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OBSERVATION

SSH Connection Hands on

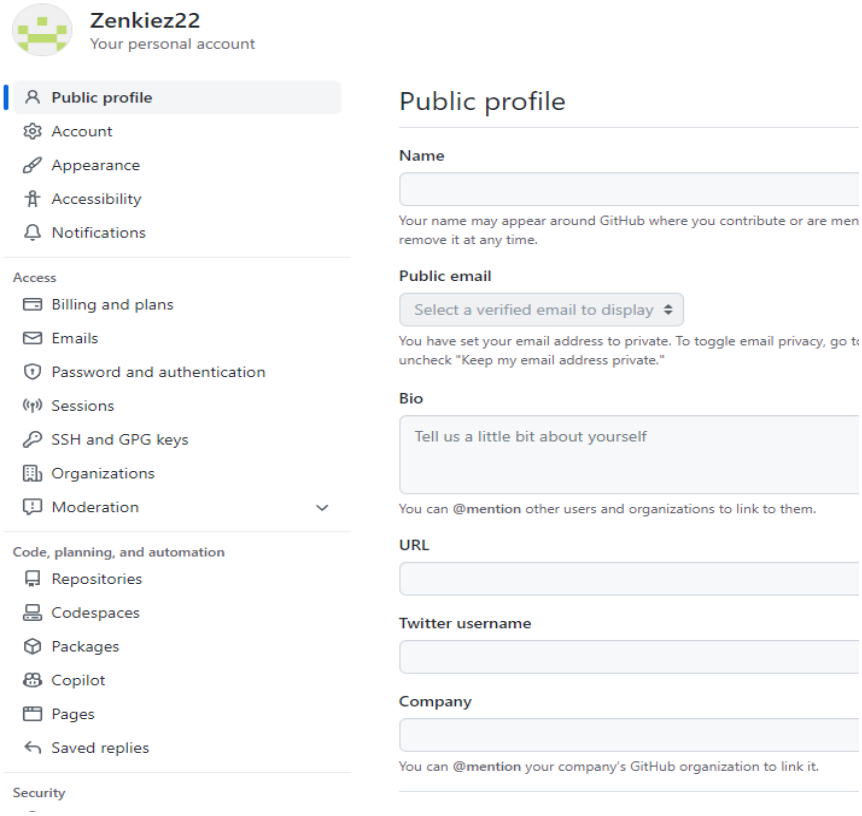
1. Open GitBash Terminal and choose the directory you want to save and it will generate public and private keys.

```
ADMIN@DESKTOP-RMPSFLJ MINGW64 ~
$ pwd
/c/Users/ADMIN
```

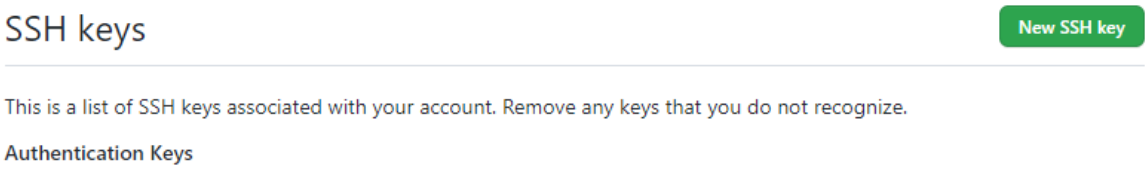
2. Use the command "**ssh-keygen**" to generate the public and private keys.

```
ADMIN@DESKTOP-RMPSFLJ MINGW64 ~
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/ADMIN/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/ADMIN/.ssh/id_rsa
Your public key has been saved in /c/Users/ADMIN/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:KqZwtOIbKuv7OuyJkA5uMBdbZaiPx4JNFpcvY64aswI ADMIN@DESKTOP-RMPSFLJ
The key's randomart image is:
+---[RSA 3072]----+
|     o           |
|  . + o          |
|   + +           |
|  = = .          |
| = X o  S        |
|E.O =  .         |
|@=.*+ .          |
|XX=+ o           |
|@@*o.            |
+----[SHA256]-----+
```

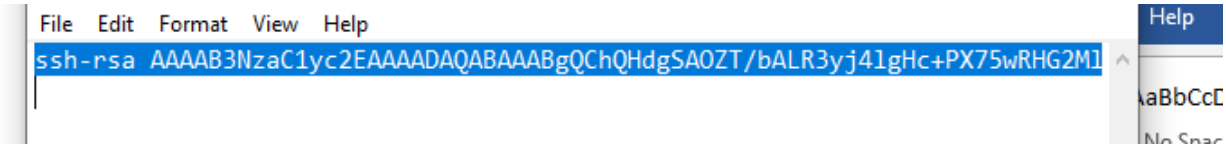
3. Go to your Github account Settings click **SSH and GPG keys**



