

Лабораторная работа №2

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НПМбд-02-21

1.Регистрация на GitHub

The screenshot shows the GitHub profile page for a user named 'evkurkina'. The profile is new, having been created 44 minutes ago. The user has no public repositories yet. The page features a navigation bar with links to Overview, Repositories, Projects, Packages, and Stars. A circular avatar placeholder with a teal grid pattern is shown. Below the avatar is the username 'evkurkina' and an 'Edit profile' button. The 'Popular repositories' section is empty. The 'Contribution graph' section shows '1 contribution in the last year' with a calendar grid where a single dark green square is visible on Wednesday, April 6, 2022. A 'Contribution settings' dropdown is present. Below the graph, there is explanatory text about the contribution graph and a link to 'Read the Hello World guide'. At the bottom, the 'Contribution activity' section shows a timeline for April 2022 with an event 'Joined GitHub'.

Overview Repositories Projects Packages Stars

Popular repositories

You don't have any public repositories yet.

1 contribution in the last year

Contribution settings

Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr

Mon

Wed

Fri

Learn how we count contributions

Less More

This is your **contribution graph**. Your first square is for joining GitHub and you'll earn more as you make additional contributions. More contributions means a darker green square for that day. Over time, your chart might start looking [something like this](#).

We have a quick guide that will show you how to create your first repository and earn more green squares!

[Read the Hello World guide](#)

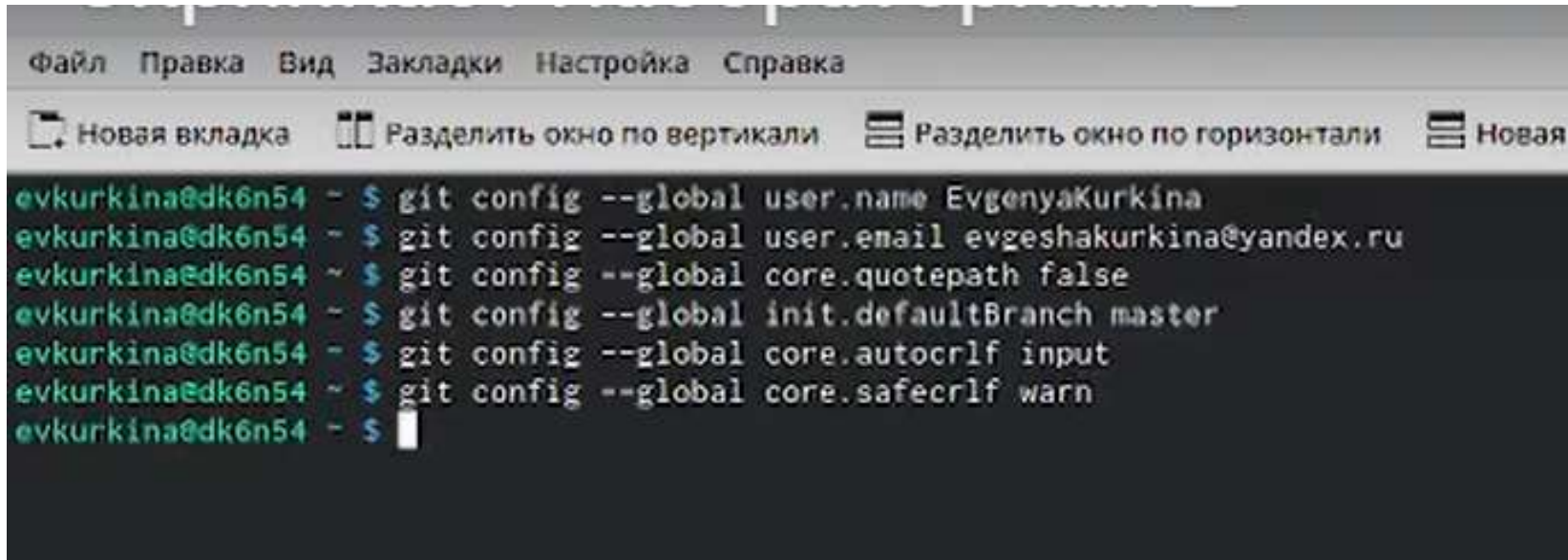
Contribution activity

2022

April 2022

Joined GitHub

2. Базовая настройка git, с помощью консоли и команд.

