

# **Отчёт по лабораторной работе №2**

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# 1 Цель работы

Целью работы является изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

## 2 Выполнение работы

```
liveuser@localhost-live:~$ git config --global user.name "Артём Петлин"
liveuser@localhost-live:~$ git config --global user.email "<1132246846@pfur.ru>"
```

Сначала сделаем предварительную конфигурацию git. Открываем терминал и вводим следующие команды, указав имя и email владельца репозитория.

```
liveuser@localhost-live:~$ git config --global core.quotepath false
```

Настраиваем utf-8 в выводе сообщений git.

```
liveuser@localhost-live:~$ git config --global init.defaultBranch master
```

Задаем имя начальной ветки (будем называть её master).

```
liveuser@localhost-live:~$ git config --global core.autocrlf input
```

Параметр autocrlf.

```
liveuser@localhost-live:~$ git config --global core.safecrlf warn
```

Параметр safecrlf

```
liveuser@localhost-live:~$ ssh-keygen -C "Артём Петлин <1132246846@pfur.ru>"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/liveuser/.ssh/id_ed25519):
/home/liveuser/.ssh/id_ed25519 already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/liveuser/.ssh/id_ed25519
Your public key has been saved in /home/liveuser/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:TKn04nKwBKaViB8NGp/qPxIzFlAhk2b2kg0vqM5BApU Артём Петлин <1132246846@pfur.ru>
The key's randomart image is:
+--[ED25519 256]--+
|o++o              |
|=BE               |
|O==              o|
|BB*+.            +|
|*+=.             .S|
|++              o  |
|=.=o.            o  |
|==o.             .  |
|  o+o            |
+-----[SHA256]-----+
```


Для последующей идентификации пользователя на сервере репозитория необходимо сгенерировать пару ключей (приватный и открытый).

```
liveuser@localhost-live:~$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIOE1L2akWZuewy17NXnaU0zXDmEFRD5GeFg45LixTYT Артём Петлин <1132246846@pfur.ru>
```

### SSH keys

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

**Authentication keys**

Title	Added on	Never used	Read/write	Delete
 SHA256:TKn04nKwBKaViB8NGp/qPxIzFlAhk2b2kg0vqM5BApU Added on Oct 13, 2024 Never used — Read/write				<a href="#">Delete</a>

Скопировав из локальной консоли ключ в буфер обмена, вставляем ключ в появившееся на сайте поле и указываем для ключа имя (Title).

```
liveuser@localhost-live:~$ mkdir -p ~/work/study/2023-2024/"Архитектура компьютера"
```

Создаём каталог для предмета «Архитектура компьютера».

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (\*).

### Repository template

 yamadharm/course-directory-student-template ▾

Start your repository with a template repository's contents.

☐ Include all branches

Copy all branches from yamadharm/course-directory-student-template and not just the default branch.

Owner \*

 travesa ▾

Repository name \*

/ study\_2023-2024\_arh-pc

✓ Your new repository will be created as study\_2023-2024\_arh-pc.

The repository name can only contain ASCII letters, digits, and the characters ., -, and \_.

Great repository names are short and memorable. Need inspiration? How about [ideal-adventure](#) ?

Description (optional)

☒ Public



Anyone on the internet can see this repository. You choose who can commit.

☐ Private



You choose who can see and commit to this repository.

ⓘ You are creating a public repository in your personal account.

Create repository

Создаем репозиторий по шаблону.

```
liveuser@localhost-live:~$ cd ~/work/study/2023-2024/Архитектура\ компьютера/  
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера$
```

В терминале переходим в каталог курса.



```
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера$ git clone --recursive git@github.com:travesa/study_2023-2024_arch-pc.git arch-pc
Cloning into 'arch-pc'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 1396 (33/33), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 33 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (33/33), 18.82 KiB | 4.78 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/home/liveuser/work/study/2023-2024/Архитектура компьютера/arch-pc/template/presentation'...
remote: Enumerating objects: 111, done.
remote: Counting objects: 1396 (111/111), done.
remote: Compressing objects: 100% (77/77), done.
remote: Total 111 (delta 42), reused 100 (delta 31), pack-reused 0 (from 0)
Receiving objects: 100% (111/111), 102.17 KiB | 887.00 KiB/s, done.
Resolving deltas: 100% (42/42), done.
Cloning into '/home/liveuser/work/study/2023-2024/Архитектура компьютера/arch-pc/template/report'...
remote: Enumerating objects: 142, done.
remote: Counting objects: 1396 (142/142), done.
remote: Compressing objects: 100% (97/97), done.
remote: Total 142 (delta 60), reused 121 (delta 39), pack-reused 0 (from 0)
Receiving objects: 100% (142/142), 341.09 KiB | 1.71 MiB/s, done.
Resolving deltas: 100% (60/60), done.
Submodule path 'template/presentation': checked out 'c5b2c12b6b2d431adb508b9e72a02bd2fca3da5'
Submodule path 'template/report': checked out 'c26e22effe7b3e8695767d82ef581ab185f5c748'
```

