

Управление версиями

Тукаев Тимур Ильшатovich¹

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¹Российский Университет Дружбы Народов

Цели и задачи работы

Цель лабораторной работы

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

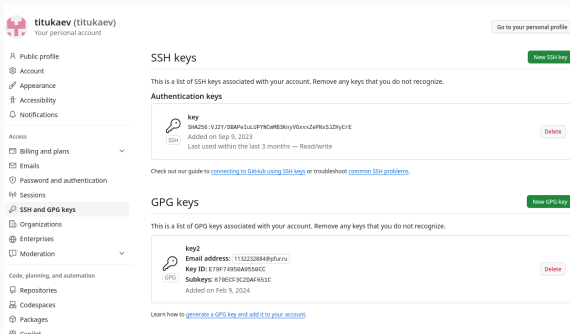
Процесс выполнения лабораторной работы

Глобальные параметры репозитория

```
ttukaev@ttukaev:~$ git config --global user.name "titukaev"  
ttukaev@ttukaev:~$ git config --global user.email "1132232884@pfur.ru"  
ttukaev@ttukaev:~$ git config --global core.quotePath false  
ttukaev@ttukaev:~$ git config --global init.defaultBranch master  
ttukaev@ttukaev:~$ git config --global core.autocrlf input  
ttukaev@ttukaev:~$ git config --global core.safecrlf warn  
ttukaev@ttukaev:~$  
ttukaev@ttukaev:~$
```

Рис. 1: Параметры репозитория

Добавляем GPG ключ в аккаунт



The screenshot shows the GitHub account settings for user 'titukaev (titukaev)'. The left sidebar contains navigation links: Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and plans, Emails, Password and authentication, Sessions, SSH and GPG keys (highlighted), Organizations, Enterprises, Moderation, Code, planning, and automation, Repositories, Codespaces, Packages, and Console. The main content area is divided into two sections: 'SSH keys' and 'GPG keys'. The 'SSH keys' section shows a single key named 'key' with a long alphanumeric string, added on Sep 9, 2023, and last used within the last 3 months. The 'GPG keys' section shows a single key named 'key2' with an email address, key ID, and subkeys, added on Feb 9, 2024. Both sections have a 'Delete' button and a 'New' button (labeled 'New SSH key' and 'New GPG key' respectively).

titukaev (titukaev)
Your personal account

Go to your personal profile

Public profile
Account
Appearance
Accessibility
Notifications

Access
Billing and plans
Emails
Password and authentication
Sessions
SSH and GPG keys
Organizations
Enterprises
Moderation

Code, planning, and automation
Repositories
Codespaces
Packages
Console

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

key
SHA256-VJ2YvQBAPuLcUPYnCafB30nyY6vxxZePlx5J2HyCrE
Added on Sep 9, 2023
Last used within the last 3 months — 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.

key2
Email address: 1132252884@yur.ru
Key ID: E7BF7495A0A950CC
Subkeys: 870ECF3C20AF651C
Added on Feb 9, 2024
Delete

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

Рис. 2: GPG ключ

Настройка gh

```
ttukaev@ttukaev:~$  
ttukaev@ttukaev:~$ gh auth login  
? What account do you want to log into? GitHub.com  
? What is your preferred protocol for Git operations on this host? SSH  
? Upload your SSH public key to your GitHub account? /home/ttukaev/.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: D36E-FAB5  
Press Enter to open github.com 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/ttukaev/.ssh/id_rsa.pub  
✓ Logged in as ttukaev  
ttukaev@ttukaev:~$ mkdir -p ~/work/study/2023-2024/"Операционные системы"  
ttukaev@ttukaev:~$ cd ~/work/study/2023-2024/"Операционные системы"  
ttukaev@ttukaev:~/work/study/2023-2024/Операционные системы$ gh repo create os-intro --template=yamadharma/  
course-directory-student-template --public  
✓ Created repository titukaev/os-intro on GitHub  
ttukaev@ttukaev:~/work/study/2023-2024/Операционные системы$
```

Рис. 3: Связь репозитория с аккаунтом

Подготовка репозитория

```
ttukaev@ttukaev: /work/study/2023-2024/Операционные системы/os-intro$  
ttukaev@ttukaev: /work/study/2023-2024/Операционные системы/os-intro$ rm package.json  
ttukaev@ttukaev: /work/study/2023-2024/Операционные системы/os-intro$ make COURSE=os-intro prepare  
ttukaev@ttukaev: /work/study/2023-2024/Операционные системы/os-intro$ ls  
CHANGELOG.md  COURSE  LICENSE  prepare  project-personal  README.git-flow.md  template  
config        labs    Makefile  presentation  README.en.md      README.md  
ttukaev@ttukaev: /work/study/2023-2024/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория

Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.