A screenshot of a terminal window with a menu bar at the top containing 'Файл', 'Правка', 'Вид', 'Закладки', 'Настройка', and 'Справка'. Below the menu bar are window management icons and labels: 'Новая вкладка', 'Разделить окно по вертикали', 'Разделить окно по горизонтали', and 'Новая'. The terminal shows a series of git configuration commands being entered at the prompt 'evkurkina@dk6n54 ~ \$'. The commands are: 'git config --global user.name EvgenyaKurkina', 'git config --global user.email evgeshakurkina@yandex.ru', 'git config --global core.quotepath false', 'git config --global init.defaultBranch master', 'git config --global core.autocrlf input', and 'git config --global core.safecrlf warn'. The last line shows the prompt with a cursor, indicating the session is still active.

```
Файл  Правка  Вид  Закладки  Настройка  Справка
Новая вкладка  Разделить окно по вертикали  Разделить окно по горизонтали  Новая
evkurkina@dk6n54 ~ $ git config --global user.name EvgenyaKurkina
evkurkina@dk6n54 ~ $ git config --global user.email evgeshakurkina@yandex.ru
evkurkina@dk6n54 ~ $ git config --global core.quotepath false
evkurkina@dk6n54 ~ $ git config --global init.defaultBranch master
evkurkina@dk6n54 ~ $ git config --global core.autocrlf input
evkurkina@dk6n54 ~ $ git config --global core.safecrlf warn
evkurkina@dk6n54 ~ $
```

3.Создание ключей SSH

```
evkurkina@dk6n54 ~ $ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_rsa
Your public key has been saved in /afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:MPT/NtRshVh1KXLredh8thhwYzFSeS5vbZfvd1E20I evkurkina@dk6n54
The key's randomart image is:
+---[RSA 4096]-----+
|
| . .
| . . . .
| o . . oo
| o . . =Eo.
| S .ooB0.B
| o**=0*
| +00oo
| ..0+**
| +. **
+-----[SHA256]-----+
```

```
evkurkina@dk6n54 ~ $ ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_ed25519
Your public key has been saved in /afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:ls9paqII2kDpqyhmSXIfVUjAc4XwJ/3jlTY786glcfQ evkurkina@dk6n54
The key's randomart image is:
+--[ED25519 256]--+
|
|.o+..+
| o+..
| oo.+
| . .+ + .
| o . S E =
|+. . . = * o
|=o. . . 0 =
|+B... . o o =
|0.o . . o. . .
+-----[SHA256]-----+
evkurkina@dk6n54 ~ $
```

4.Создание ключа PGP

```
-----[SHA256]-----
evkurkina@dk6n54 ~ $ gpg --full-generate-key
bash: gpg: команда не найдена
evkurkina@dk6n54 ~ $ gpg --full-generate-key
gpg (GnuPG) 2.2.33; Copyright (C) 2021 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Выберите тип ключа:
  (1) RSA и RSA (по умолчанию)
  (2) DSA и Elgamal
  (3) DSA (только для подписи)
  (4) RSA (только для подписи)
  (14) Инъекция на карте ключ
Ваш выбор? 1
длина ключей RSA может быть от 1024 до 4096.
Какой размер ключа Вам необходим? (3072) 4096
Запрошенный размер ключа = 4096 бит
Выберите срок действия ключа.
  0 = не ограничен
  <n> = срок действия ключа - n дней
  <n>w = срок действия ключа - n недель
  <n>m = срок действия ключа - n месяцев
  <n>y = срок действия ключа - n лет
Срок действия ключа? (0) <n>y
недопустимое значение
Срок действия ключа? (0) 0
Срок действия ключа не ограничен
Все верно? (y/N) y

GnuPG должен составить идентификатор пользователя для идентификации ключа.

Ваше полное имя: Evgenya
Адрес электронной почты: evgeshakurkina@yandex.ru
Примечание:
Вы выбрали следующий идентификатор пользователя:
  "Evgenya <evgeshakurkina@yandex.ru>"

Сменить (N)Имя, (C)Примечание, (E)Адрес; (O)Принять/(Q)Выход? 0
Сменить (N)Имя, (C)Примечание, (E)Адрес; (O)Принять/(Q)Выход? 0
```

5.Создание репозитория Lab2

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?

[Import a repository.](#)

Owner *

 evkurkina ▾

Repository name *

/ Lab2 ✓

Great repository names are: Lab2 is available. ✗rable. Need inspiration? How about fuzzy-doodle?

