

Операционные системы

Управление версиями

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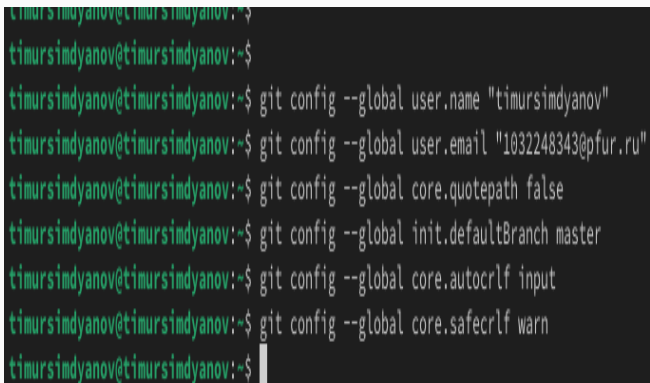
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Цели и задачи работы

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

Процесс выполнения лабораторной работы

Глобальные параметры репозитория

A terminal window with a dark background and green text. It shows a series of git configuration commands being entered at a shell prompt. The prompt is 'timursimdyanov@timursimdyanov:~\$'. The commands are: 'git config --global user.name "timursimdyanov"', 'git config --global user.email "1032248343@pfur.ru"', 'git config --global core.quotepath false', 'git config --global init.defaultBranch master', 'git config --global core.autocrlf input', and 'git config --global core.safecrlf warn'. The cursor is at the end of the last command.

```
timursimdyanov@timursimdyanov:~$  
timursimdyanov@timursimdyanov:~$  
timursimdyanov@timursimdyanov:~$ git config --global user.name "timursimdyanov"  
timursimdyanov@timursimdyanov:~$ git config --global user.email "1032248343@pfur.ru"  
timursimdyanov@timursimdyanov:~$ git config --global core.quotepath false  
timursimdyanov@timursimdyanov:~$ git config --global init.defaultBranch master  
timursimdyanov@timursimdyanov:~$ git config --global core.autocrlf input  
timursimdyanov@timursimdyanov:~$ git config --global core.safecrlf warn  
timursimdyanov@timursimdyanov:~$
```

Рис. 1: Параметры репозитория


Добавляем GPG ключ в аккаунт

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



SSH

Jiang
SHA256:8p0Sr0wW7b6+F171t4iIne14bz6Cjyo1MQnwYxKm8kE
Added on Mar 11, 2025
Never used — 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.



GPG

2
Email address: 1032234424@pfur.ru
Key ID: 58749FF9251A550E
Subkeys: 658EEBA5EE0B4FD3
Added on Sep 4, 2025

Delete

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

Рис. 2: GPG ключ

```
timursimdyanov@timursimdyanov: ~$ git config --global gpg.program $(which gpg)
timursimdyanov@timursimdyanov:~$
timursimdyanov@timursimdyanov:~$ 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/timursimdyanov/.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: 8E7F-7339
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/timursimdyanov/.ssh/id_rsa.pub
✓ Logged in as timursimdyanov
timursimdyanov@timursimdyanov:~$
timursimdyanov@timursimdyanov:~$
timursimdyanov@timursimdyanov:~$
timursimdyanov@timursimdyanov:~$
```

Рис. 3: Связь репозитория с аккаунтом

Подготовка репозитория

```
remote: compressing objects: 100% (141/141), done.  
remote: Total 207 (delta 92), reused 170 (delta 55), pack-reused 0 (from 0)  
Получение объектов: 100% (207/207), 760.70 КиБ | 4.32 МиБ/с, готово.  
Определение изменений: 100% (92/92), готово.  
Submodule path 'template/presentation': checked out '645759e4b104e93753637dedf8109adf24d071b7'  
Submodule path 'template/report': checked out 'cbca6e80e9c8e9b190a4bbbb8595f82335ae634a'  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы$  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы$ cd ~/work/study/2024-2025  
/"Операционные системы"/os-intro  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы/os-intro$ make COURSE=os-i  
ntro prepare  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы/os-intro$ rm package.json  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы/os-intro$ ls  
COURSE  LICENSE  prepare  project-personal  README.git-flow.md  template  
labs    Makefile  presentation  README.en.md      README.md  
timursimdyanov@timursimdyanov:~/work/study/2024-2025/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория

Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.