

# Управление версиями

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# Цели и задачи работы

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## Цель лабораторной работы

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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# Глобальные параметры репозитория

```
arvinmelkumyan@arvinmelkumyan: $  
arvinmelkumyan@arvinmelkumyan: $  
arvinmelkumyan@arvinmelkumyan: $ git config --global user.name "ArvinProg"  
arvinmelkumyan@arvinmelkumyan: $ git config --global user.email "arvin.melkumyan@mail.ru"  
arvinmelkumyan@arvinmelkumyan: $ git config --global core.quotePath false  
arvinmelkumyan@arvinmelkumyan: $ git config --global init.defaultBranch master  
arvinmelkumyan@arvinmelkumyan: $ git config --global core.autocrlf input  
arvinmelkumyan@arvinmelkumyan: $ git config --global core.safecrlf warn  
arvinmelkumyan@arvinmelkumyan: $
```

Рис. 1: Параметры репозитория

# Добавляем GPG ключ в аккаунт

The screenshot shows the GitHub account settings for 'ArvinProg (ArvinProg)'. 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 Copilot. The main content area is divided into two sections: 'SSH keys' and 'GPG keys'. The 'SSH keys' section shows a list of SSH keys associated with the account, with a 'New SSH key' button. The 'GPG keys' section shows a list of GPG keys associated with the account, with a 'New GPG key' button. The 'GPG keys' section is currently active, displaying a single GPG key for 'ArvinProg' with details: key ID, email address, and subkeys. A 'Delete' button is visible next to the key. Below the key list, there is a link to learn how to generate a GPG key and add it to the account. The bottom of the page shows the 'Vinilant mode' text.

ArvinProg (ArvinProg)  
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  
Copilot

### 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

Arvin Key  
SHA256:6HvCTuLu/vK2N0K8W7b59eyTFN002/mUvR2kLzPULfc  
Added on Nov 17, 2023  
Last used within the last 9 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: arvin.melkumyan@mail.ru  
Key ID: E782E1D80F23306E  
Subkeys: C242C2AD5745B217  
Added on Sep 1, 2024

Delete

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

Vinilant mode

Рис. 2: GPG ключ

# Настройка gh

```
arvinmelkumyan@arvinmelkumyan:~$  
arvinmelkumyan@arvinmelkumyan:~$ 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/arvinmelkumyan/.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: 9888-6287  
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/arvinmelkumyan/.ssh/id_rsa.pub  
✓ Logged in as ArvinProg  
arvinmelkumyan@arvinmelkumyan:~$
```

Рис. 3: Связь репозитория с аккаунтом

# Подготовка репозитория

```
create node 100644 project-personal/stage6/report/image/placing_800_600_tech.jpg
create node 100644 project-personal/stage6/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create node 100755 project-personal/stage6/report/pandoc/filters/pandoc_eqnos.py
create node 100755 project-personal/stage6/report/pandoc/filters/pandoc_fignos.py
create node 100755 project-personal/stage6/report/pandoc/filters/pandoc_secnos.py
create node 100755 project-personal/stage6/report/pandoc/filters/pandoc_tablenos.py
create node 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/___init__.py
create node 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/core.py
create node 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/main.py
create node 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/pandocattributes.py
create node 100644 project-personal/stage6/report/report.md
arvin@melkumyan@arvin@melkumyan: /work/study/2023-2024/Операционные системы/os-intro$ git push
Перечисление объектов: 38, готово.
Подсчет объектов: 100% (38/38), готово.
При сжатии изменений используется до 6 потоков
Сжатие объектов: 100% (38/38), готово.
Запись объектов: 100% (37/37), 342.14 Киб | 2.41 Миб/с, готово.
Total 37 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:ArvinProg/os-intro.git
 72b23dc..10b0fca master -> master
arvin@melkumyan@arvin@melkumyan: /work/study/2023-2024/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория



## **Выводы по проделанной работе**

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Мы приобрели практические навыки работы с сервисом github.