

1. Регистрируемся на github.com
2. Генерируем rsa ключ(для беспарольного доступа)
ssh-keygen и тыкаем кучу раз enter

```

vratnikov@myserver:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/vratnikov/.ssh/id_rsa):
Created directory '/home/vratnikov/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/vratnikov/.ssh/id_rsa
Your public key has been saved in /home/vratnikov/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:qWI/0JTlukFkyi6wiUUEJ41YsDxmnx+KWGdArMpevPM vratnikov@myserver
The key's randomart image is:
+---[RSA 3072]-----+
|O=
|+=*
|o@..
|*.=.+ o
|*=o+o+ S
|B++=+ o.
|+..++o.
|..+ o.
| oE..
+----[SHA256]-----+
vratnikov@myserver:~$

```

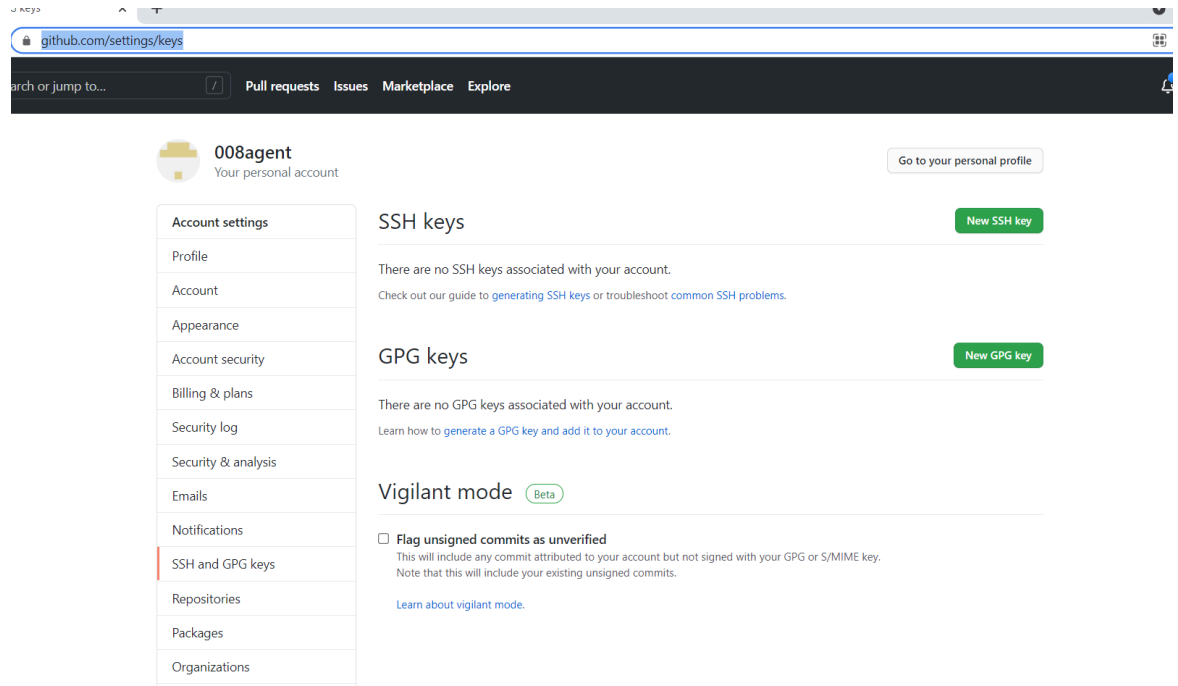
3. Cat ~/.ssh/id_rsa.pub и копируем всю строку

```

vratnikov@myserver:~$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQgQDRk+tMQvvpFap17Ne0S6lQ94+uoVocclslXGnPBuOE
iVOF+UqHs/iJZT45woR0tmvHsmeotmN5jVIXV+5+QMMtcpCA4rymSbpdSoe+CPG6WVI+jsmV1PbUzVSq
VR/W30f8KjYU7N2ICA/fBwlloPOumirtkv8N69FpRngLN8pil6WK2UkvH/sztYxznSpcG3IHDlRc2U9r
43WINZ7NO374wQgKukE9Y2hsYtZ06nBCAlcxVcWQ7IsB95m/dI6Z42/KknnGloQPzc3o5a75Bvp5or7S
XCMf9wEeUagQGdAF/rgvePnJiJ0dXRAt7WV2jpWEpngY+DpCFHBIdjg/jWZPcAZ1mKNyRt3ibmK3M+AC
aRdHJqWUK6dzntPElYWJh+y0qtLsTHIoYnowpg3ht2iYcuaPqWedqwVm+Ke19PKKhZluZp7dXx2Ruwft
i5o5ehGP3HjIFfno/i6WIlI1Eb3l7sF6RmXJmvmvzmD3B1Okm+OoddQyi16VVf29g6KrmBSU= vratnik
ov@myserver
vratnikov@myserver:~$

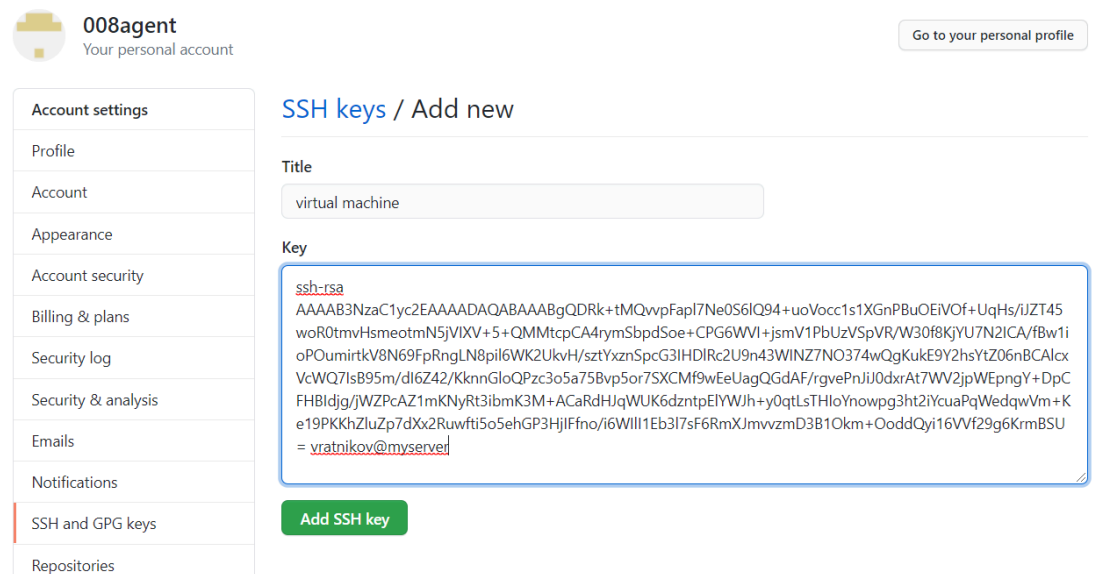
```

