

# Операционные системы

Управление версиями

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## Цели и задачи работы

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

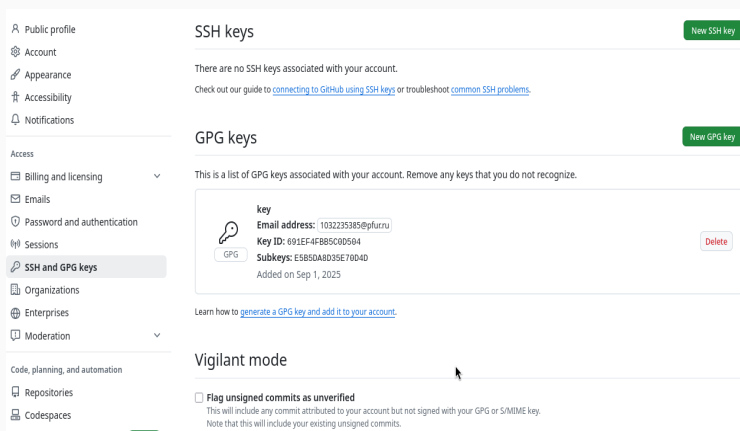
## Процесс выполнения лабораторной работы

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```
alisultani@alisultani:~$  
alisultani@alisultani:~$  
alisultani@alisultani:~$ git config --global user.name "ali-sultani-pfur"  
alisultani@alisultani:~$ git config --global user.email "1032235385@pfur.ru"  
alisultani@alisultani:~$ git config --global core.quotepath false  
alisultani@alisultani:~$ git config --global init.defaultBranch master  
alisultani@alisultani:~$ git config --global core.autocrlf input  
alisultani@alisultani:~$ git config --global core.safecrlf warn  
alisultani@alisultani:~$
```

Рис. 1: Параметры репозитория

# Добавляем GPG ключ в аккаунт



The screenshot shows the GitHub account settings page. On the left is a sidebar with navigation links: Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and licensing, Emails, Password and authentication, Sessions, SSH and GPG keys (highlighted), Organizations, Enterprises, Moderation, Code, planning, and automation, Repositories, and Codespaces. The main content area is titled 'SSH keys' and 'GPG keys'. The 'SSH keys' section has a 'New SSH key' button and states there are no SSH keys associated with the account. The 'GPG keys' section has a 'New GPG key' button and shows a list of GPG keys. One key is listed with details: key, Email address: 1032235385@pfurru, Key ID: 601EF4FB85C0D504, Subkeys: E5B5DA8D35E70D4D, Added on Sep 1, 2025. A 'Delete' button is next to the key. Below the key list is a link to learn how to generate a GPG key. The 'Vigilant mode' section is also visible, with a checkbox for 'Flag unsigned commits as unverified'.

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and licensing

Emails

Password and authentication

Sessions

**SSH and GPG keys**

Organizations

Enterprises

Moderation

Code, planning, and automation

Repositories

Codespaces

## SSH keys

New SSH key


There are no SSH keys associated with your account.

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:** 1032235385@pfurru

**Key ID:** 601EF4FB85C0D504

**Subkeys:** E5B5DA8D35E70D4D

Added on Sep 1, 2025

Delete

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

## Vigilant mode

☐ **Flag unsigned commits as unverified**

This will include any commit attributed to your account but not signed with your GPG or S/MIME key.  
Note that this will include your existing unsigned commits.

Рис. 2: GPG ключ

```
alisultani@alisultani:~$ 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/alisultani/.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: 914F-556E
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/alisultani/.ssh/id_rsa.pub
✓ Logged in as ali-sultani-pfur
alisultani@alisultani:~$
```

Рис. 3: Связь репозитория с аккаунтом

```
alisultani@alisultani:~/work/study/2024-2025/Операционные системы$  
alisultani@alisultani:~/work/study/2024-2025/Операционные си  
стемы/os-intro$  
alisultani@alisultani:~/work/study/2024-2025/Операционные системы/os-intro$ make COURSE=os-intro prepare  
alisultani@alisultani:~/work/study/2024-2025/Операционные системы/os-intro$ ls  
CHANGELOG.md  labs      Makefile    prepare     project-personal  README.git-flow.md  template  
COURSE        LICENSE  package.json  presentation  README.en.md      README.md  
alisultani@alisultani:~/work/study/2024-2025/Операционные системы/os-intro$ rm package.json  
alisultani@alisultani:~/work/study/2024-2025/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория



## Выводы по проделанной работе

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Мы приобрели практические навыки работы с сервисом github.