

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.

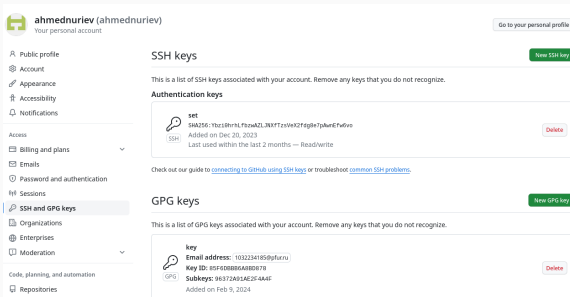
Процесс выполнения лабораторной работы

Глобальные параметры репозитория

```
ahmednuriev@ahmednuriev:~$ git config --global user.name "ahmednuriev"  
ahmednuriev@ahmednuriev:~$ git config --global user.email "1032234185@pfur.ru"  
ahmednuriev@ahmednuriev:~$ git config --global core.quotepath false  
ahmednuriev@ahmednuriev:~$ git config --global init.defaultBranch master  
ahmednuriev@ahmednuriev:~$ git config --global core.autocrlf input  
ahmednuriev@ahmednuriev:~$ git config --global core.safecrlf warn  
ahmednuriev@ahmednuriev:~$
```

Рис. 1: Параметры репозитория

Добавляем GPG ключ в аккаунт



The screenshot shows the GitHub account settings for user 'ahmednuriev'. 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, and Repositories. The main content area is divided into two sections: 'SSH keys' and 'GPG keys'. The 'SSH keys' section has a 'New SSH key' button and a list of authentication keys. One key is shown with a 'set' icon, a long alphanumeric string, and a 'Delete' button. The 'GPG keys' section has a 'New GPG key' button and a list of GPG keys. One key is shown with a 'key' icon, an email address, a key ID, a subkey, and a 'Delete' button.

ahmednuriev (ahmednuriev)
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

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

set
SHA256:Ybz18trnLfbzwAZLJNKXTTzVieK2FdgIe7pJwNEFwIvo
Added on Dec 20, 2023
Last used within the last 2 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.

key
Email address: 1032234185@pfur.ru
Key ID: 85F6DB806A80B0B78
Subkeys: 96372A91AE2C4A4F
Added on Feb 9, 2024
Delete

Рис. 2: GPG ключ

Настройка gh

```
ahmednuriev@ahmednuriev:~$ 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/ahmednuriev/.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: 707F-A7C4
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/ahmednuriev/.ssh/id_rsa.pub
✓ Logged in as ahmednuriev
ahmednuriev@ahmednuriev:~$
```

Рис. 3: Связь репозитория с аккаунтом

Подготовка репозитория

```
ahmednuriev@ahmednuriev:~/work/study/2023-2024/Операционные системы/os-intro$ rm package.json
ahmednuriev@ahmednuriev:~/work/study/2023-2024/Операционные системы/os-intro$ echo os-intro > COURSE
ahmednuriev@ahmednuriev:~/work/study/2023-2024/Операционные системы/os-intro$ make
Usage:
  make <target>

Targets:
  list           List of courses
  prepare        Generate directories structure
  submodule      Update submodules

ahmednuriev@ahmednuriev:~/work/study/2023-2024/Операционные системы/os-intro$ make prepare
ahmednuriev@ahmednuriev:~/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
ahmednuriev@ahmednuriev:~/work/study/2023-2024/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория

Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.