

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ
Факультет физико-математических и естественных наук
Кафедра ИТ

ЛАБОРАТОРНАЯ РАБОТА №2
дисциплина: Операционные системы

Студент: Кузнецов Алексей
Группа: НБИбд-02-21
Ст. билет №: 1032212957

Москва
2022 г.

Цель работы

Целью данной работы является изучение идеологии и применение средств контроля версий.

Создаём учетную запись на github

The screenshot shows a GitHub profile page for the user **PRoMofficialiPRoMise**. The profile picture is a circular avatar with a stylized dragon or phoenix design. The user has a **PRO** badge. The navigation bar at the top includes **Overview**, **Repositories** (with a count of 2), **Projects**, **Packages**, and **Stars**.

Popular repositories

- [study_2021-2022_os-intro](#) (Public) by [TeX](#)

8 contributions in the last year

Contribution activity is shown in a calendar grid for the last year (April 2021 to April 2022). The grid shows contributions on specific days, with a color scale from green (Less) to red (More). A link to [Learn how we count contributions](#) is provided. A **NEW!** banner encourages viewing contributions in 3D, VR, and IRL.

Contribution activity

The activity bar at the bottom shows the timeline from **April 2022** to **2021**.

Настраиваем систему контроля версий git
Синхронизируем учётную запись github с компьютером:


```
[avkuznecovl@localhost-live ~]$ git config --global user.email "promofficialipromise@gmail.com"
[avkuznecovl@localhost-live ~]$ git config --global user.name "Aleksei Kuznecov"
[avkuznecovl@localhost-live ~]$ git remote add origin git@github.com:PRoMofficialiPRoMise/avkuznecov.git
[avkuznecovl@localhost-live ~]$ git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'github.com:PRoMofficialiPRoMise/avkuznecov.git'
[avkuznecovl@localhost-live ~]$ git config --global core.quotePath false
[avkuznecovl@localhost-live ~]$ git config --global init.defaultBranch master
[avkuznecovl@localhost-live ~]$ git config --global core.autocrlf input
```

Создаём новый ключ на github ssh-keygen и привязываем его к компьютеру через консоль

```
[avkuznecovl@localhost-live ~]$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/avkuznecovl/.ssh/id_rsa):
Created directory '/home/avkuznecovl/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/avkuznecovl/.ssh/id_rsa
Your public key has been saved in /home/avkuznecovl/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:IyE3Dpi/sAfALCC4Mlor+CVKFHWsqTv2FIeW/o2Cedw avkuznecovl@localhost-live
The key's randomart image is:
+----[RSA 4096]-----+
|
|+ . . . .
|* . 0 . .
|o++ = +
|=0.+0= 0
|=0+*..0 S
|+0=++ . . .
|.+=+
|.*0=.Eo
|. +..0 .
+----[SHA256]-----+
[avkuznecovl@localhost-live ~]$ S
```

Создаём новый репозиторий на сайте под названием work и переносим его на наш ПК

Quick setup — if you've done this kind of thing before


 Set up in Desktop

 or

HTTPS

SSH


git@github.com:PRoMofficialiPRoMise/avkuznecov1.git



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).


...or create a new repository on the command line

```
echo "# avkuznecov1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:PRoMofficialiPRoMise/avkuznecov1.git
git push -u origin main
```



...or push an existing repository from the command line

```
git remote add origin git@github.com:PRoMofficialiPRoMise/avkuznecov1.git
git branch -M main
git push -u origin main
```



...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

Устанавливаем в консоли gh и проходим авторизацию:

```
[avkuznecovl@localhost-live Операционные системы]$ sudo dnf install gh~
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

```
[sudo] password for avkuznecovl:
```

```
Fedora 35 - x86_64
```

```
Fedora 35 openh264 (From Cisco) - x86_64
```

```
Fedora Modular 35 - x86_64
```

```
Fedora 35 - x86_64 - Updates
```

```
Fedora Modular 35 - x86_64 - Updates
```

```
No match for argument: gh~
```

```
Error: Unable to find a match: gh~
```

```
[avkuznecovl@localhost-live Операционные системы]$ gh
```

```
bash: gh: command not found...
```

```
[avkuznecovl@localhost-live Операционные системы]$ sudo dnf install gh
```

```
Last metadata expiration check: 0:00:39 ago on Sat 23 Apr 2022 02:37:17 PM EDT.
```