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:

6.Добавление созданных ключей в GitHub

```
evkurkina@dk6n54 ~ $ cat /afs/.dk.scl.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDSEQu0eTmBae5wUgUrrR4Qx6EQaTQ00taHHTNAjiEPaeEeyseqXG8tw43Psu7oSNVKiVrs+9/Z7
v5/D4qevyPb0pw69LEmriy17RD+YExm6pAcSz6LWQd61+uF7K0e7aJU3Bqva+R+Xmdg8S0hqatOvg41/CZSYLqamQ2YJa+eB1rCBM/pg+Zs8nk20TMpuwJ
fHC6750vXBNoKGfMTHnMaADLxGBsaxke6NoaPhL4dfZ15iy2wYF8YkmvEGsQV/RNB1qtG7RZHh4m1FKN9978hfHAP2wKPYGtGKKJfndKxbxtQzcMgBCI
SWKzWqZVAght7AK4C6joA/mxuneBeqzSN1dCS9/13tvf3L1zyFGraUqihRbH0mExBh/ud1Fe+4U099CbPdHhG4LBQCnC61/bzz677R52gfnsAKndM7o0t
gScFImlmwXZBeSIIx47M69Qkg8+1xNmzBExrfKmKeg0/9wQI8BCNo710ABwtjTt1MfHTMfpAzVLJVLrVUN2CtmXbZFE14TztC0eP/os1XH+lo2rrvkdKE
TTC6dUs/GKQOHhLVVr+H1E5UlpzmcMoo/IJ5DtK2U0sY7IrSH77Ch/8uQZB381A0gd5QWUacuXcZdBGPrgezpaSTlhJSdZhh2XCFTSfpScibmBCuKsDFk
cn7db2Twcf+fB2QpHPw== evkurkina@dk6n54
```

SSH keys / Add new

Title

Key

```
/afs/.dk.scl.pfu.edu.ru/home/e/v/evkurkina/.ssh/id_rsa.pub
/gG+Zs8nk20TMpuwJfHC6750vXBNoKGfMTHnMaADLxGBsaxke6NoaPhL4dfZ15iy2wYF8YkmvEGsQV
/RNB1qtG7RZHh4m1FKN9978hfHAP2wKPYGtGKKJfndKxbxtQzcMgBCISWKzWqZVAght7AK4C6joA
/mxuneBeqzSN1dCS9/13tvf3L1zyFGraUqihRbH0mExBh/ud1Fe+4U099CbPdHhG4LBQCnC61
/bzz677R52gfnsAKndM7o0tgScFImlmwXZBeSIIx47M69Qkg8+1xNmzBExrfKmKeg0
/9wQI8BCNo710ABwtjTt1MfHTMfpAzVLJVLrVUN2CtmXbZFE14TztC0eP/os1XH+lo2rrvkdKETTC6dUs
/GKQOHhLVVr+H1E5UlpzmcMoo/IJ5DtK2U0sY7IrSH77Ch
/8uQZB381A0gd5QWUacuXcZdBGPrgezpaSTlhJSdZhh2XCFTSfpScibmBCuKsDFkcn7db2Twcf=fB2QpHPw==
evkurkina@dk6n54
```

