

Управление версиями

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Цели и задачи работы

Цель лабораторной работы

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

Процесс выполнения лабораторной работы

Глобальные параметры репозитория

```
[igorstarshinov@fedora work]$  
[igorstarshinov@fedora work]$  
[igorstarshinov@fedora work]$ git config --global user.name "igorstarshinov"  
[igorstarshinov@fedora work]$ git config --global user.email "1132210584@pfur.ru"  
"  
[igorstarshinov@fedora work]$ git config --global core.quotepath false  
[igorstarshinov@fedora work]$ git config --global init.defaultBranch master  
[igorstarshinov@fedora work]$ git config --global core.autocrlf input  
[igorstarshinov@fedora work]$ git config --global core.safecrlf warn  
[igorstarshinov@fedora work]$
```

Рис. 1: Параметры репозитория

Добавляем GPG ключ в аккаунт


Go to your personal profile

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: +znL72UvEK/6xz22LCSxRC7/kTVh1jz+tt5Zj8u4BVU

Added on Nov 5, 2022

Last used within the last 4 months — Read/write

SSH


Delete

Check out our guide to [generating 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: 1132210584@pfur.ru

Key ID: 166E83814D523050

Subkeys: CF818D14543804F7

Added on Feb 13, 2023

GPG

Delete

Learn how to [generate a GPG key and add it to your account](#).

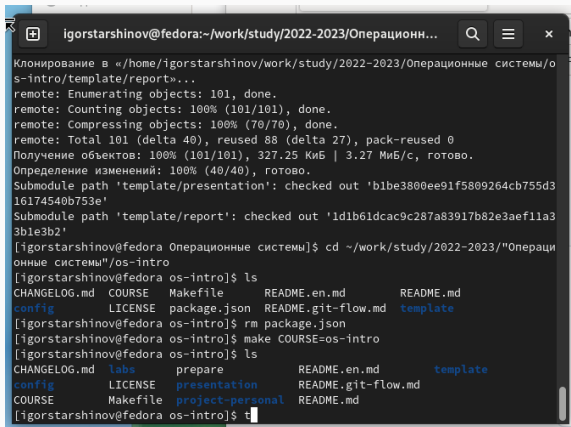
Рис. 2: GPG ключ

Настройка gh

```
[igorstarshinov@fedora work]$  
[igorstarshinov@fedora work]$ 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/igorstarshinov/.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: 6CD0-3A28  
Press Enter to open github.com in your browser...  
restorecon: SELinux: Could not get canonical path for /home/igorstarshinov/.mozilla/firefox/* restorecon: No such file or directory.  
[GFX1-]: glxtest: VA-API test failed: failed to initialise VA-API connection.  
✓ Authentication complete.  
- gh config set -h github.com git_protocol ssh  
✓ Configured git protocol  
✓ Uploaded the SSH key to your GitHub account: /home/igorstarshinov/.ssh/id_rsa.pub  
✓ Logged in as igorstarshinov  
[igorstarshinov@fedora work]$
```

Рис. 3: Связь репозитория с аккаунтом

Подготовка репозитория

A terminal window with a dark background and light text. The window title is "igorstarshinov@fedora:~/work/study/2022-2023/Операционн...". The terminal shows the output of a git clone command, followed by a cd command to enter the directory. Then, a ls command is used to list the files in the directory. The output of ls shows a directory listing with files like CHANGELOG.md, COURSE, Makefile, README.en.md, README.md, config, LICENSE, package.json, README.git-flow.md, and template. The terminal also shows the execution of rm package.json and make COURSE=os-intro. Finally, another ls command is used to list the files again, showing the updated directory structure.

```
igorstarshinov@fedora:~/work/study/2022-2023/Операционн...
Клонирование в «/home/igorstarshinov/work/study/2022-2023/Операционные системы/о
s-intro/template/report»...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (70/70), done.
remote: Total 101 (delta 40), reused 88 (delta 27), pack-reused 0
Получение объектов: 100% (101/101), 327.25 КиБ | 3.27 МиБ/с, готово.
Определение изменений: 100% (40/40), готово.
Submodule path 'template/presentation': checked out 'b1be3800ee91f5809264cb755d3
16174540b753e'
Submodule path 'template/report': checked out '1d1b61dcac9c287a83917b82e3aef11a3
3b1e3b2'
[igorstarshinov@fedora Операционные системы]$ cd ~/work/study/2022-2023/"Операци
онные системы"/os-intro
[igorstarshinov@fedora os-intro]$ ls
CHANGELOG.md  COURSE  Makefile  README.en.md  README.md
config        LICENSE package.json README.git-flow.md template
[igorstarshinov@fedora os-intro]$ rm package.json
[igorstarshinov@fedora os-intro]$ make COURSE=os-intro
[igorstarshinov@fedora os-intro]$ ls
CHANGELOG.md  labs  prepare  README.en.md  template
config        LICENSE presentation README.git-flow.md
COURSE        Makefile project-personal README.md
[igorstarshinov@fedora os-intro]$ t
```

Рис. 4: Подготовка репозитория

Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.