

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ЛАБОРАТОРНАЯ РАБОТА №2

дисциплина: *Операционные системы*

Студент: Арсоева Залина

Группа: НБИбд-01-21

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Цель работы

Целью данной работы является изучение идеологии и применение средств контроля версий.

Создаем учётную запись на <https://github.com>.

The screenshot shows a GitHub profile page for a user named ArsoevaZalina. The profile picture is a circular avatar with a purple T-shirt on a light gray background. To the right of the avatar is a navigation bar with tabs: Overview (selected), Repositories (2), Projects, Packages, and Stars. Below the navigation bar, the 'Popular repositories' section displays two repositories: 'study_2022-2023_arh-pc-' and 'study_2022-2023_os-intro', both marked as 'Public' and associated with the 'TeX' organization. Below this, the '15 contributions in the last year' section features a calendar grid showing contributions from December to November. The grid indicates contributions on specific days, with a legend at the bottom right showing 'Less' and 'More' contribution counts. At the bottom, the 'Contribution activity' section shows a timeline for 'December 2022' and a blue button for the year '2022'.

Overview Repositories 2 Projects Packages Stars

Popular repositories

study_2022-2023_arh-pc- Public TeX

study_2022-2023_os-intro Public TeX

Customize your pins

ArsoevaZalina

Edit profile

15 contributions in the last year

Contribution settings

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov

Mon

Wed

Fri

Learn how we count contributions

Less More

Contribution activity

December 2022

2022

Настраиваем систему контроля версий git

Установка git-flow в Fedora Linux

```
[zalinaarsoeva@fedora ~]$ cd /tmp
[zalinaarsoeva@fedora tmp]$ wget --no-check-certificate -q https://raw.githubusercontent.com/petervanderdoes/gitflow/develop/contrib/gitflow-installer.sh
bash: /gitflow/develop/contrib/gitflow-installer.sh: Нет такого файла или каталога
[zalinaarsoeva@fedora tmp]$ chmod +x gitflow-installer.sh
chmod: невозможно получить доступ к 'gitflow-installer.sh': Нет такого файла или каталога
[zalinaarsoeva@fedora tmp]$ wget --no-check-certificate -q http://raw.githubusercontent.com/petervanderdoes/gitflow/develop/contrib/gitflow-installer.sh
[zalinaarsoeva@fedora tmp]$ chmod +x gitflow-installer.sh
[zalinaarsoeva@fedora tmp]$ sudo ./gitflow-installer.sh install stable

[sudo] пароль для zalinaarsoeva:
### git-flow no-make installer ###
Installing git-flow to /usr/local/bin
Cloning repo from GitHub to gitflow
Клонирование в «gitflow»...
remote: Enumerating objects: 4270, done.
remote: Total 4270 (delta 0), reused 0 (delta 0), pack-reused 4270
Получение объектов: 100% (4270/4270), 1.74 МБ | 2.28 МБ/с, готово.
Определение изменений: 100% (2533/2533), готово.
Уже обновлено.
branch 'master' set up to track 'origin/master'.
Переключено на новую ветку «master»
install: создание каталога '/usr/local/share/doc'
install: создание каталога '/usr/local/share/doc/gitflow'
install: создание каталога '/usr/local/share/doc/gitflow/hooks'
'gitflow/git-flow' -> '/usr/local/bin/git-flow'
'gitflow/git-flow-init' -> '/usr/local/bin/git-flow-init'
'gitflow/git-flow-feature' -> '/usr/local/bin/git-flow-feature'
'gitflow/git-flow-bugfix' -> '/usr/local/bin/git-flow-bugfix'
'gitflow/git-flow-hotfix' -> '/usr/local/bin/git-flow-hotfix'
'gitflow/git-flow-release' -> '/usr/local/bin/git-flow-release'
'gitflow/git-flow-support' -> '/usr/local/bin/git-flow-support'
'gitflow/git-flow-version' -> '/usr/local/bin/git-flow-version'
'gitflow/gitflow-common' -> '/usr/local/bin/gitflow-common'
'gitflow/gitflow-shFlags' -> '/usr/local/bin/gitflow-shFlags'
'gitflow/git-flow-config' -> '/usr/local/bin/git-flow-config'
'gitflow/hooks/filter-flow-hotfix-finish-tag-message' -> '/usr/local/share/doc/gitflow/hooks/filter-flow-hotfix-finish-tag-message'
'gitflow/hooks/filter-flow-hotfix-start-version' -> '/usr/local/share/doc/gitflow/hooks/filter-flow-hotfix-start-version'
'gitflow/hooks/filter-flow-release-branch-tag-message' -> '/usr/local/share/doc/gitflow/hooks/filter-flow-release-branch-tag-message'
'gitflow/hooks/filter-flow-release-finish-tag-message' -> '/usr/local/share/doc/gitflow/hooks/filter-flow-release-finish-tag-message'
'gitflow/hooks/filter-flow-release-start-version' -> '/usr/local/share/doc/gitflow/hooks/filter-flow-release-start-version'
'gitflow/hooks/post-flow-bugfix-delete' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-delete'
'gitflow/hooks/post-flow-bugfix-finish' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-finish'
'gitflow/hooks/post-flow-bugfix-publish' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-publish'
'gitflow/hooks/post-flow-bugfix-pull' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-pull'
'gitflow/hooks/post-flow-bugfix-start' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-start'
'gitflow/hooks/post-flow-bugfix-track' -> '/usr/local/share/doc/gitflow/hooks/post-flow-bugfix-track'
'gitflow/hooks/post-flow-feature-delete' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-delete'
'gitflow/hooks/post-flow-feature-finish' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-finish'
'gitflow/hooks/post-flow-feature-publish' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-publish'
'gitflow/hooks/post-flow-feature-pull' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-pull'
'gitflow/hooks/post-flow-feature-start' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-start'
'gitflow/hooks/post-flow-feature-track' -> '/usr/local/share/doc/gitflow/hooks/post-flow-feature-track'
'gitflow/hooks/post-flow-hotfix-delete' -> '/usr/local/share/doc/gitflow/hooks/post-flow-hotfix-delete'
```

