

Операционные системы

Управление версиями

Богдан Гаряев

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Цели и задачи работы

Процесс выполнения лабораторной работы

Выводы по проделанной работе

1. Цели и задачи работы

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

2. Процесс выполнения лабораторной работы

```
bgaryaev@bgaryaev:~$  
bgaryaev@bgaryaev:~$ git config --global user.name "br-garyaev"  
bgaryaev@bgaryaev:~$ git config --global user.email "1032251945@rudn.ru"  
bgaryaev@bgaryaev:~$ git config --global core.quotepath false  
bgaryaev@bgaryaev:~$ git config --global init.defaultBranch master  
bgaryaev@bgaryaev:~$ git config --global core.autocrlf input  
bgaryaev@bgaryaev:~$ git config --global core.safecrlf warn  
bgaryaev@bgaryaev:~$
```

Рисунок 1: Параметры репозитория

Добавляем GPG ключ в аккаунт

```
8A235700E075.rev'  
public and secret key created and signed.  
  
pub   rsa4096 2026-02-20 [SC]  
      69F9554045D4A952211B28B01CD78A235700E075  
uid           br-garyaev <1032251945@rudn.ru>  
sub   rsa4096 2026-02-20 [E]  
  
bgaryaev@bgaryaev:~$  
bgaryaev@bgaryaev:~$ gpg --list-secret-keys --keyid-format LONG  
gpg: checking the trustdb  
gpg: marginals needed: 3 completes needed: 1 trust model: pgp  
gpg: depth: 0 valid: 1 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 1u  
[keyboxd]  
-----  
sec   rsa4096/1CD78A235700E075 2026-02-20 [SC]  
      69F9554045D4A952211B28B01CD78A235700E075  
uid           [ultimate] br-garyaev <1032251945@rudn.ru>  
ssb   rsa4096/5D7D9830B960E3E2 2026-02-20 [E]  
  
bgaryaev@bgaryaev:~$ gpg --armor --export 1CD78A235700E075 | xclip -sel clip  
bgaryaev@bgaryaev:~$
```

Рисунок 2: GPG ключ

```
bgaryaev@bgaryaev:~$  
bgaryaev@bgaryaev:~$ gh auth login  
? Where do you use GitHub? GitHub.com  
? What is your preferred protocol for Git operations on this host? SSH  
? Upload your SSH public key to your GitHub account? /home/bgaryaev/.ssh/id\_rsa.pub  
? Title for your SSH key: GitHub CLI  
? How would you like to authenticate GitHub CLI? Login with a web browser  
  
! First copy your one-time code: 5AA4-5246  
Press Enter to open https://github.com/login/device 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/bgaryaev/.ssh/id\_rsa.pub  
✓ Logged in as br-garyaev  
bgaryaev@bgaryaev:~$
```

Рисунок 3: Связь репозитория с аккаунтом

```
create mode 100644 project-personal/stage06/report/_projectile
create mode 100644 project-personal/stage06/report/Makefile
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
bgaryaev@bgaryaev:~/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), 705.57 KiB | 5.08 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:br-garyaev/2026-1--study--os-intro.git
 9140459..768a5bc master -> master
bgaryaev@bgaryaev:~/work/study/2025-2026/Операционные системы/2026-1--study--os-intro$
```

Рисунок 4: Подготовка репозитория

3. Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.