1RKK MINGW64 /c/my_projects/gitsummary2 (master)
$ git push --set-upstream origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 494 bytes | 494.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/sudhanshuunilever/testing/pull/new/master
remote:
To https://github.com/sudhanshuunilever/testing.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

- **#git remote show origin ->**

```
g MINGW64:/c/my_projects/gitsummary2
g
AzureAD+SudhanshuPandey@DESKTOP-ONU1RKK MINGW64 /c/my_projects/gitsummary2 (master)
$ git remote show origin
* remote origin
  Fetch URL: https://github.com/sudhanshuunilever/testing.git
  Push URL: https://github.com/sudhanshuunilever/testing.git
  HEAD branch: main
  Remote branches:
    main new (next fetch will store in remotes/origin)
    master tracked
  Local branch configured for 'git pull':
    master merges with remote master
  Local ref configured for 'git push':
    master pushes to master (up to date)
```

- **#git status ->** It will show the status of our git repo, and will also tell us if we are ahead of the remote repo. or we are behind on the remote repo, or we are up to date with the remote repository.

```
AzureAD+SudhanshuPandey@DESKTOP-ONU1RKK MINGW64 /c/my_projects/gitsummary2 (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
```