4. Заходим в настройки ключей в профиле на <https://github.com/settings/keys>



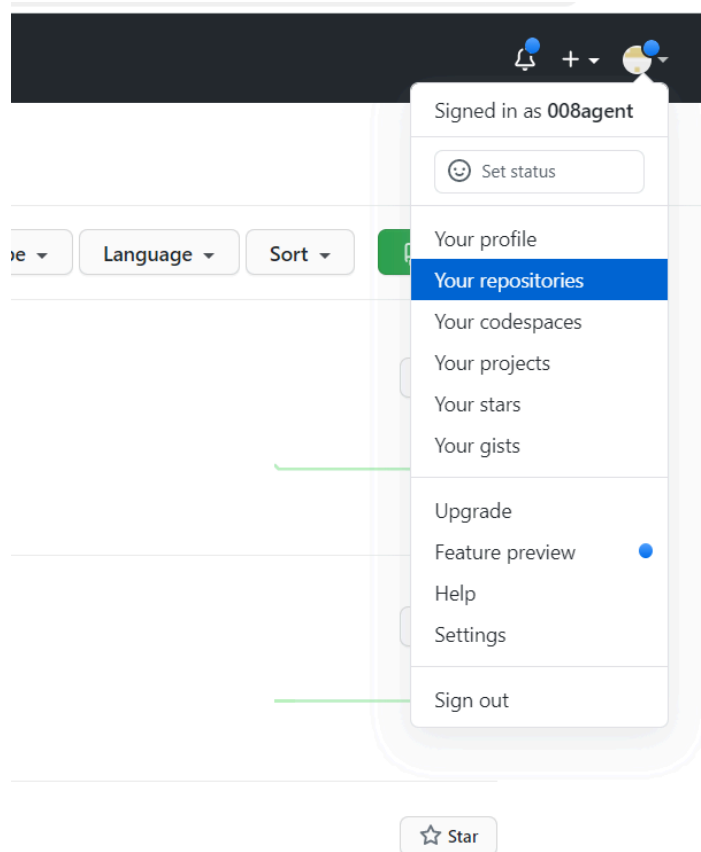
The screenshot shows the GitHub settings page for a user named '008agent'. The left sidebar contains a list of settings categories: Account settings, Profile, Account, Appearance, Account security, Billing & plans, Security log, Security & analysis, Emails, Notifications, SSH and GPG keys (highlighted), Repositories, Packages, and Organizations. The main content area is titled 'SSH keys' and includes a 'New SSH key' button. Below this, it states 'There are no SSH keys associated with your account.' and provides a link to a guide on generating SSH keys. The 'GPG keys' section also shows no keys and a 'New GPG key' button. The 'Vigilant mode' section is marked as 'Beta' and includes a checkbox for 'Flag unsigned commits as unverified'.

