

Операционные системы

Управление версиями

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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

```
sapolyakov@sapolyakov:~$  
sapolyakov@sapolyakov:~$ git config --global user.name "sapolyakov535"  
sapolyakov@sapolyakov:~$ git config --global user.email "1032250311@rudn.ru"  
sapolyakov@sapolyakov:~$ git config --global core.quotepath false  
sapolyakov@sapolyakov:~$ git config --global init.defaultBranch master  
sapolyakov@sapolyakov:~$ git config --global core.autocrlf input  
sapolyakov@sapolyakov:~$ git config --global core.safecrlf warn  
sapolyakov@sapolyakov:~$
```

Рисунок 1: Параметры репозитория

Добавляем GPG ключ в аккаунт

```
sapolyakov@sapolyakov:~$  
sapolyakov@sapolyakov:~$ 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/B3338F4E9506C8A7 2026-02-19 [SC]  
      6C656C21976B4AB340748CBE8B3338F4E9506C8A7  
uid           [ultimate] sapolyakov535 <1032250311@rudn.ru>  
ssb   rsa4096/951A41CD6FDED2A9 2026-02-19 [E]  
  
sapolyakov@sapolyakov:~$ gpg --armor --export B3338F4E9506C8A7 | xclip -sel clip  
sapolyakov@sapolyakov:~$
```

Рисунок 2: GPG ключ

```
sapolyakov@sapolyakov:~$  
sapolyakov@sapolyakov:~$ gh auth login  
? Where do you use GitHub? Other  
? Hostname:  
  
sapolyakov@sapolyakov:~$ 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/sapolyakov/.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: 5FDA-1C54  
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/sapolyakov/.ssh/id_rsa.pub  
✓ Logged in as sapolyakov535  
sapolyakov@sapolyakov:~$
```

Рисунок 3: Связь репозитория с аккаунтом


```
create mode 100644 project-personal/stage06/report/.marksmen.toml
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
sapolyakov@sapolyakov:~/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 | 4.58 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:sapolyakov535/2026-1--study--os-intro.git
   e08b60e..7659c5c  master -> master
sapolyakov@sapolyakov:~/work/study/2025-2026/Операционные системы/2026-1--study--os-intro$
sapolyakov@sapolyakov:~/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.