**SSH keypair setup for GitHub (or GitHub/GitLab/BitBucket, etc, etc)**

**Create a repo.**

Make sure there is at least one file in it (even just the README.md)

**Generate a SSH key pair (private/public):**

ssh-keygen -t rsa -C "your\_email@example.com"

or even better:

ssh-keygen -t rsa -b 4096 -C "your\_email@example.com"

**Copy the contents of the public SSH key**

macOS:

pbcopy < ~/.ssh/id\_rsa.pub

GNU/Linux (requires the xclip package):

xclip -sel clip < ~/.ssh/id\_rsa.pub

Windows Command Line:

type %userprofile%\.ssh\id\_rsa.pub | clip

Git Bash on Windows / Windows PowerShell:

cat ~/.ssh/id\_rsa.pub | clip

or ofcourse copy it via your favorite editor, cat, or whatever suits your needs :)

**Copy the public SSH key to GitHub**

Copy the contents of the to your SSH keys to your GitHub account settings (<https://github.com/settings/keys>).

**Test the SSH key:**

ssh -T git@github.com

Change directory into the local clone of your repository (if you're not already there) and run:

git remote set-url origin git@github.com:username/your-repository.git

Now try editing a file (try the README) and then do:

git add -A

git commit -am "Update README.md"

git push

You should not be asked for a username or password. If it works, your SSH key is correctly configured.

[](https://gist.github.com/themikesam)

[**themikesam**](https://gist.github.com/themikesam)**commented [on 17 Oct 2020](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3492593)**

* [git - Cloning a private Github repo - Stack Overflow](https://stackoverflow.com/questions/2505096/cloning-a-private-github-repo)

For private repo  
[git@github.com](mailto:git@github.com):username/repo.git

Начало формы

Конец формы

[](https://gist.github.com/PabloHdzVizcarra)

[**PabloHdzVizcarra**](https://gist.github.com/PabloHdzVizcarra)**commented**[**on 9 Nov 2020**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3520744)

thanks men , i had some time trying to achieve this

Начало формы

Конец формы

[](https://gist.github.com/IrinaKuz)

[**IrinaKuz**](https://gist.github.com/IrinaKuz)**commented**[**on 26 May**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3757286)

Thank you, it was very helpful.

Начало формы

Конец формы

[](https://gist.github.com/pavelmetalarm)

**[pavelmetalarm](https://gist.github.com/pavelmetalarm) commented**[**on 5 Jun**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3769838)

thanks a lot

Начало формы

Конец формы

[](https://gist.github.com/mknw)

**[mknw](https://gist.github.com/mknw) commented [on 30 Jun](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3797859) •**

**edited**

Great!

The last command: git remote set-url origin git@github.com:username/your-repository.git was actually all that was needed in my case.

Thank you!

Начало формы

Конец формы

[](https://gist.github.com/lkladnit)

**[lkladnit](https://gist.github.com/lkladnit) commented [on 13 Jul](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3810968)**

git remote set-url origin git@github.com:username/your-repository.git should be probsbly added to initial instructions on cloning a repository

Начало формы

Конец формы

**[ghost](https://gist.github.com/ghost) commented [on 16 Jul](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3815583) •**

**edited by ghost**

Hey. I tried it. I have a Public and a Private Key. I already coppied the Pub key to github. But when i run  
ssh -T git@github.com  
it returns git@github.com : Permisson denied (publickey)

do i tell git to authenticate with the Private key or something?

Thanks

Начало формы

Конец формы

[](https://gist.github.com/lkladnit)

**[lkladnit](https://gist.github.com/lkladnit) commented [on 18 Jul](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3816894) •**

**edited**

Hey. I tried it. I have a Public and a Private Key. I already coppied the Pub key to github. But when i run  
ssh -T git@github.com  
it returns git@github.com : Permisson denied (publickey)

do i tell git to authenticate with the Private key or something?

Thanks

try ssh -T git@github.com -v, you'll have a verbose output. You also should check the key files permissions, ssh is quite picky about them.  
ssh directory permissions should be 700 (drwx------). The public key (. pub file) should be 644 (-rw-r--r--). The private key (id\_rsa) on the client host, and the authorized\_keys file on the server, should be 600 (-rw-------)

Начало формы

Конец формы

[](https://gist.github.com/Confaa)

**[Confaa](https://gist.github.com/Confaa) commented [on 1 Aug](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3838381)**

Hello  
Nice to greet you  
In case you enter git remote set-url origin git@github.com: username / your-repository.git  
Users who do not have a ssh key configured, can they continue to upload commits via https?

