

Hands On No. 4 (SSH) – Observation Report

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Dec. 7, 2022

1. First thing we did is go to root directory and generate keys.

```
MINGW64:/c/Users/Admin  
  
Admin@DESKTOP-RAN3A4S MINGW64 ~  
$ ssh-keygen
```

After this command, we are prompted to input a name to identify the keys, then press enter to create the keys.

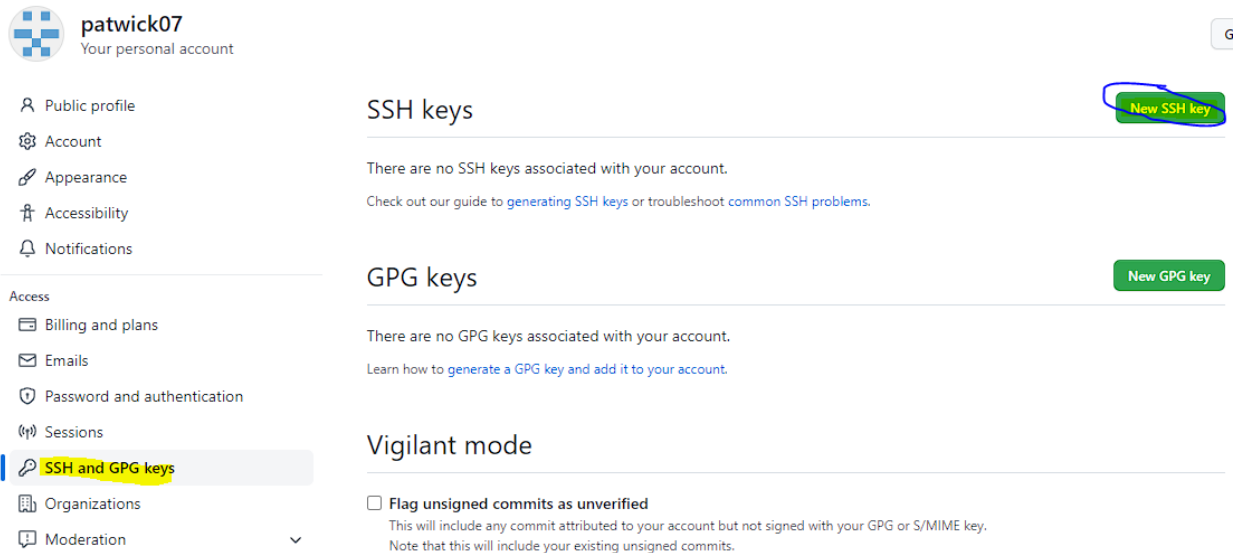
```
MINGW64:/c/Users/Admin  
  
Admin@DESKTOP-RAN3A4S MINGW64 ~  
$ ssh-keygen  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/Admin/.ssh/id_rsa): patrick  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in patrick  
Your public key has been saved in patrick.pub  
The key fingerprint is:  
SHA256:sJ9Ym/4b1bKt6nHzwR1M2lIsvv/KTEPrji6fme//3y4 Admin@DESKTOP-RAN3A4S  
The key's randomart image is:  
+----[RSA 3072]-----+  
|  
| . . . +  
| o . B .  
| . S = B  
| + + X +  
| . * * O  
| ..o / oE .  
| .+*=@+o+*  
+----[SHA256]-----+
```

In this part of the hands on, I noticed that there 2 keys that was generated.

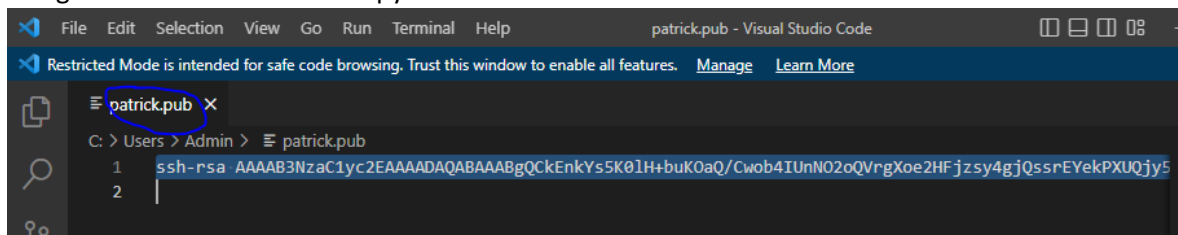
> This PC > Local Disk (C:) > Users > Admin

