

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

```
avbalaganova@avbalaganova: $  
avbalaganova@avbalaganova: $ git config --global user.name "avbalaganova"  
avbalaganova@avbalaganova: $ git config --global user.email "1132236082@pfur.ru"  
avbalaganova@avbalaganova: $ git config --global core.quotepath false  
avbalaganova@avbalaganova: $ git config --global init.defaultBranch master  
avbalaganova@avbalaganova: $ git config --global core.autocrlf input  
avbalaganova@avbalaganova: $ git config --global core.safecrlf warn  
avbalaganova@avbalaganova: $
```

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 plans, Emails, Password and authentication, Sessions, SSH and GPG keys (highlighted), Organizations, Enterprises, and Moderation. Below these are links for Code, planning, and automation, Repositories, Codespaces, and Packages. 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 key icon, the label 'key', a long alphanumeric string, the date 'Added on Dec 24, 2023', and the permissions 'Last used within the last 9 months — Read/write'. A 'Delete' button is to the right. Below this is a link to a guide on connecting to GitHub using SSH keys. The 'GPG keys' section has a 'New GPG key' button and a list of GPG keys. One key is shown with a key icon, the label 'key', the email address '1132236082@yur.ru', the key ID '475E66A8B3B5A87', the subkey 'Subkeys: 8145834C14C16781', and the date 'Added on Aug 28, 2024'. A 'Delete' button is to the right. Below this is a link to a guide on generating a GPG key and adding it to the account.

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:vvY54QE/4zLC3BA1Weyrj5TAuHrCVI+7kgHmTr/A
Added on Dec 24, 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: 1132236082@yur.ru
Key ID: 475E66A8B3B5A87
Subkeys: 8145834C14C16781
Added on Aug 28, 2024 Delete

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

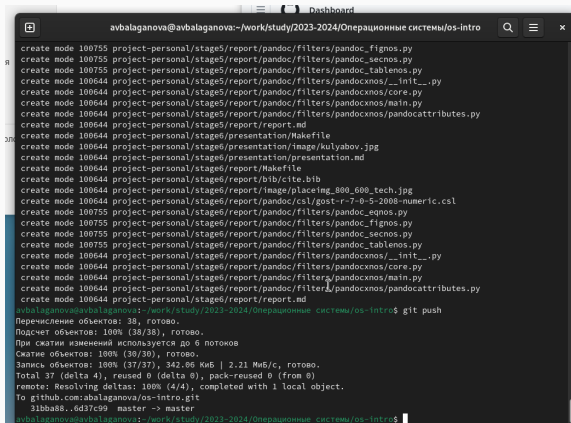
Рис. 2: GPG ключ

Настройка gh

```
avbalaganova@avbalaganova:~$  
avbalaganova@avbalaganova:~$ 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/avbalaganova/.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: 7770-4037  
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/avbalaganova/.ssh/id_rsa.pub  
✓ Logged in as abalaganova  
avbalaganova@avbalaganova:~$
```

Рис. 3: Связь репозитория с аккаунтом

Подготовка репозитория



```
avbalaganova@avbalaganova:~/work/study/2023-2024/Операционные системы/os-intro$ git push
create mode 100755 project-personal/stage5/report/pandoc/filters/pandoc_fignos.py
create mode 100755 project-personal/stage5/report/pandoc/filters/pandoc_secnos.py
create mode 100755 project-personal/stage5/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandocxnos/_init_.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandocxnos/core.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandocxnos/main.py
create mode 100644 project-personal/stage5/report/pandoc/filters/pandocxnos/pandocatattributes.py
create mode 100644 project-personal/stage5/report/report.md
create mode 100644 project-personal/stage6/presentation/Makefile
create mode 100644 project-personal/stage6/presentation/image/kulyabov.jpg
create mode 100644 project-personal/stage6/presentation/presentation.md
create mode 100644 project-personal/stage6/report/Makefile
create mode 100644 project-personal/stage6/report/bib/cite.bib
create mode 100644 project-personal/stage6/report/image/placeimg_800_600_tech.jpg
create mode 100644 project-personal/stage6/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc_fignos.py
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc_secnos.py
create mode 100755 project-personal/stage6/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/_init_.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/core.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/main.py
create mode 100644 project-personal/stage6/report/pandoc/filters/pandocxnos/pandocatattributes.py
create mode 100644 project-personal/stage6/report/report.md
avbalaganova@avbalaganova:~/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), 342.06 Киб | 2.21 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:avbalaganova/os-intro.git
  31bba88..6d37c99  master -> master
avbalaganova@avbalaganova:~/work/study/2023-2024/Операционные системы/os-intro$
```

Рис. 4: Подготовка репозитория

Выводы по проделанной работе

Мы приобрели практические навыки работы с сервисом github.