

SSH Connection Hands On and Observation

December 7, 2022

1. I opened GitBash terminal and chose a directory to save my keys and repository.

```
MINGW64:/c/repo

PotatoPC@LouFaiFai MINGW64 ~
$ pwd
/c/Users/PotatoPC

PotatoPC@LouFaiFai MINGW64 ~
$ cd /c

PotatoPC@LouFaiFai MINGW64 /c
$ mkdir repo

PotatoPC@LouFaiFai MINGW64 /c
$ cd repo

PotatoPC@LouFaiFai MINGW64 /c/repo
$
```

2. Used “ssh-keygen” command to generate both public and private key, and chose “trztnKey” as the name of the keys.

```
MINGW64:/c/repo

PotatoPC@LouFaiFai MINGW64 /c/repo
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/PotatoPC/.ssh/id_rsa): trztnKey
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in trztnKey
Your public key has been saved in trztnKey.pub
The key fingerprint is:
SHA256:u1mNcZYIHGKkhKie+9pUX6AXoP68/t0mjEn9ovLz8lw PotatoPC@LouFaiFai
The key's randomart image is:
+---[RSA 3072]-----+
| . . .o+ . |
| . . .o.o . |
| . . . oo |
| . . . o. . . |
| . . o .S.o + |
| o + + . . * |
| . . + ooEo . |
| .o..o*oo* |
| .oo+BBBB. |
+-----[SHA256]-----+

PotatoPC@LouFaiFai MINGW64 /c/repo
$
```