5. Тыкаем New SSH key. Вставляем свой ключ и жмём Add SSH key

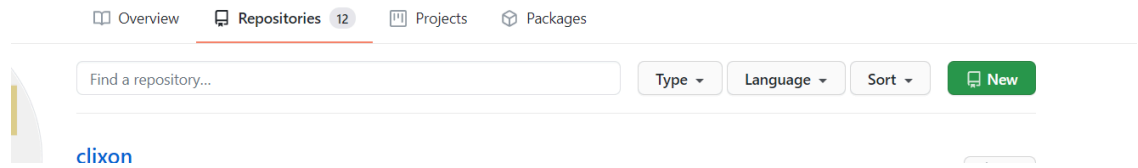


The screenshot shows the 'Add new SSH key' form on the GitHub settings page. The left sidebar is the same as in the previous screenshot, with 'SSH and GPG keys' highlighted. The main content area is titled 'SSH keys / Add new'. It has a 'Title' field with the value 'virtual machine'. The 'Key' field contains a long SSH key starting with 'ssh-rsa' and ending with 'vratnikov@myserved'. Below the key field is an 'Add SSH key' button.

6. Переходим на вкладку с репозиториями



7. Создаем новый репозиторий(New)



8. Имя произвольное, тип - public

Create a new repository

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

Owner * 008agent / Repository name * home_c ✓

Great repository names are home_c is available. able. Need inspiration? How about [refactored-bassoon?](#)

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.

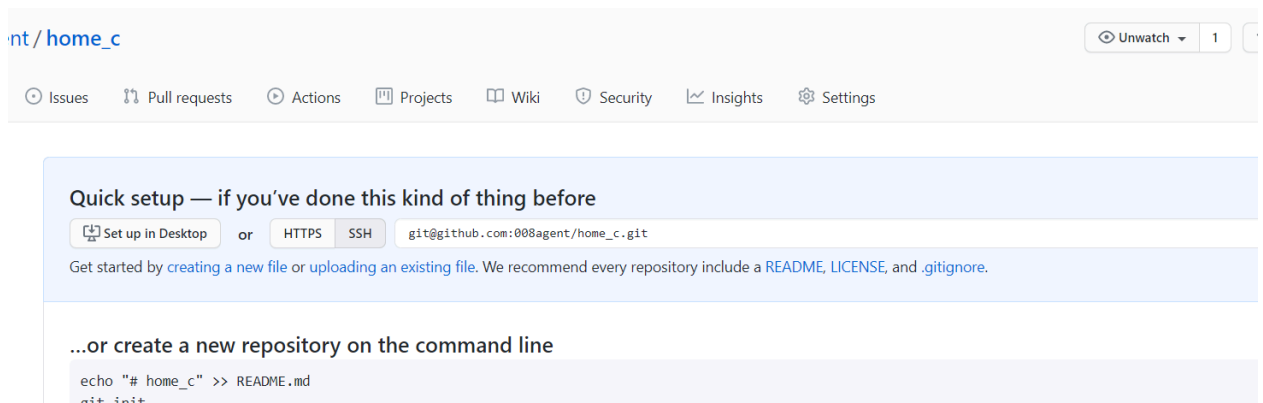
Initialize this repository with:

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

должно получиться нечто подобное. Тыкаем на SSH, чтобы получить ссылку SSH



9. Клонировем репозиторий себе на компьютер


git clone [git@github.com:008agent/home_c.git](https://github.com:008agent/home_c.git)