Задам имя и email владельца репозитория:

```
[zalinaarsoeva@fedora tmp]$ git config --global user.name ArsoevaZalina
[zalinaarsoeva@fedora tmp]$ git config --global user.email zaliarsoeva@yandex.ru
[zalinaarsoeva@fedora tmp]$ git config --global core.quotepath false
[zalinaarsoeva@fedora tmp]$ git config --global init.defaultBranch master
[zalinaarsoeva@fedora tmp]$ git config --global core.autocrlf input
[zalinaarsoeva@fedora tmp]$ git config --global core.safecrlf warn
```

Создаю ключи pgp

```
[zalinaarsoeva@fedora tmp]$ gpg --full-generate-key
gpg (GnuPG) 2.3.4; Copyright (C) 2021 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

gpg: создан каталог '/home/zalinaarsoeva/.gnupg'
gpg: создан цит с ключами '/home/zalinaarsoeva/.gnupg/pubring.kbx'
Выберите тип ключа:
  (1) RSA and RSA
  (2) DSA and Elgamal
  (3) DSA (sign only)
  (4) RSA (sign only)
  (9) ECC (sign and encrypt) *default*
 (10) ECC (только для подписи)
 (14) Existing key from card
Ваш выбор? 1
длина ключей RSA может быть от 1024 до 4096.
Какой размер ключа Вам необходим? (3072) 4096
Запрошенный размер ключа - 4096 бит
Выберите срок действия ключа.
  0 = не ограничен
  <n> = срок действия ключа - n дней
  <n>w = срок действия ключа - n недель
  <n>m = срок действия ключа - n месяцев
  <n>y = срок действия ключа - n лет
Срок действия ключа? (0) 0
Срок действия ключа не ограничен
Все верно? (y/N) Y

GnuPG должен составить идентификатор пользователя для идентификации ключа.

Ваше полное имя: Zali
Имя не должно быть короче 5 символов
Ваше полное имя: Zalina
Адрес электронной почты: zaliarsoeva@yandex.ru
Примечание:
Вы выбрали следующий идентификатор пользователя:
"Zalina <zaliarsoeva@yandex.ru>"
```

Добавление PGP ключа в GitHub

GPG keys

[New GPG key](#)

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

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GPG
Email address: zaliarsoeva@yandex.ru
Key ID: A311FB33AA9847EC
Subkeys: F62CEC80F70D9C52
Added on Dec 5, 2022

[Delete](#)

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

Создание репозитория курса на основе шаблона

```
mkdir -p ~/work/study/2021-2022/"Операционные системы"  
cd ~/work/study/2021-2022/"Операционные системы"  
gh repo create study_2021-2022_os-intro  
  ↳ --template=yamadharm/course-directory-student-template --public  
git clone --recursive  
  ↳ git@github.com:<owner>/study_2021-2022_os-intro.git os-intro
```

Настройка каталога курса
Перехожу в каталог курса:
Удалю лишние файлы:
Создам необходимые каталоги:
Отправляю файлы на сервер:

```
cd ~/work/study/2021-2022/"Операционные системы"/os-intro
```

Удалите лишние файлы:

```
rm package.json
```

Создайте необходимые каталоги:

```
make COURSE=os-intro
```

Отправьте файлы на сервер:

```
git add .  
git commit -am 'feat(main): make course structure'  
git push
```


Вывод:

Я изучила идеологию и применение контроля версий.