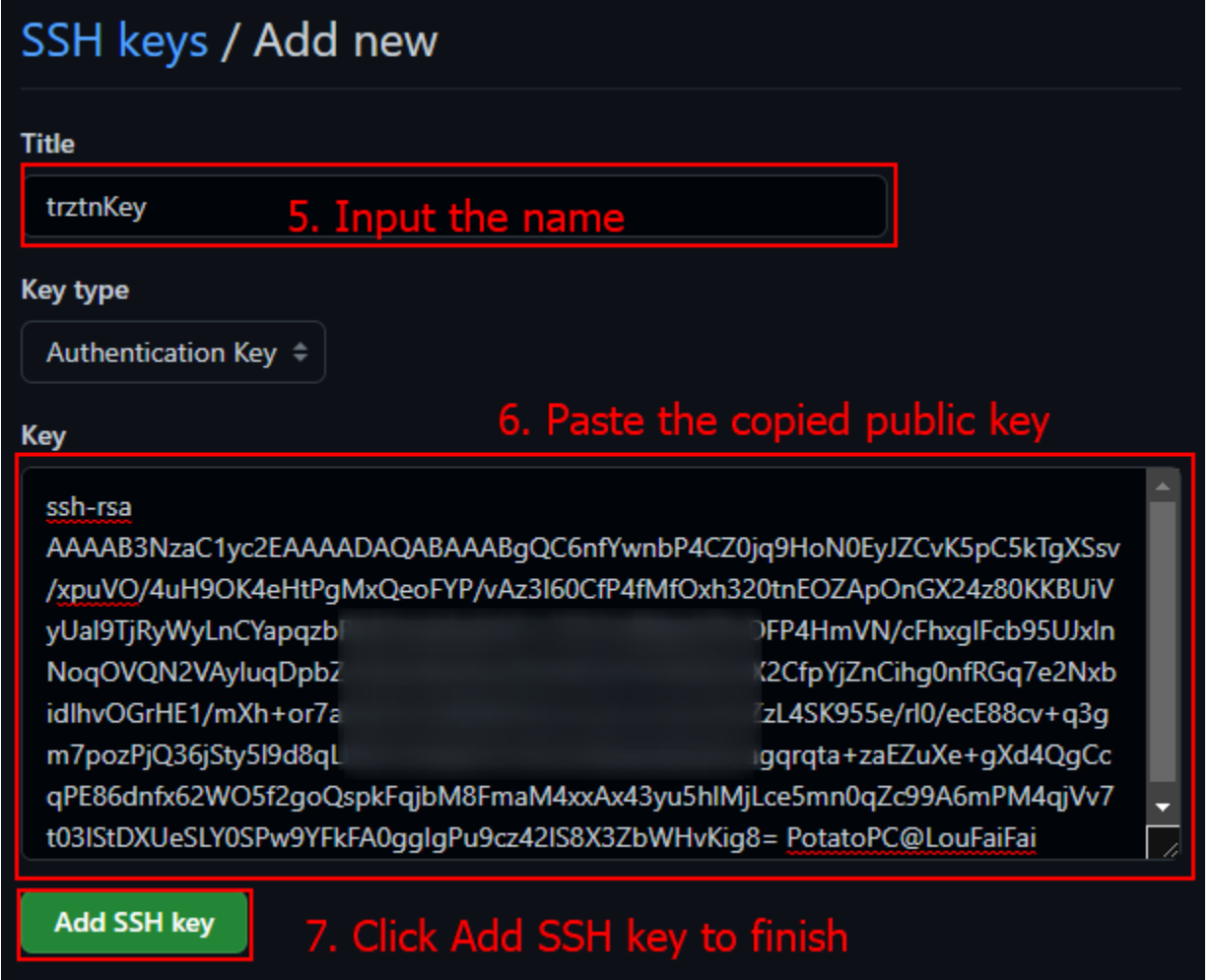
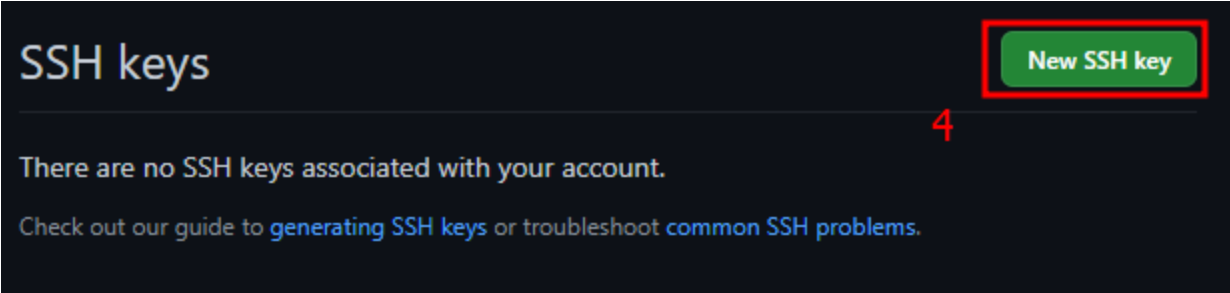
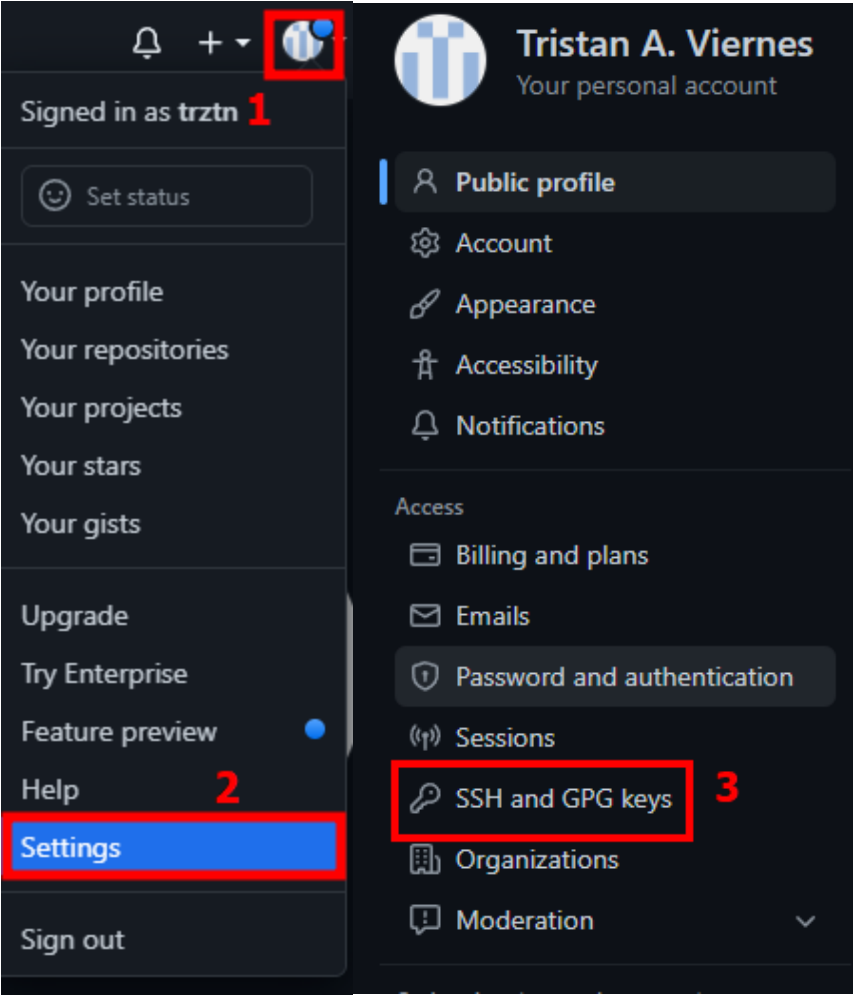
3. I opened the public key with notepad and copied the contents.

```
trztnKey.pub - Notepad

File Edit Format View Help

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQgQC6nfYwnbP4CZ0jq9HoN0EyJZCvK5pC5kTgXSsv/xpuV0/4uH
90K4eHtPgMxQeoFYP/vAz3T60CFP4fMf0xb320tnE07ApOnGX24z80KKBUiVyUa19TjRyWyLnCYapq
zbRbKYyxk4u6rh0+TXX7LnNoqOVQN2VAy1uqDpbZ/RKeHB
dz9CX6PA81tUKTAXXWfrGrHE1/mXh
+or7aXdDxTcX0kRNY65o8cv
+q3gm7pozPjQ36jSty519d8qLI8GC2NqdzG1vkZ/m8eqvApQzh/agqrqta+zaEZuXe
+gXd4QgCcqPE86dnfx62W05f2goQspkFqjbM8FmaM4xxAx43yu5h1MjLce5mn0qZc99A6mPM4qjVv7
t031StDXUeSLY0SPw9YFkFA0ggIgpU9cz421S8X3ZbWHvKig8= PotatoPC@LouFaiFai
|
```