Name	Date modified
.gitconfig	12/7/2022 3:11 PM
.viminfo	12/7/2022 10:25 AM
NTUSER.DAT	12/7/2022 4:55 AM
patrick	12/7/2022 3:43 PM
patrick.pub	12/7/2022 3:43 PM

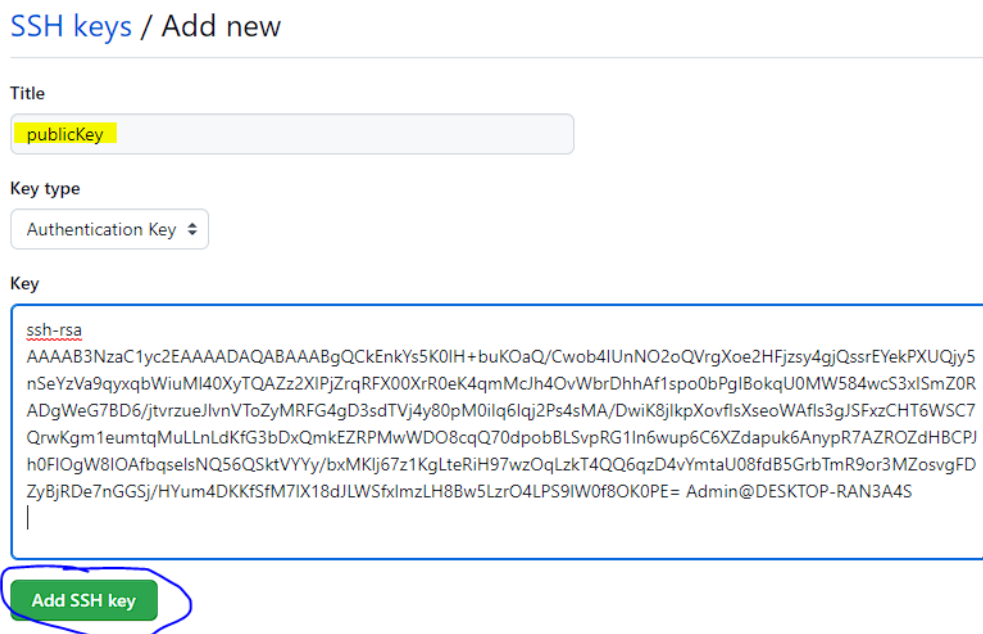
- Next is we go to our GitHub account settings and click on the “SSH and GPG keys” and click on New SSH key



- Next is we go to our windows explorer and open the generated key with extension name .pub using visual studio code and copy the content of it.



- Supply title for the key and paste it in the key section of the GitHub, then click “Add SSH key”.




Now, the key is created.

SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication Keys



publicKey
SHA256:sJ9Ym/4b1bKt6nHwR1M21Isvv/KTEPrji6fme//3y4
Added on Dec 7, 2022
Never used — Read/write

Delete


5. Create a repository in GitHub. Tick “Add a Readme file”

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository el [Import a repository](#).



Owner *

Repository name *

 patwick07 ▾ / testSSHDemo00 ✓

Great repository names are short and memorable. Need inspiration? How about [reimagined-meme?](#)

Description (optional)

- ☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.
- ☐  **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ **Add a README file**

This is where you can write a long description for your project. [Learn more](#).

☒ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

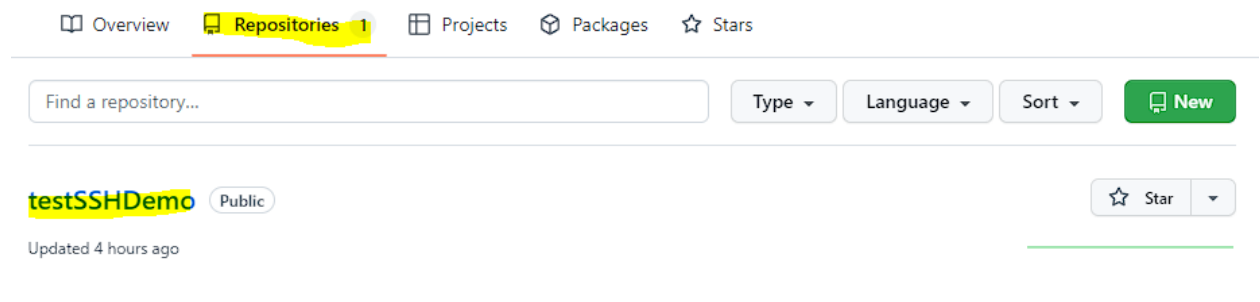
License: None ▾

This will set  main as the default branch. Change the default name in your [settings](#).

 You are creating a public repository in your personal account.