Начало формы

Конец формы

[](https://gist.github.com/AhmedMohamedG)

[**AhmedMohamedG**](https://gist.github.com/AhmedMohamedG)**commented**[**on 13 Aug**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3860401)

Thanks a lot that was helpful.

Начало формы

Конец формы

[](https://gist.github.com/elvindsouza)

**[elvindsouza](https://gist.github.com/elvindsouza) commented [on 15 Aug](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3861522) •**

**edited**

Thanks a ton! was trying to set up my private repos to push-pull w/ ssh

Hi $myUsername! You've successfully authenticated, but GitHub does not provide shell access. I got this reply after testing the SSH key with ssh -T git@github.com. But whenever trying to push changes with git push origin master, it still prompts me to enter the password. Please help.

your ssh key is perfectly valid, perhaps you missed this step v  
git remote set-url origin [git@github.com](mailto:git@github.com):username/your-repository.git  
(for the git@.....git part you can even go to your repo, click the clone button and copy the ssh url)

Начало формы

Конец формы

[](https://gist.github.com/SamarthPardhi)

[**SamarthPardhi**](https://gist.github.com/SamarthPardhi)**commented [on 15 Aug](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3861616) •**

**edited**

your ssh key is perfectly valid, perhaps you missed this step v  
git remote set-url origin [git@github.com](mailto:git@github.com):username/your-repository.git  
(for the git@.....git part you can even go to your repo, click the clone button and copy the ssh url)

Yeah, I resolved the issue much before but forgot to delete the comment. Thanks

Начало формы

Конец формы

[](https://gist.github.com/martinlicht)

[**martinlicht**](https://gist.github.com/martinlicht)**commented**[**on 19 Aug**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3865846)

git remote set-url origin git@github.com:username/your-repository.git thanks! That important line is missing in the official GitHub documentation.

Начало формы

Конец формы

[](https://gist.github.com/pl-jay)

[**pl-jay**](https://gist.github.com/pl-jay)**commented [on 1 Sep](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3879376)**

Thank You !

Начало формы

Конец формы

[](https://gist.github.com/Caleb-Stripes)

[**Caleb-Stripes**](https://gist.github.com/Caleb-Stripes)**commented**[**on 2 Sep**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3880301)**•**

**edited**

When I run the command git remote set-url origin git@github.com:<my-user-name>/<my-repo-name> I get a fatal error: No such remote 'origin'

Начало формы

Конец формы

[](https://gist.github.com/martinlicht)

[**martinlicht**](https://gist.github.com/martinlicht)**commented [on 2 Sep](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278" \l "gistcomment-3880304)**

What about git remote add origin git@github.com:<my-user-name>/<my-repo-name>? Does that remote destination already exist in the repo?

Начало формы

Конец формы

[](https://gist.github.com/bjwealthy)

[**bjwealthy**](https://gist.github.com/bjwealthy)**commented**[**on 12 Sep**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3890553)

great security feature

Начало формы

Конец формы

[](https://gist.github.com/HaPuLo)

[**HaPuLo**](https://gist.github.com/HaPuLo)**commented**[**on 18 Oct**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3931039)

great security feature

Начало формы

Конец формы

[](https://gist.github.com/almiavicas)

[**almiavicas**](https://gist.github.com/almiavicas)**commented**[**on 30 Oct**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3945590)

Thanks! It realy helps the git remote set-url line

Начало формы

Конец формы

[](https://gist.github.com/CaramelHeaven)

[**CaramelHeaven**](https://gist.github.com/CaramelHeaven)**commented**[**on 13 Nov**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3960850)

great fucking secure issue from github.

Начало формы

Конец формы

[](https://gist.github.com/satylogin)

[**satylogin**](https://gist.github.com/satylogin)**commented**[**on 13 Nov**](https://gist.github.com/xirixiz/b6b0c6f4917ce17a90e00f9b60566278#gistcomment-3961265)

Thanks for the writeup :) They should really add the git remote set-url line in official setup.