4. I then go to github.com and registered my key.



5. After confirming that the key is added, I created a repository.

Search or jump to...

Top Repositories

1

New

Find a repository...

alfrenJames/WD37FullStack

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Create a new repository

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

Owner *

Repository name *

trztn

/

testDemoSSH

✓

2. Input desired repository name.

Great repository names are short and memorable. Need inspiration? How about [cautious-octo-barnacle](#)?

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

3. Tick the Add a README file.

☒ 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](#).

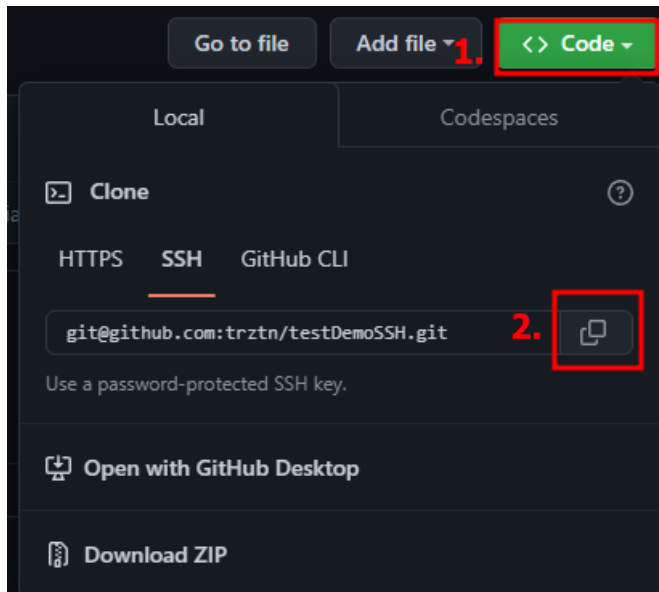
ⓘ

You are creating a public repository in your personal account.

Create repository

4. Click Create repository to finish

6. In my created repository, I clicked the Code button and copied the SSH key.



7. Got back to my still opened GitBash terminal and enable SSH connection by using “eval `ssh-agent`” command, added my SSH Identity by executing “ssh-add <keyname>”

```
PotatoPC@LouFaiFai MINGW64 /c/repo
$ eval `ssh-agent`
Agent pid 1668

PotatoPC@LouFaiFai MINGW64 /c/repo
$ ssh-add trztnKey
Enter passphrase for trztnKey:
Identity added: trztnKey (PotatoPC@LouFaiFai)

PotatoPC@LouFaiFai MINGW64 /c/repo
$
```

8. After the successful addition of SSH Identity, I now proceed to clone the repository by using the “git clone <SSH link>” with the SSH link copied on step 6.

```
PotatoPC@LouFaiFai MINGW64 /c/repo
$ git clone git@github.com:trztn/testDemoSSH.git
Cloning into 'testDemoSSH'...
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.
```

9. I used ls command to verify if the cloning really succeeded.

```
PotatoPC@LouFaiFai MINGW64 /c/repo
$ ls
testDemoSSH/ trztnKey trztnKey.pub

PotatoPC@LouFaiFai MINGW64 /c/repo
$
```

Tools Used: GitBash terminal, Microsoft Office Word, Notepad and MS Edge.