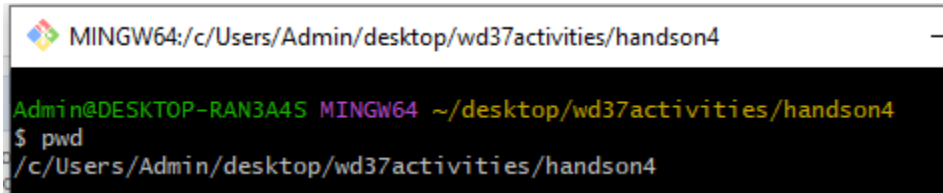
Create repository

The repository is created.



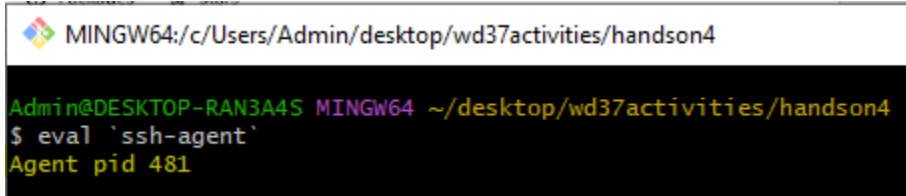
The screenshot shows the GitHub interface for a newly created repository named 'testSSHDemo'. The repository is public and was updated 4 hours ago. The navigation bar includes 'Overview', 'Repositories' (highlighted with a yellow box and a count of 1), 'Projects', 'Packages', and 'Stars'. Below the navigation bar is a search bar with the placeholder 'Find a repository...', followed by filters for 'Type', 'Language', and 'Sort', and a 'New' button. The repository name 'testSSHDemo' is highlighted with a yellow box, and the 'Public' label is visible. A 'Star' button is also present.

6. Go to desired directory where you want to clone the repository using the GitBash terminal.



```
MINGW64:/c:/Users/Admin/desktop/wd37activities/handson4
Admin@DESKTOP-RAN3A4S MINGW64 ~/desktop/wd37activities/handson4
$ pwd
/c:/Users/Admin/desktop/wd37activities/handson4
```

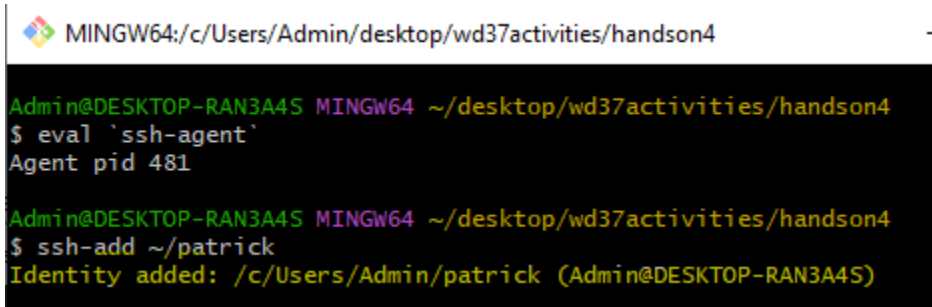
7. Enable SSH connection using "eval `ssh-agent`" command.



```
MINGW64:/c/Users/Admin/desktop/wd37activities/handson4
Admin@DESKTOP-RAN3A4S MINGW64 ~/desktop/wd37activities/handson4
$ eval `ssh-agent`
Agent pid 481
```

I noticed here that a pid was created.