клонировем созданный репозиторий.

```
liveuser@localhost-live:~$ cd ~/work/study/2023-2024/"Архитектура компьютера"/arch-pc\
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ rm package.json
```

Переходим в каталог курса и удаляем лишние файлы.

```
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ make list
net-admin: Администрирование локальных сетей
net-os-admin: Администрирование сетевых подсистем
arch-pc: Архитектура 386
sciprog-intro: Введение в научное программирование
infosec: Информационная безопасность
computer-practice: Компьютерный практикум по статистическому анализу данных
mathsec: Математические основы защиты информации и информационной безопасности
mathmod: Математическое моделирование
simulation-networks: Моделирование сетей передачи данных
sciprog: Научное программирование
os-intro: Операционные системы
os2: Основы администрирования операционных систем
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ make prepare
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ make submodule
git submodule update --init --recursive
git submodule foreach 'git fetch origin; git checkout $(git rev-parse --abbrev-ref HEAD); git reset --hard origin/$$(git rev-parse --abbrev-ref HEAD); git submodule update --recursive; git clean -dfx'
Entering 'template/presentation'
HEAD is now at c9d712 Merge branch 'release/1.0.4'
Entering 'template/report'
HEAD is now at c3622b Merge branch 'release/1.0.5'
```

Создаем необходимые каталоги.

```

liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ git add .
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ git commit -am 'feat(main): make course structure'
[master 33fd161] feat(main): make course structure
223 files changed, 53681 insertions(+), 14 deletions(-)
create mode 100644 labs/README.md
create mode 100644 labs/README.ru.md
create mode 100644 labs/lab01/presentation/.projectile
create mode 100644 labs/lab01/presentation/.texlabroot
create mode 100644 labs/lab01/presentation/Makefile
create mode 100644 labs/lab01/presentation/image/kulyabov.jpg
create mode 100644 labs/lab01/presentation/presentation.md
create mode 100644 labs/lab01/report/Makefile
create mode 100644 labs/lab01/report/bib/cite.bib
create mode 100644 labs/lab01/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab01/report/pandoc/csl/gost-r-7-8-5-2008-numeric.csl
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab01/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab01/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab01/report/report.md
create mode 100644 labs/lab02/presentation/.projectile
create mode 100644 labs/lab02/presentation/.texlabroot
create mode 100644 labs/lab02/presentation/Makefile
create mode 100644 labs/lab02/presentation/image/kulyabov.jpg
create mode 100644 labs/lab02/presentation/presentation.md
create mode 100644 labs/lab02/report/Makefile
create mode 100644 labs/lab02/report/bib/cite.bib
create mode 100644 labs/lab02/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab02/report/pandoc/csl/gost-r-7-8-5-2008-numeric.csl
create mode 100755 labs/lab02/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab02/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab02/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab02/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab02/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab02/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab02/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab02/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab02/report/report.md
create mode 100644 labs/lab03/presentation/.projectile
create mode 100644 labs/lab03/presentation/.texlabroot
create mode 100644 labs/lab03/presentation/Makefile
create mode 100644 labs/lab03/presentation/image/kulyabov.jpg
create mode 100644 labs/lab03/presentation/presentation.md

