

Операционные системы

Управление версиями

Бозорова Ануша

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1. 1. Цели и задачи работы

1.1 Цель лабораторной работы

Целью данной работы является изучение идеологии и применения средств контроля версий и освоение умений работать с git.

2. 2. Процесс выполнения лабораторной работы



2.1 Глобальные параметры репозитория

```
aibozorova@aibozorova:~$  
aibozorova@aibozorova:~$ git config --global user.name "aibozorova"  
aibozorova@aibozorova:~$ git config --global user.email "1132250410@rudn.ru"  
aibozorova@aibozorova:~$ git config --global core.quotepath false  
aibozorova@aibozorova:~$ git config --global init.defaultBranch master  
aibozorova@aibozorova:~$ git config --global core.autocrlf input  
aibozorova@aibozorova:~$ git config --global core.safecrlf warn  
aibozorova@aibozorova:~$
```

Рисунок 1: Параметры репозитория

2.2 Добавляем GPG ключ в аккаунт

The screenshot shows the GitHub account settings interface. On the left, a sidebar lists various account management options like Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and licensing, Emails, Password and authentication, Sessions, SSH and GPG keys (which is selected and highlighted in grey), Organizations, Enterprises, Moderation, Code, planning, and automation, and Repositories. The main content area has two sections: 'SSH keys' and 'GPG keys'. The 'SSH keys' section displays one key entry: SHA256: CpScvqyshK1hfrws315Ts3cZojuEncdYgfv6vAN23A, added on Oct 9, 2025, last used within the last 3 months — Read/write, with a 'Delete' button. Below it is a link to a guide for connecting to GitHub using SSH keys. The 'GPG keys' section displays one key entry: Email address: 1132250410@rudn.ru, Key ID: @AFE904EFCDC667C, Subkeys: 99F26EF035D33C56, added on Feb 17, 2026, with a 'Delete' button.

SSH keys

New SSH key

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

Authentication keys

1
SHA256: CpScvqyshK1hfrws315Ts3cZojuEncdYgfv6vAN23A
SSH
Added on Oct 9, 2025
Last used within the last 3 months — Read/write
Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

New GPG key

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

1
Email address: 1132250410@rudn.ru
Key ID: @AFE904EFCDC667C
Subkeys: 99F26EF035D33C56
GPG
Added on Feb 17, 2026
Delete

Рисунок 2: GPG ключ

2.3 Настройка gh

```
aibozorova@aibozorova:~$ mkdir -p ~/work/study/2025-2026/"Операционные системы"
aibozorova@aibozorova:~$ cd ~/work/study/2025-2026/"Операционные системы"
aibozorova@aibozorova:~/work/study/2025-2026/Операционные системы$ gh repo create 2026-1--study--os-intro --template=yamadharma/course-directory-student-template --public
  ✓ Created repository aibozorova/2026-1--study--os-intro on github.com
    https://github.com/aibozorova/2026-1--study--os-intro
aibozorova@aibozorova:~/work/study/2025-2026/Операционные системы$ git clone --recursive git@github.com:aibozorova/2026-1--study--os-intro.git 2026-1--study--os-intro
Cloning into '2026-1--study--os-intro'...
The authenticity of host 'github.com (140.82.121.3)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvVGtUJhbPZisF/zLDA0zPMsvHdkr4UvC0qu.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 40, done.
remote: Counting objects: 100% (40/40), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 40 (delta 1), reused 28 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (40/40), 25.25 KiB | 103.00 KiB/s, done.
Resolving deltas: 100% (1/1), 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/aibozorova/work/study/2025-2026/Операционные системы/2026-1--study--os-intro/template/presentation'...
```

Рисунок 3: Связь репозитория с аккаунтом

2.4 Подготовка репозитория

```
create mode 100644 project-personal/stage06/presentation/os-intro--project-personal--stage06--presentation.
create mode 100644 project-personal/stage06/report/.gitignore
create mode 100644 project-personal/stage06/report/.marksman.toml
create mode 100644 project-personal/stage06/report/.projectile
create mode 100644 project-personal/stage06/report/Wakefile
create mode 100644 project-personal/stage06/report/_extensions/yamadharma/minted-quarto/_extension.yml
create mode 100644 project-personal/stage06/report/_extensions/yamadharma/minted-quarto/minted-quarto.lua
create mode 100644 project-personal/stage06/report/_quarto.yml
create mode 100644 project-personal/stage06/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 project-personal/stage06/report/_resources/tex/preamble.tex
create mode 100644 project-personal/stage06/report/bib/cite.bib
create mode 100644 project-personal/stage06/report/image/solvay.jpg
create mode 100644 project-personal/stage06/report/os-intro--project-personal--stage06--report.qmd
aibozorova@aibozorova:~/work/study/2025-2026/Операционные системы/2026-1--study--os-intro$ git push
Enumerating objects: 109, done.
Counting objects: 100% (109/109), done.
Delta compression using up to 8 threads
Compressing objects: 100% (90/90), done.
Writing objects: 100% (106/106), 705.51 KiB | 4.93 MiB/s, done.
Total 106 (delta 41), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (41/41), completed with 1 local object.
To github.com:aibozorova/2026-1--study--os-intro.git
  34e4b9a..d42a85e master -> master
aibozorova@aibozorova:~/work/study/2025-2026/Операционные системы/2026-1--study--os-intro$
```

Рисунок 4: Подготовка репозитория

3. 3. Выводы по проделанной работе



3.1 Вывод

Мы приобрели практические навыки работы с сервисом github.