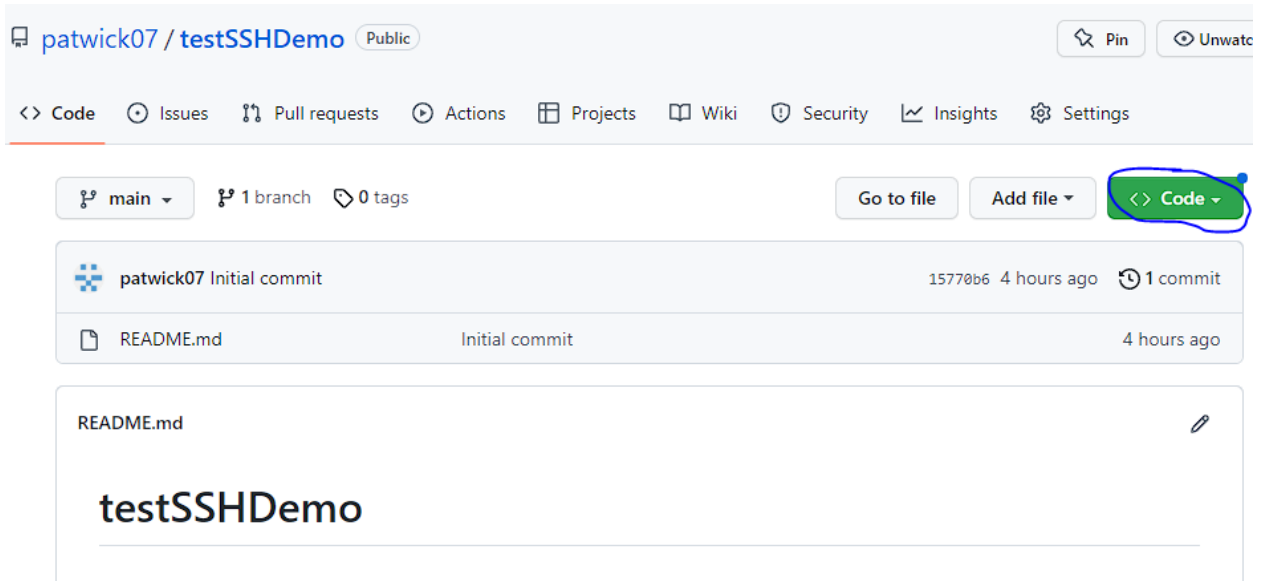
8. Then we can add now the SSH name using "ssh-add ~/.sshName" in my case "ssh-add ~/.patrick"

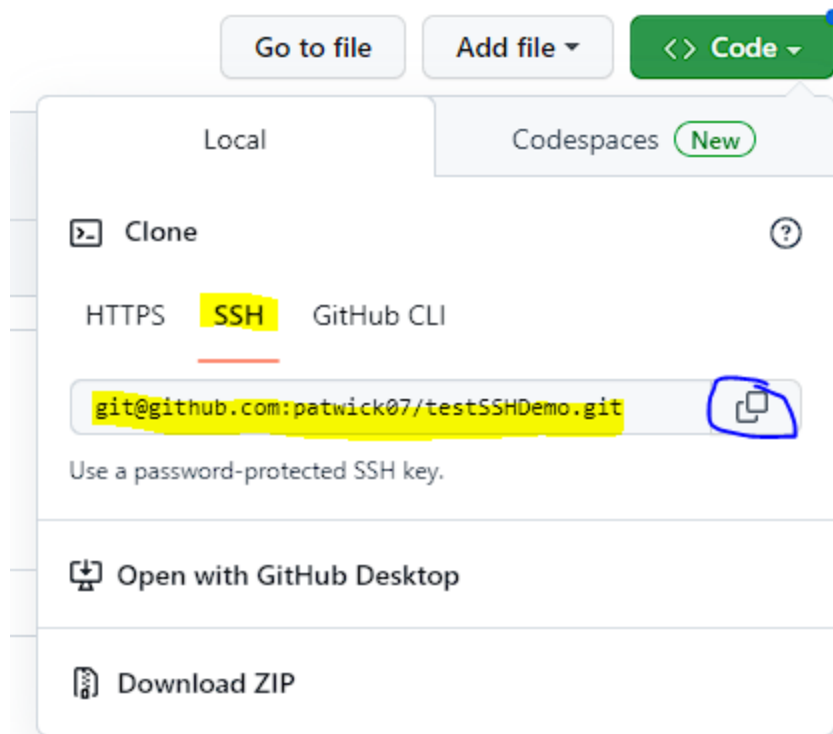


```
MINGW64:/c/Users/Admin/desktop/wd37activities/handson4
Admin@DESKTOP-RAN3A4S MINGW64 ~/desktop/wd37activities/handson4
$ eval `ssh-agent`
Agent pid 481
$ ssh-add ~/.patrick
Identity added: /c/Users/Admin/patrick (Admin@DESKTOP-RAN3A4S)
```

After that you would see that the SSH identity is added therefore we already established SSH connection.

9. To check the connection is working we can clone the repository by using "git clone [ssh link]" command, but first in the created Repository click Code button then click SSH, copy the link or click the copy button then paste it in the terminal.





```
MINGW64:/c/Users/Admin/desktop/wd37activities/handson4
Admin@DESKTOP-RAN3A4S MINGW64 ~/desktop/wd37activities/handson4
$ git clone git@github.com:patwick07/testSSHDemo.git
Cloning into 'testSSHDemo'...
The authenticity of host 'github.com (20.205.243.166)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/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.
```

As a result, a copy of the repository was created in the current directory.

WD37Activities > HandsOn4

Name	Date modified
testSSHDemo	12/7/2022 4:22 PM
Hands On No 4 SSH	12/7/2022 4:18 PM