Add SSH key

GPG keys

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



Email address: evgeshakurkina@yandex.ru

Key ID: 138B2D0722614108

Subkeys: 825658DDDD0091C0E

Added on Apr 21, 2022

Delete

Learn how to generate a GPG key and add it to your account.

```
mQINBoJhPSUeA0BZ4t0j0n19Xlnhneq0d86tE0j0jJpLwHfVU7Yt1A5F30na0
ndyyzQ8U7ieTy6r1ug3/s9XLSqoy28Qcqv2v18mgY3/3Cpe70Kt681mzFYt
ruiCNAB2t0nkM1WYR0/gmEmv125JfWw0Q9J9qJAnMK8AKf5f5t780fck10b
0Cn9TeC9kQh0sayaJo5m2ef+93srkKvK27bYhrfZhrvbbbb+4xZ1SHV1coPax
y3qnaB0Mh0q0v21vhgfpn/qk3ojL3wqMUB3ghmf/346Waye1qBExcp3sq
Krm5AyvhaX/7wQ230W0fEEArm016JauK4/H2w40shvqj3H64F1mzf4C1cdnA
dUy/6sKXN4454C8Zve001tam9fYzb1FK0gmQ01LH1G0upq3y01hRPN5uVA
IMWaqTey0db+g2Vf/BuJ/K3sTPb01Ean+exDNTYaPMU20404uWY7FE0e2C1kC1
31GSU+ofL9RdLxRZi7w0a7ZhuCy211H21mLwKac/34n46pB0m5e150hG
FTPMKQqIP/VexKV2cTvdvlgVogPjw0bHjzHBy2sm/28xv79nncwq2JymF
Zu3H80GJYQJGwzCRdGuay1a++fveRLWk7EDHcW1Cc/CvaHx15C0Ux8wARAQAB
tC7FdadJbnJhIDxldedlc2hha3Vya21uU65VW5kZ1guenU+IQJ0B5MBCAA4f1EE
XPVbi1TsvPcFNUi043t8yZnQ0qfAm7HfSUC0wPcWk19uJ0fQo3CAsCBBYCAwEC
HgECF4AACgkQE+stBy3HQqjYBA//T1AB0TSMFAFY0eZ3C7W+Xctj7YFC/z4FVnd
RNgSw0VEndfLs+XyWwLP8f72uNRu43EUgnfakz57FKJ8R66632MKVS9Prat
sz12A4C0+TXacQKEXYAB1d2F34Z/UKPQDSWJo01fCy0Q0C1A8eqj2LAhHfY0Q
DE0tgeE1Hh2AT8DK850aE1+MwH5drkFW7XKdove/G1EgYfGp1hR9zNgzBMHJ
9FJRCwO/G384HrMHKJNGs+2Vfadh0A7xELRU3GQ/LMB0uVH32VrD40Zfyc0c
teHy7aaJ3uH10ee0Vve0Yssnab0Y7/0B130hZf03mJ5A5auXy+0msLmfB
ND+0bzaFz1w17V9R7w60FEY1pT1icLW6Gh0gukX1h0RfE8sArq0w01Yk12
UmCH350f0tp0Gsa1Phe01ORSAT0hnrPQ21hH241aj7Hk3HcW0hsc1BZuc00
ceHLB1CaT2ov1sqwAB0kt7JJAuW+zXuS/Y8H5fhefHndf8vW4MmP0uBU
n7DAV3H0M51hPaafK21fVxq7eXpQ2J0u00343KUL9TF100u0v0qC/12s0y
VhJannZVh1q01LckTab0UR+k70H09TJfUW1QWHLwCVRWZd5NfFA7Hgg01C2
14gxy54g0EYn81QEQANC504Am1qdk33akw0FA7692AcndWU3y0EKnT5Q
EcPSw0CJL8q0u5xq365ETCP4Khd15G4yHc181d5a16p+P6C0qBz0Q3Y1D
UQR5N0y+552FoTgmk+Yu5fB1489tJHr+rbY1VaQRC73e0bztk2MFSC8P625z5+
Us*Hb11s/p11HuzcE0zuF1xVT+tt7d031P711LmPEkde4rN0tLee1CgTPBo
81v4Lh0e5f5y2b0K7frox1yw+087f9WUabW07b01zjk+phQR61u7d0E71Ma1d5
newZPS16EGru1SP0xe1Wm2AncvqFFTC0P6RRWdtk20u0rAS+5Thx1d9KXKJdk
qCH0e915d00A3k1Emrrn018ye11WuY0044V9qBx0u07p5552jzgGd3VWx
60hr2R44G0h0x03mC7jan99fImZB07FHLR3C/20k1663R0utJu/g+Hb7W7hZ
EBK/VH0JGNSFe7Bx0IMXN0SSAS5P00u0L441pFE147W/F8027b3jMy7K
0ctU0x0KXfM3L43jgJH9P7p5y43dQAGPdeqXWdK20Lgm119TVW00A3HE/
Nkw0B0A811hZ5AYS/1H02U5Wk31R0fFB3AREG12yc010EDR0ENR0F0B0Cf
AB0BAAGJAjUG0AEIACAM1QR0YVnJ0XUJWU1SW4TJy0HImFCAUCYMe9J02BDAK
CRAT1y0HImF0CNA+P/Yx0j729c3X0HfHw28ARZdcUx325u7A0ng03z0ey08Y44
nSPQ/vv701u0p0PB4V53JH0WZ2MK1H91rd4t7YHRz28BjRXKdG0V0FVWxAR
3004xyf0h5HkZ2H0AR0B0H57zFRCP6H0ak9rSRkAn/1/udw967fSR2KfHyqX
rm2p1b3f072B0H0B0AY1vEPQ0rV1n435nPd0h1Q031f0jny5H0D08yzrT001
w0m0aPfnz/E2p0d0475L4nd0t01/PERfYS0N140R0uX5X2KJ3ByY0CJ1a00
HBC10A+0x5+X0Yf03Lm1Q03f01MMW4+51p+0Hw1V32E5000R1Cp0brVLs/0
Z7Q3a0vnrEsp2kdTE+091f7HhZ0u010B0m0u0p0W3cr+0Q0g0u0K5Ugey
BLAC5X0qYV00g0ct0nc0550hC1m0u0P15z0vY1A0CBAN1H0E1A0mY1d1v0V
IPew100J1abf1JTH0F/V0f3L0xPTC1Gah071G30h0C040m0P00P00K00u
cnfH0hK0Y01BZ0aj2H0a5rAZ0y03A0Q0cT4F0Y7H05H1T0H05A0Y0d0UWfz
P0cUy0cU0E0a70qH0m05A20H0k0W0Jt12CJe7Jg0g70f177591B0A0c0
H0H00
```