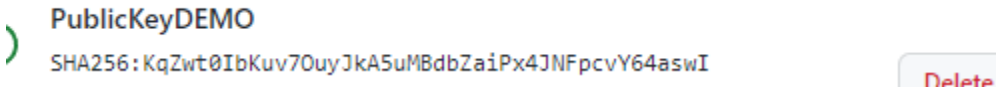
4. New SSH



5. Open your public key file to any text editor. Like notepad or Visual Studio, **Ctrl + A** or highlight all Copy

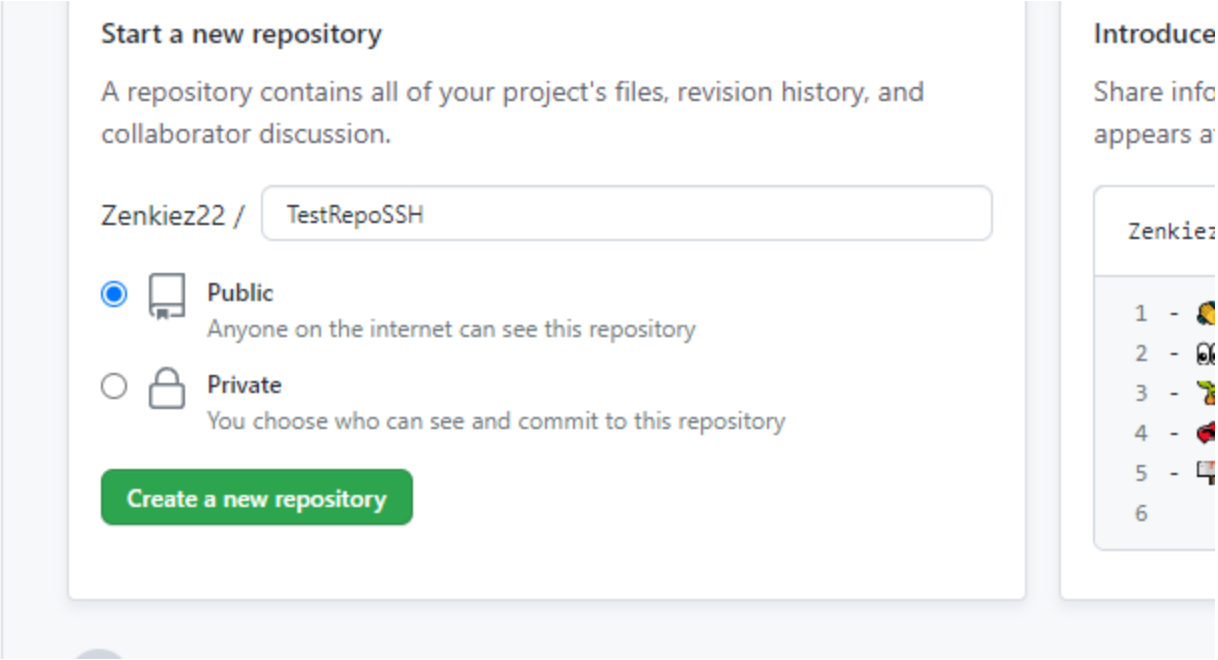


6. Name your **SSH Connection**. Paste the Public Key file in to the key text area.

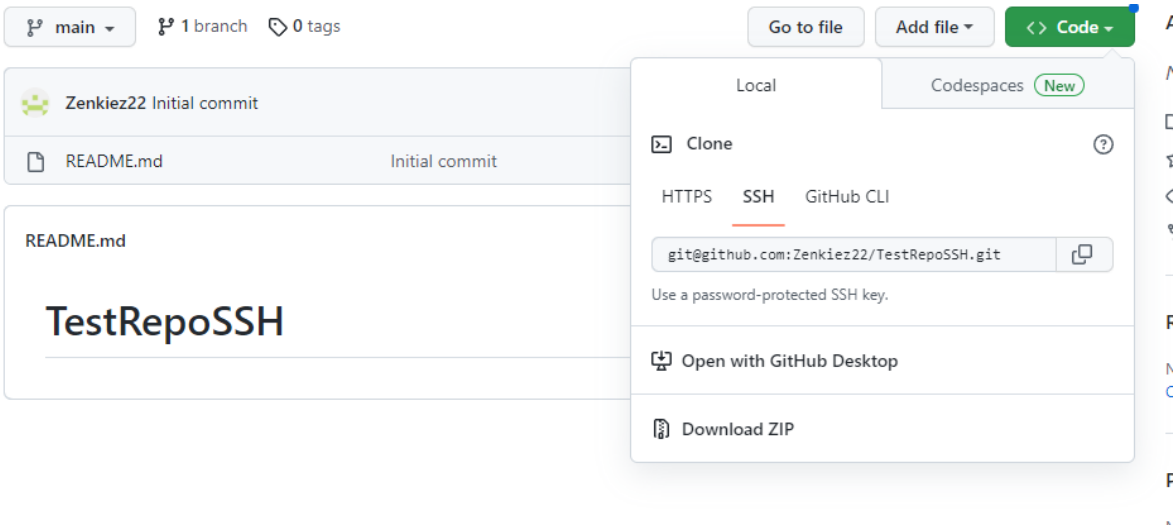


7. Click Add **SSH Key.**
8. Add New Repository. **Click New**

9. Name your new Repository then click **Create Repository**



10. In your created Repository click Code button then click SSH, or copy the link or click the copy button. We need this to check if the **SSH connection was successful.**



11. Go back to your desktop. Open a New **Gitbash Terminal.**
12. Enable SSH connection by using "**eval `ssh-agent`** " command.

```
ADMIN@DESKTOP-RMPSFLJ MINGW64 ~
$ eval `ssh-agent`
Agent pid 2451
```

13. Then we can add now the SSH name using " **ssh-add** ".

```
ADMIN@DESKTOP-RMPSFLJ MINGW64 ~
$ ssh-add
Identity added: /c/Users/ADMIN/.ssh/id_rsa (ADMIN@DESKTOP-RMPSFLJ)
```

14. After that you would see that the SSH identity is added , we already established **SSH Connection**.

15. To check the connection is working we can clone the repository by using " **git clone** [ssh link] which is the link we copied as per step no. 10.

```
ADMIN@DESKTOP-RMPSFLJ MINGW64 ~
$ git clone git@github.com:Zenkiez22/TestRepoSSH.git
Cloning into 'TestRepoSSH'...
The authenticity of host 'github.com (20.205.243.166)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```