(ссылка для примера, у вас будет своя)

```
vratnikov@myserver:~$ git clone ssh://git@github.com:008agent/home_c.git
Cloning into 'home_c'...
ssh: Could not resolve hostname github.com:008agent: Name or service not known
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
vratnikov@myserver:~$ git clone git@github.com:008agent/home_c.git
Cloning into 'home_c'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.4' (RSA) to the list of known hosts.
warning: You appear to have cloned an empty repository.
vratnikov@myserver:~$ ll
total 48
drwxr-xr-x 7 vratnikov vratnikov 4096 Jul 26 09:27 ./
drwxr-xr-x 3 root root 4096 Jul 11 13:07 ../
-rw-r--r-- 1 vratnikov vratnikov 5884 Jul 22 19:54 .bash_history
-rw-r--r-- 1 vratnikov vratnikov 220 Feb 25 2020 .bash_logout
-rw-r--r-- 1 vratnikov vratnikov 3771 Feb 25 2020 .bashrc
drwx----- 2 vratnikov vratnikov 4096 Jul 11 13:07 .cache/
drwx----- 3 vratnikov vratnikov 4096 Jul 11 13:24 .config/
drwxrwxr-x 3 vratnikov vratnikov 4096 Jul 26 09:27 home_c/
-rw-r--r-- 1 vratnikov vratnikov 807 Feb 25 2020 .profile
drwx----- 2 vratnikov vratnikov 4096 Jul 26 09:27 .ssh/
-rw-r--r-- 1 vratnikov vratnikov 0 Jul 11 13:08 .sudo_as_admin_successful
drwxrwxr-x 6 vratnikov vratnikov 4096 Jul 22 16:46 workspace/
```

10. Мы скопировали пустой репозиторий. Пора в него что-то добавить



```
SSH FS - ubuntu-server > home_c > home1 > C main.c
1  #include <stdio.h>
2
3  int main(int argc, char **argv)
4  {
5      printf("This is my first git located project");
6      return 0;
7  }
```

```
ratnikov@myserver: ~/home_c
the repository exists.
nikov@myserver:~$ git clone git@github.com:008agent/home_c.git
Cloning into 'home_c'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,140.82.121.4' (RSA) to the list of known hosts.
warning: You appear to have cloned an empty repository.
nikov@myserver:~$ ll
total 48
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drwx----- 2 vratnikov vratnikov 4096 Jul 26 09:27 .ssh/
-rw-r--r-- 1 vratnikov vratnikov 0 Jul 11 13:08 .sudo_as_admin_successful
drwxrwxr-x 6 vratnikov vratnikov 4096 Jul 22 16:46 workspace/
nikov@myserver:~$ cd home_c/
nikov@myserver:~/home_c$ ls
nikov@myserver:~/home_c$ mkdir home1
nikov@myserver:~/home_c$ cd home1/
nikov@myserver:~/home_c/home1$ touch main.c
nikov@myserver:~/home_c/home1$ cd ..
nikov@myserver:~/home_c$
```

11. Настроим git(почта и имя пользователя ваши собственные)

git config --global user.email "008agent@mail.ru"

git config --global user.name "Vladimir Ratnikov"

12. Добавим измененные файлы в список индексов

`git add home1/main.c`

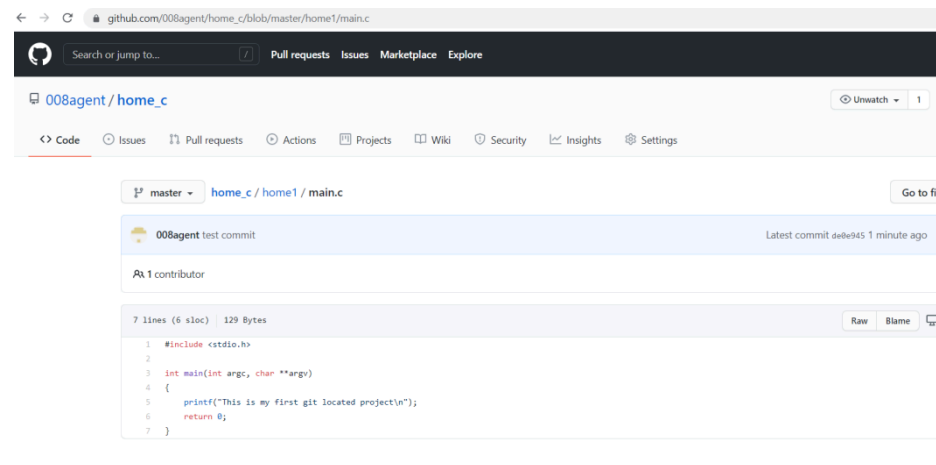
Добавим сообщение о коммите

`git commit` и сохраняем изменения. После этого можно заливать файл на github

`git push`

```
git/ home1/
vratnikov@myserver:~/home_c$ git add home1/main.c
vratnikov@myserver:~/home_c$ git commit -m "test commit"
[master de0e945] test commit
1 file changed, 1 insertion(+), 1 deletion(-)
vratnikov@myserver:~/home_c$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 329 bytes | 329.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
```

Посмотрим что мы сделали на github:



WARNING: Каждый раз делая изменения, нужно повторять шаги `git add`, `git commit`, `git push`

WARNING2: Инструкция краткая и не рассматриваем слияние веток, работу в команде, `rebase` и еще 90% особенностей `git`, для этого у Вас будет отдельный курс. Для сдачи текущих работ описанного здесь будет более чем достаточно.