-----END PGP PUBLIC KEY BLOCK-----

7.Выполнила основные команды git

```
evkurkina@dk6n54 ~ $ git init
Инициализирован пустой репозиторий Git в /afs/.dk.sci.pfu.edu.ru/home/e/v/evkurkina/.git/
evkurkina@dk6n54 ~ $ git pull
У текущей ветки нет информации об отслеживании.
Пожалуйста, укажите с какой веткой вы хотите слить изменения.
Для дополнительной информации, смотрите git-pull(1).

git pull <внешний-репозиторий> <ветка>

Если вы хотите указать информацию о отслеживаемой ветке, выполните:

git branch --set-upstream-to=<внешний-репозиторий>/<ветка> master

evkurkina@dk6n54 ~ $ git push
fatal: Не настроена точка назначения для отправки.
Либо укажите URL с помощью командной строки, либо настройте внешний репозиторий с помощью

git remote add <имя> <адрес>

а затем отправьте изменения с помощью имени внешнего репозитория

git push <имя>

evkurkina@dk6n54 ~ $ git
```

```
evkurkina@dk6n54 ~/os-intro $ git push
Перечисление объектов: 20, готово.
Подсчет объектов: 100% (20/20), готово.
При сжатии изменений используется до 6 потоков
Сжатие объектов: 100% (16/16), готово.
Запись объектов: 100% (19/19), 265.87 КиБ | 2.20 МиБ/с, готово.
Всего 19 (изменений 2), повторно использовано 0 (изменений 0), повторно использовано
пакетов 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:evkurkina/study_2021-2022_os-intro.git
61fcf71..2e7e8bc master -> master
```


8. Настройка автоматических подписей КОММИТОВ git

```
evkurkina@dk6n54 ~ $ git config --global user.signingkey 138B200722614108  
evkurkina@dk6n54 ~ $ git config --global commit.gpgsign true  
evkurkina@dk6n54 ~ $ git config --global gpg.program $(which gpg2)
```

9. Создание репозитория курса на основе шаблона

```
evkurkina@dk6n54 ~ $ mkdir -p ~/work/study/2021-2022/"Операционные системы"
evkurkina@dk6n54 ~ $ cd ~/work/study/2021-2022/"Операционные системы"
evkurkina@dk6n54 ~/work/study/2021-2022/Операционные системы $
evkurkina@dk6n54 ~/work/study/2021-2022/Операционные системы $ git clone --recursive
git clone --recursive
```

Owner * / Repository name *

Great repository names are: Your new repository will be created as `-study_2021-2022_os-intro.g` [ish-spark?](#)

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.

☐ **Include all branches**
Copy all branches from yamadharma/course-directory-student-template and not just master.

[Create repository from template](#)

master ▾ Go to file Add file ▾ Code ▾

evkurkina Initial commit

config	Initial commit	
template	Initial commit	
.gitattributes	Initial commit	
.gitignore	Initial commit	
.gitmodules	Initial commit	3 minutes ago
LICENSE	Initial commit	3 minutes ago
Makefile	Initial commit	3 minutes ago
README.en.md	Initial commit	3 minutes ago
README.git-flow.md	Initial commit	3 minutes ago
README.md	Initial commit	3 minutes ago
package.json	Initial commit	3 minutes ago

Clone

HTTPS SSH GitHub CLI **From**

Use a password-protected SSH key.

Download ZIP

10. Настройка каталога курса

```
evkurkina@dk6n54 ~/os-intro $ git add .  
git: «add.» не является командой git. Смотрите «git --help».  
evkurkina@dk6n54 ~/os-intro $ git add .  
evkurkina@dk6n54 ~/os-intro $ git commit -am 'feat(main): make cours structure'
```

```
evkurkina@dk6n54 ~/os-intro $ git push  
Перечисление объектов: 20, готово.  
Подсчет объектов: 100% (20/20), готово.  
При скатии изменений используется до 6 потоков  
Сжатие объектов: 100% (16/16), готово.  
Запись объектов: 100% (19/19), 265.87 КиБ | 2.20 МиБ/с, готово.  
Всего 19 (изменений 2), повторно использовано 0 (изменений 0), повторно использовано  
пакетов 0  
remote: Resolving deltas: 100% (2/2), completed with 1 local object.  
To github.com:evkurkina/study_2021-2022_os-intro.git  
61fcf71..2e7e8bc master -> master
```