```
Dependencies resolved.
```

```
=====
Package                                Architecture
=====
Installing:
gh                                     x86_64
=====
```

```
Transaction Summary
```

```
=====
Install 1 Package
=====
```

```
Total download size: 6.8 M
```

```
Installed size: 32 M
```

```
Is this ok [y/N]:
```

```
[avkuznecovl@localhost-live Операционные системы]$ gh auth login
```

```
? What account do you want to log into? GitHub.com
```

```
? What is your preferred protocol for Git operations? SSH
```

```
? Upload your SSH public key to your GitHub account? /home/avkuznecovl/.ssh/id_rsa.pub
```

```
? How would you like to authenticate GitHub CLI? Login with a web browser
```

```
! First copy your one-time code: 9A3C-A463
```

```
Press Enter to open github.com in your browser...
```

```
✓ Authentication complete.
```

```
- gh config set -h github.com git_protocol ssh
```

```
✓ Configured git protocol
```

```
✓ Uploaded the SSH key to your GitHub account: /home/avkuznecovl/.ssh/id_rsa.pub
```

```
✓ Logged in as PRoMofficialiPRoMise
```

```
[avkuznecovl@localhost-live Операционные системы]$
```

Применяем шаблон, который был указан в методичке

```
[avkuznecovl@localhost-live Операционные системы]$ git clone --recursive git@github.com:PRoMofficialiPRoMise/study_2021-2022_os-intro.git os-intro
Cloning into 'os-intro'...
remote: Enumerating objects: 20, done.
remote: Counting objects: 100% (20/20), done.
remote: Compressing objects: 100% (18/18), done.
remote: Total 20 (delta 2), reused 15 (delta 2), pack-reused 0
Receiving objects: 100% (20/20), 12.50 KiB | 12.50 MiB/s, done.
Resolving deltas: 100% (2/2), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/home/avkuznecovl/work/study/2021-2022/Операционные системы/os-intro/template/presentation'...
remote: Enumerating objects: 42, done.
remote: Counting objects: 100% (42/42), done.
remote: Compressing objects: 100% (34/34), done.
remote: Total 42 (delta 9), reused 40 (delta 7), pack-reused 0
Receiving objects: 100% (42/42), 31.19 KiB | 7.80 MiB/s, done.
Resolving deltas: 100% (9/9), done.
Cloning into '/home/avkuznecovl/work/study/2021-2022/Операционные системы/os-intro/template/report'...
remote: Enumerating objects: 78, done.
remote: Counting objects: 100% (78/78), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 78 (delta 31), reused 69 (delta 22), pack-reused 0
Receiving objects: 100% (78/78), 292.27 KiB | 1.56 MiB/s, done.
Resolving deltas: 100% (31/31), done.
Submodule path 'template/presentation': checked out '3eae7b7586f8a9aded2b506cd1018e625b228b93'
Submodule path 'template/report': checked out 'df7b2ef80f8def3b9a496f8695277469a1a7842a'
[avkuznecovl@localhost-live Операционные системы]$
```


Делаем первый commit и выкладываем его на github. Я сделал сначала макет Лабораторных, а также залил данные первой лабы, поэтому на скриншоте вместится только пуш (видно, что много файлов было установлено)

```
[avkuznecovl@localhost-live os-intro]$ git push
Enumerating objects: 25, done.
Counting objects: 100% (25/25), done.
Compressing objects: 100% (21/21), done.
Writing objects: 100% (24/24), 4.63 MiB | 3.39 MiB/s, done.
Total 24 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:PRoMofficialiPRoMise/study_2021-2022_os-intro.git
 4ee77a9..4d339cc master -> master
```

Вывод

Я изучил идеологию и применение контроля версий.

Спасибо за внимание!