

Операционные системы

Управление версиями

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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. Процесс выполнения лабораторной работы

2.1 Глобальные параметры репозитория

```
aachernyatin@aachernyatin:~$  
aachernyatin@aachernyatin:~$ git config --global user.name "aa-chertyanin"  
aachernyatin@aachernyatin:~$ git config --global user.email "1132246223@pfur.ru"  
aachernyatin@aachernyatin:~$ git config --global core.quotepath false  
aachernyatin@aachernyatin:~$ git config --global init.defaultBranch master  
aachernyatin@aachernyatin:~$ git config --global core.autocrlf input  
aachernyatin@aachernyatin:~$ git config --global core.safecrlf warn  
aachernyatin@aachernyatin:~$
```

Рисунок 1: Параметры репозитория

2.2 Добавляем GPG ключ в аккаунт

```
aachernyatin@aachernyatin:~$  
aachernyatin@aachernyatin:~$ gpg --list-secret-keys --keyid-format LONG  
[keyboxd]  
-----  
sec    rsa4096/4B4D81845A52CB0A 2025-12-08 [SC]  
      1F14C4299F3F8A8FDA308C8E4B4D81845A52CB0A  
uid          [ultimate] aa-chertyanin <1132246223@pfur.ru>  
ssb    rsa4096/A57908019E911CC5 2025-12-08 [E]  
  
aachernyatin@aachernyatin:~$ gpg --armor --export 4B4D81845A52CB0A  
-----BEGIN PGP PUBLIC KEY BLOCK-----  
  
mQINBGk22lwBEADYkSHy43o8Lx5+cGmXpq0nsnIM7VE6IuDJPoLWyCsxfXLtgRJL  
gEDMMNNQuN0EvbcuIcNZ+nL983UrrNpJD3VrovFsd9if8rE2QedGM/Y3j4Su0K4  
tbR3ZT6cXnDzFV1So4jH4MvMRM1ZYgYECKADieAuIlPKNRRy1/j6mutx4L/Ynmra  
6UDE012440UWk/almAfMxmewVa1cM4owktAt3u1PZQTWYl6jEhekxwMjneDX6Xnb  
oTORqteWVMTG3y9vo4RFsFuvDWCoYUUzLugkvocZYU5XfKJcv8TVf+2KfdXbJC/6  
soRPAFFh9hV5nK02AJ/sS/99jbIoDhjdGNBtSsKVMJvM139BAiHPrkY2qXrN6EPE  
X/JKaQmWK4Vt6RX5VFipj54EKxPhdeEWsSXzvv6ysVPPLcStP1vSRBR7R1YHLMkl  
RpuoOdDrjcZFDj2XpWR1L052P1UE3Xa0TAhqD6frVIj1mOT1MozADaOQgbgrHJEK  
LHhWIvydunJ930vw18KSixzvBNcqFCGdJK83TKBgxWAlQ7Kx5hDcCq5RM5UdNMIO  
2bPvNIbL8jJx14NCu900IyicsCImTmbEc0R2SDrzBvnmrPJT34MeqtLVs6b5n3zs  
21jMYFRP+o2HzqK+QwXBPyS0ngH3e1z+WsDjrJSjml9I3t2+YLwve9cWVwARAQAB  
tCJhYS1jaGVydHlhbmLuIDwxMTMyMjQ2MjIzQHBmdXIucnU+iQJRBBMBCgA7FiEE  
HxTEKZ8/io/aMiyoS02BhfpSywoFAmk22lwCGwMFCwkIBwICIGfQoJCAscCBBYC
```

Рисунок 2: GPG ключ

2.3 Настройка gh

```
aachernyatin@aachernyatin:~$  
aachernyatin@aachernyatin:~$ 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/aachernyatin/.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: 5CCA-1D9B  
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/aachernyatin/.ssh/id_rsa.pub  
✓ Logged in as aa-chertyanin  
aachernyatin@aachernyatin:~$ █
```

Рисунок 3: Связь репозитория с аккаунтом

2.4 Подготовка репозитория

```
create mode 100644 project-personal/stage6/presentation/_assets/auto/beamer.el
create mode 100644 project-personal/stage6/presentation/_assets/beamer.tex
create mode 100644 project-personal/stage6/presentation/_quarto.yml
create mode 100644 project-personal/stage6/presentation/_resources/image/logo_rudn.png
create mode 100644 project-personal/stage6/presentation/image/kulyabov.jpg
create mode 100644 project-personal/stage6/presentation/os-intro--project-personal--stage6--presentation.qmd
create mode 100644 project-personal/stage6/report/.gitignore
create mode 100644 project-personal/stage6/report/.marksman.toml
create mode 100644 project-personal/stage6/report/.projectile
create mode 100644 project-personal/stage6/report/Makefile
create mode 100644 project-personal/stage6/report/_assets/preamble.tex
create mode 100644 project-personal/stage6/report/_quarto.yml
create mode 100644 project-personal/stage6/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 project-personal/stage6/report/bib/cite.bib
create mode 100644 project-personal/stage6/report/image/solvay.jpg
create mode 100644 project-personal/stage6/report/os-intro--project-personal--stage6--report.qmd
aachernyatin@aachernyatin:~/work/study/2025-2026/Операционные системы/os-intro$ git push
Enumerating objects: 106, done.
Counting objects: 100% (106/106), done.
Delta compression using up to 4 threads
Compressing objects: 100% (87/87), done.
Writing objects: 100% (103/103), 704.46 KiB | 4.96 MiB/s, done.
Total 103 (delta 42), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (42/42), completed with 1 local object.
To github.com:aa-chertyanin/os-intro.git
  2c4fe28..bbb0995  master -> master
aachernyatin@aachernyatin:~/work/study/2025-2026/Операционные системы/os-intro$
```

Рисунок 4: Подготовка репозитория

3. Выводы по проделанной работе

3.1 Вывод

Мы приобрели практические навыки работы с сервисом github.