

How to GIT

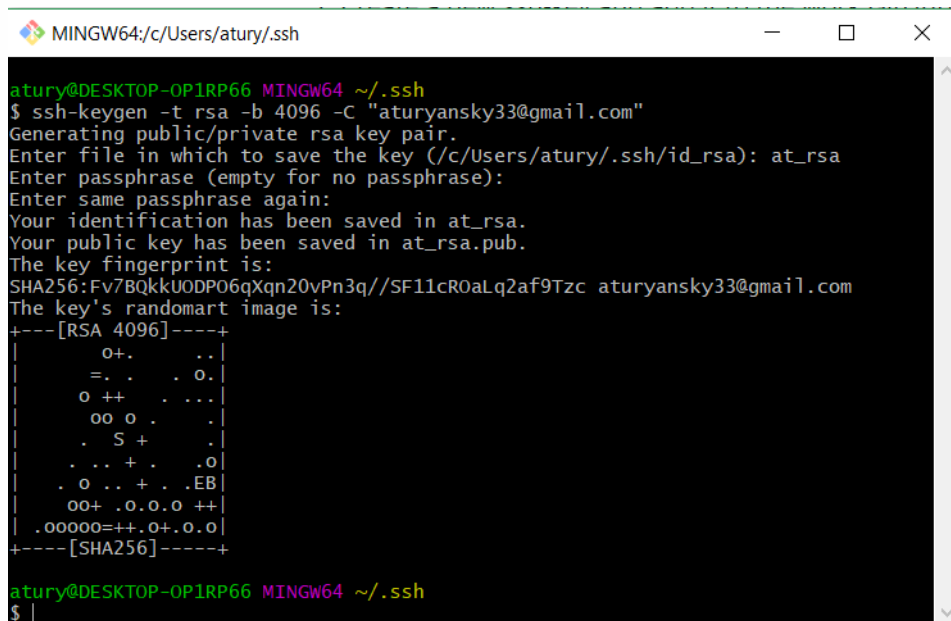
1. Open GitBash and create ~/.ssh folder

```
mkdir .ssh  
cd .ssh
```

2. Create a new ssh-key and add it to the work GitLab account

- Open GitBash and write next command

```
$ ssh-keygen -t rsa -b 4096 -C "my_work_email@my_company.com"
```



```
MINGW64:/c/Users/atury/.ssh  
atury@DESKTOP-OP1RP66 MINGW64 ~/.ssh  
$ ssh-keygen -t rsa -b 4096 -C "aturyansky33@gmail.com"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/atury/.ssh/id_rsa): at_rsa  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in at_rsa.  
Your public key has been saved in at_rsa.pub.  
The key fingerprint is:  
SHA256:Fv7BQkkUODP06qXqn20vPn3q//SF11cR0aLq2af9Tzc aturyansky33@gmail.com  
The key's randomart image is:  
+---[RSA 4096]---+  
|  o+.  .. |  
| =. . . 0. |  
| o ++ . ... |  
| oo o . . |  
| . S + . |  
| . . . + . .o |  
| . o .. + . .EB |  
| oo+ .o.o.o ++ |  
| .ooooo=++ .o.o.o |  
+---[SHA256]-----+  
atury@DESKTOP-OP1RP66 MINGW64 ~/.ssh  
$
```

3. To manage SSH options you can use an SSH config file. This file can be located in your home directory at ~/.ssh/config

- If the file does not exist you can create it and set the correct permissions.

```
touch config  
chmod 644 config
```

Modify the ssh config file (~/.ssh/config)

```
# Work GitLab account  
Host gitlab.com-<your_gitlab_login>  
HostName gitlab.com  
User git  
IdentityFile ~/.ssh/<name_of_file_with_private_key>
```

Note: You should keep all .ssh files in this folder.