```

```
create mode 100644 labs/lab03/report/Makefile
create mode 100644 labs/lab03/report/bib/cite.bib
create mode 100644 labs/lab03/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab03/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab03/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab03/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab03/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab03/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab03/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab03/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab03/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab03/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab03/report/report.md
create mode 100644 labs/lab04/presentation/.projectile
create mode 100644 labs/lab04/presentation/.texlabroot
create mode 100644 labs/lab04/presentation/Makefile
create mode 100644 labs/lab04/presentation/image/kulyabov.jpg
create mode 100644 labs/lab04/presentation/presentation.md
create mode 100644 labs/lab04/report/Makefile
create mode 100644 labs/lab04/report/bib/cite.bib
create mode 100644 labs/lab04/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab04/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab04/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab04/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab04/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab04/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab04/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab04/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab04/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab04/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab04/report/report.md
create mode 100644 labs/lab05/presentation/.projectile
create mode 100644 labs/lab05/presentation/.texlabroot
create mode 100644 labs/lab05/presentation/Makefile
create mode 100644 labs/lab05/presentation/image/kulyabov.jpg
create mode 100644 labs/lab05/presentation/presentation.md
create mode 100644 labs/lab05/report/Makefile
create mode 100644 labs/lab05/report/bib/cite.bib
create mode 100644 labs/lab05/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab05/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab05/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab05/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab05/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab05/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab05/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab05/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab05/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab05/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab05/report/report.md
```

```
create mode 100644 labs/lab06/presentation/.projectile
create mode 100644 labs/lab06/presentation/.texlabroot
create mode 100644 labs/lab06/presentation/Makefile
create mode 100644 labs/lab06/presentation/image/kulyabov.jpg
create mode 100644 labs/lab06/presentation/presentation.md
create mode 100644 labs/lab06/report/Makefile
create mode 100644 labs/lab06/report/bib/cite.bib
create mode 100644 labs/lab06/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab06/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab06/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab06/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab06/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab06/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab06/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab06/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab06/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab06/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab06/report/report.md
create mode 100644 labs/lab07/presentation/.projectile
create mode 100644 labs/lab07/presentation/.texlabroot
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create mode 100755 labs/lab11/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab11/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab11/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 labs/lab11/report/report.md
delete mode 100644 package.json
create mode 100644 prepare
create mode 100644 presentation/README.md
create mode 100644 presentation/README.ru.md
create mode 100644 presentation/presentation/.projectile
create mode 100644 presentation/presentation/.texlabroot
create mode 100644 presentation/presentation/Makefile
create mode 100644 presentation/presentation/image/kulyabov.jpg
create mode 100644 presentation/presentation/presentation.md
create mode 100644 presentation/report/Makefile
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create mode 100644 presentation/report/image/placeimg_800_600_tech.jpg
create mode 100644 presentation/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 presentation/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_fignos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_secnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/core.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/main.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 presentation/report/report.md
liveuser@localhost-live:~/work/study/2023-2024/Архитектура компьютера/arch-pc$ git push
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 6 threads
Compressing objects: 100% (29/29), done.
Writing objects: 100% (35/35), 341.42 KiB | 2.51 MiB/s, done.
Total 35 (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:travesa/study_2023-2024_arh-pc.git
   ab295e1..33fd161  master -> master

```

Отправляем файлы на сервер.

## 3 Задание для самостоятельной работы

1.

```
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ touch ~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report/_001_Петлин_отчет.txt
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ ls
001_image Makefile pandas report.md _002_Петлин_отчет.txt
```

Создаем отчет по выполнению лабораторной работы в соответствующем каталоге рабочего пространства (labs>lab02>report).

2.

```
liveuser@localhost:live:~$ cd Downloads/
liveuser@localhost:live:~/Downloads$ ls
_001_Петлин_отчет.pdf
liveuser@localhost:live:~/Downloads$ sudo cp _001_Петлин_отчет.pdf ~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report/
liveuser@localhost:live:~/Downloads$ cd ~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report/
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ ls
001_image Makefile pandas report.md _001_Петлин_отчет.pdf
```

Копируем отчеты по выполнению предыдущих лабораторных работ в соответствующие каталоги созданного рабочего пространства.

```
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ git add .
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ git commit -m "feat(main): make course structure"
[master 5983fbb] feat(main): make course structure
1 file changed, 6 insertions(+), 6 deletions(-)
create mode 100644 labs/lab01/report/_001_Петлин_отчет.pdf
liveuser@localhost:live:~/work/study/2023-2024/Архитектура компьютера/arch-pc/labs/lab01/report$ git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 6 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 735.22 KiB | 5.00 MiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To github.com:travesh/study_2023_2024_arch_pc.git
33fd161..5983fbb master -> master
```

Артём Петлин feat(main): make course structure

5983fbb · 1 minute ago

History

Name	Last commit message	Last commit date
..		
bib	feat(main): make course structure	19 minutes ago
image	feat(main): make course structure	19 minutes ago
pandoc	feat(main): make course structure	19 minutes ago
Makefile	feat(main): make course structure	19 minutes ago
report.md	feat(main): make course structure	19 minutes ago
ЛО1_Петлин_отчет.pdf	feat(main): make course structure	1 minute ago

Загружаем файлы на github.

### Вывод:

Мы изучили идеологию и применение средств контроля версий. Мы приобрели практические навыки по работе с системой git.