Лабораторная работа 1

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Цели и задачи работы —

Цель лабораторной работы

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

Задачи лабораторной работы

- 1. Создать учетную запись на github.com
- 2. Настроить репозиторий
- 3. Изучить механизм управления версиями

Процесс выполнения лабораторной работы

Создаем учетную запись на github.com и репозиторий

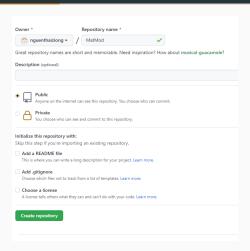


Figure 1: Создание репозитория

Инициализируем локальный репозиторий

Figure 2: Инициализация репозитория

Создаем SSH-ключ

```
C:\MatMod> git init
Initialized empty Git repository in C:/MatMod/.git/
PS C:\MatMod> echo "# лабораторные работы" >> README.md
     \MatMod> git add README_md
  C:\MatMod> git config --global user.name nguenthaiziong
 S C:\MatMod> git config --global user.email "1032185981@pfur.ru"
S C:\MatMod> git commit -m "first commit
[master (root-commit) e0f0614] first commit
1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\MatWods ssh-keygen -C "nguenthaiziong 1032185981@pfur.ru"
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\User/.ssh/id_rsa):
reated directory 'C:\Users\User/.ssh'.
inter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\User/.ssh/id_rsa.
Your public key has been saved in C:\Users\User/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:JYdkĭLAvQX+YfvTH5tFtklc8on7HMlPBfiXhkYTcYz4 nguenthaiziong 1032185981@pfur.ru
The key's randomart image is:
 ---[RSA 2048]----+
   0 + 0 0 0 00=+
 S C:\MatMod> cat ~/.ssh/id rsa.pub
sh-rsa AAAAB3NzaClyc2EAAAADAOABAAABAOC4yN1JTyrRNclWLRMPHrZoSZYSROexnD5KSdKzNgmfmyGcM6oTEZLYAE
ls/flp3kAapicwjyZKwG0+f6HiPMymk7Bj4aIOZOpdZaJfRmIz1mHJD4fXiBw6PyLITa/MkKSdOGR4ZTOEJtHbnZSESdCJ
pbnsFznHhavwki2kMJogbxvw+0K5n3E0]DfmGtroG46]Za+Bx/fnLH9/+/Egkx1SvM0waMg9LT7ZJid98iwbKZ1Rsotiy
:GV090/7Bn1FawL/aEexzZpR7aA0Y50P0UQaWN6k16GBKQyeKUcbSkiyeAxHWqjKkcuYt2WDGtnbB5z3oAbZveA2quq63;
gxRl nguenthaiziong 1032185981@pfur.ru
 S C:\MatMod> AC
   C:\MatMod> _
```

Figure 3: Создание SSH-ключа

Создаем SSH-ключ

NewKey
ey
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC4YNUTvrRNc1WLR MPHrZoSZYSRQexnD5KSdKzNqmfmvGcM6oTEZLYAFIS/F1P3k AqplCwlyZKWGO+f6HjPMvmk7B1AqiOZOpdZqifRmlz1mHJD4 KYBW6FvLTG/MkKsdOGR4ZT0EHthonZ5E5dCipDnSf2NHhav Wki2KMJoqbxxw+QK5N3EQIDfmGtroG46iZa+Bx/fNLH9/+/Eg Kxl5vM0xaMg9LT7Zid98jwbKZiRsoqlyFCGV090/7BnlFawL/aE exz2pR7aAOY5OPOUQaWN6k16GBKQyeKUcbSkiyeAxHWqiKk culYl2WDGtnbB5z3oAbZveA2gug53pyxR1 qquenthatiziong

Figure 4: Добавление ключа на github.com

Загружаем служебные файлы

```
os ci. Vastatos oit remote add origin git@github.com:nguenthaiziong/MatMod.git
PS ci. Vastatod
Pa ci. Vastatod
PS ci. Vastatod
Pa ci. Vastatod
PS ci. Vastatod
```

Figure 5: Загрузка файлов лицензии и gitignore

Использование системы управления версиями

```
PS C:\MatMod> git flow init
Which branch should be used for bringing forth production releases?
Branch name for production releases: [master]
Branch name for "next release" development: [develop]
How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] v
Hooks and filters directory? [C:/MatMod/.git/hooks]
PS C:\MatMod> git branch
PS C:\MatMod> git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'
Summary of actions:
 A new branch 'release/1.0.0' was created, based on 'develop'
You are now on branch 'release/1.0.0'
Follow-up actions:
  Bump the version number now!
  Start committing last-minute fixes in preparing your release
  When done, run:
     git flow release finish '1.0.0'
PS C:\MatMod> echo "1.0.0" >> version
PS C:\MatMod> git add
PS C:\MatMod> git commit -am "main: add version"
[release/1.0.0 e9a593d] main: add version
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 version
PS C:\MatMod> git flow release finish -m "ver 1" 1.0.0
```

Figure 6: Инициализация git-flow и создание релиза

Использование системы управления версиями

```
PS C: WhatMook git push all tenumerating objects: 6 done.

Counting objects: 100% (6/6), done.

Counting objects: 100% (6/6), done.

Compressing objects: 100% (4/4), done.

WhatMook objects: 100% (4/4), done.

WhatMook objects: 100% (4/4), posk-reused 0

remote: Resolving deltas: 100% (3/3), completed with 1 local object.

To github. Counting objects: 100% (3/3), completed with 1 local object.

To github. Counting objects: 100% (3/3), completed with 1 local object.

To github. Counting objects: 100% (1/1), done.

WhatMook objects: 100% (1/1), 160 bytes | 164.00 KiB/s, done.

Total (461et 0), reused 0 (delta 0), pack-reused 0

Total (461et 0), reused 0 (delta 0), pack-reused 0

Total (461et 0), reused 0 (delta 0), pack-reused 0

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Total (461et 0), reused 0 (delta 0), pack-reused 0

Total (461et 0), reused 0 (delta 0), pack-reused 0

Total (461et 0), reused 0 (delta 0), pack-reused 0
```

Figure 7: Отправка изменений в сетевой репозиторий

Выводы по проделанной работе

Вывод

Мы приобрели практические навыки работы с системой контроля версий git и создали свой репозиторий