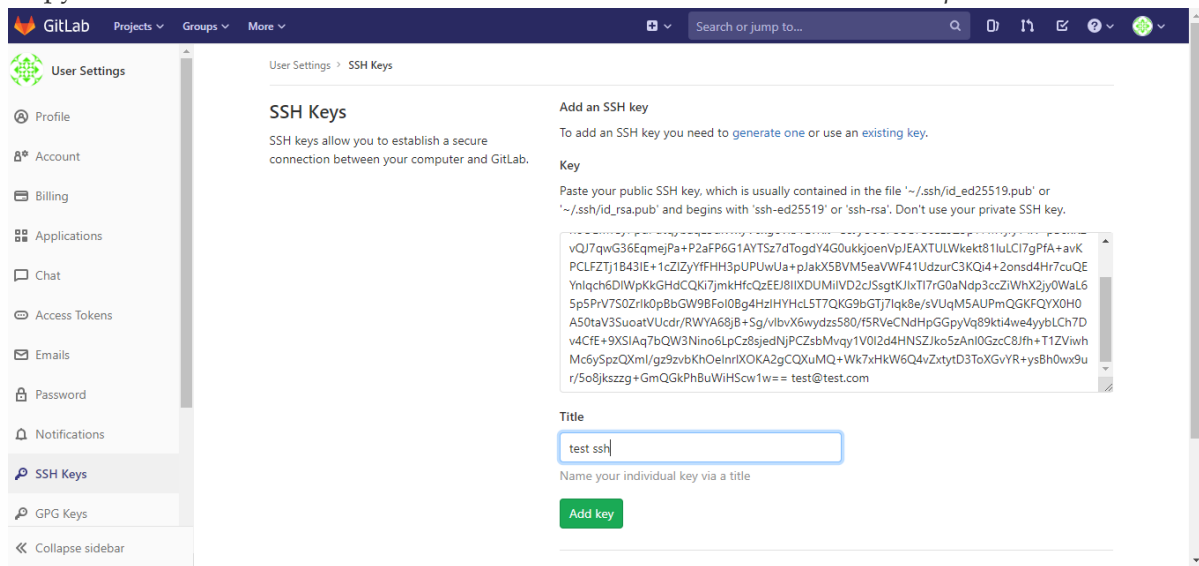
Example of my config file:

```
config - Notepad
File Edit Format View Help
# Host gitlab.com
Host gitlab.com-malsimushkka
HostName gitlab.com
User git
IdentityFile ~/.ssh/id_rsa
```

4. Add new SSH key on GitLab

- Open <https://gitlab.com/profile/keys>
- Click on **New SSH Key** button

- Copy all content from .pub file

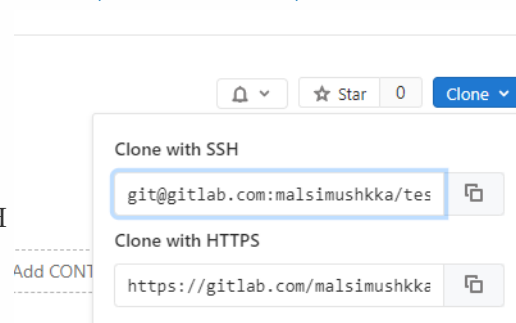


Note: make sure there are no extra lines, spaces after your code

5. Clone repository to local machine

- Open <https://gitlab.com/malsimushkka/testssh>

- Clone it with SSH



6. Clone repository in Projects folder

- Create new folder **Projects** and open it using GitBash
- Use Git Command with copied SSH from GitLab

```
git clone git@gitlab.com-<your_gitlab_login>malsimushkka/testssh.git
```

```

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop
$ git clone git@gitlab.com:malsimushkka:malsimushkka/testssh.git
Cloning into 'testssh'...
Enter passphrase for key '/c/Users/kesyk/.ssh/id_rsa':
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Receiving objects: 100% (3/3), done.

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop
$

```

Important: login after [git@gitlab.com](https://gitlab.com) must match to login that is specified at ssh config file.

6. Add new file to the remote repository

- Create new file and add it to the local folder

```

git add "test.txt"
git commit -m "test commit"
git push

```

```

MINGW64/c/Users/kesyk/Desktop/testssh

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop/testssh (master)
$ git add "test.txt"
fatal: pathspec 'test.txt' did not match any files

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop/testssh (master)
$ git add "test.txt"

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop/testssh (master)
$ git commit -m "test commit"
[master e8f677a] test commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop/testssh (master)
$ git push
Enter passphrase for key '/c/Users/kesyk/.ssh/id_rsa':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 243 bytes | 121.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0)
To gitlab.com-malsimushkka:malsimushkka/testssh.git
 a858098..e8f677a master -> master

kesyk@DESKTOP-CBQ14CR MINGW64 ~/Desktop/testssh (master)
$

```

7. Check that new file was added in remote repository