Лабораторная работа № 2

git

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Цели и задачи

- Изучить идеологию и применение средств контроля версий.
- Освоить умения по работе с git.

Установка git

```
[lchileshe@lchileshe -]$ sudo dnf install git
[sudo] password for lchileshe:
Last metadata expiration check: 3:45:10 ago on Thu 29 Feb 2024 05:56:48
PN MSK.
Package git-2.44.0-1.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[lchileshe@lchileshe -]$
```

Рис. 1: git

Установка gh

dnf install gh

```
[Ichileshe@lchileshe -]$ sudo dnf install gh
Last metadata expiration check: 3:45:56 ago on Thu 29 Feb 2024 85:56:48
PN MSK.
Dependencies resolved.
                ......
Package
         Architecture Version
                                                       Size
                                         Repository
______
Installing:
         x86_64 2.43.1-1.fc39
                                                       9.1 N
                                         updates
Transaction Summary
Install 1 Package
Total download size: 9.1 N
Installed size: 46 N
Is this ok [y/N]: y
Downloading Packages:
ah-2.43.1-1.fc39.x86.64.rpn 3.4 MB/s | 9.1 MB
                                                   00:02
Total
                                 2.3 MB/s | 9.1 NB
                                                   08:03
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
 Installing
              : ah-2.43.1-1.fc39.x86.64
```

Базовая настройка git

Установка имени и адреса электронной почты владельца репозитория

```
[lchileshe@lchileshe ~]$ git config --global user.name "LupupaChileshe"
[lchileshe@lchileshe ~]$ git config --global user.email 'vchileshe988@gn
ail.com"
```

Hacтроим utf-8 в выводе сообщений git

```
[lchileshe@lchileshe ~]$ git config --global core.quotepath false
[lchileshe@lchileshe ~]$ git config --global core.quotepath false
[lchileshe@lchileshe ~]$ git config --global core.autocrlf input
[lchileshe@lchileshe ~]$ git config --global core.safecrlf warn
[lchileshe@lchileshe ~]$ []
```

Рис. 3: utf-8

Создание ssh-ключей

по алгоритму rsa с ключём размером 4096 бит:

ssh-keygen -t rsa -b 4096

```
[lchileshe@lchileshe ~]$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/lchileshe/.ssh/id_rsa):
Created directory '/home/lchileshe/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/lchileshe/.ssh/id_rsa
Your public key has been saved in /home/lchileshe/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:1FBjXpstv60YX2A51fkMuUYA8TWpRFk8rkF69K1kA8o lchileshe@lchileshe
The key's randomart image is:
+--- [RSA 4896]----+
         =.+=*++.1
        ...0*=+*+.1
        .E . B*++.1
         S +==+ 01
            .00 . ]
           00.
           0.0
```

по алгоритму ed25519:

ssh-keygen -t ed25519

```
[lchileshe@lchileshe ~]$ ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/lchileshe/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/lchileshe/.ssh/id_ed25519
Your public key has been saved in /home/lchileshe/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256: BsLzgmpJVT09R4MVc@iKBwNphP3htD8ujIu80941fYk lchileshe@lchileshe
The key's randomart image is:
+-- [ED25519 2561--+
   +00*. +=0.
  - = 0*0.40
   . .B. +00 .
   .. B.o .
  .. . o S
1.+ oo.E.o
0.+..0...
1.=00. .
+----[SHA256]----+
```

Настройка автоматических

подписей коммитов git

использование введенного адреса электронной почты для указания Git

```
[lchileshe@lchileshe ~]$ git config --global user.signingkey vchilehe98
80gmail.com
(Ichileshe@lchileshe -|S git config --global commit.gpgsign true
[lchileshe@lchileshe ~]$ git config --global gpg.program $(which gpg2)
[Ichileshe@lchileshe -| s 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/lchileshe/.ss
? Title for your SSH key: GitHub CLI
 How would you like to authenticate GitHub CLI? Login with a web browse
 First copy your one-time code: 4124-3F4F
Press Enter to open github.com in your browser...
 Authentication complete.
 ah config set -h github.com git protocol ssh
 Configured git protocol
 Uploaded the SSH key to your GitHub account: /home/lchileshe/.ssh/id_r
sa.pub
 Logged in as LupupaChileshe
[lchileshe@lchileshe ~ls [
```

Сознание репозитория курса на

основе шаблона

Сознание репозитория курса на основе шаблона

```
[Ichileshe@lchileshe OnepauxonHuse cucremul$ git clone --recursive git@github.com:
LupupaChileshe/study_2023-2024_os-intro.git os-intr
Cloning into 'os-intr'...
remote: Enumerating objects: 32, done.
remote: Counting objects: 100% (32/32), done.
remote: Compressing objects: 100% (31/31), done.
remote: Total 32 (delta 1), reused 18 (delta 0), pack-reused 0
Receiving objects: 180% (32/32), 18.60 KiB | 3.72 NiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yanadharma/academic-present
ation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yanadharna/academic-laboratory-re
port-template.git) registered for path 'template/report'
Cloning into '/home/lchileshe/work/study/2023-2024/Onepaumonnue cucremu/os-intr/t
emplate/presentation'...
remote: Enumerating objects: 95, done.
remote: Counting objects: 100% (95/95), done.
remote: Compressing objects: 100% (67/67), done.
remote: Total 95 (delta 34), reused 87 (delta 26), pack-reused 0
Receiving objects: 180% (95/95), 96.99 K1B | 928.88 K1B/s, done.
Resolving deltas: 100% (34/34), done.
Cloning into '/home/lchileshe/work/study/2023-2024/Oперационные системы/os-intr/t
emplate/report'...
remote: Enumerating objects: 126, done.
remote: Counting objects: 100% (126/126), done.
remote: Compressing objects: 100% (87/87), done.
remote: Total 126 (delta 52), reused 108 (delta 34), pack-reused 8
Receiving objects: 100% (126/126), 335.80 KiB | 1.53 NiB/s, done.
```

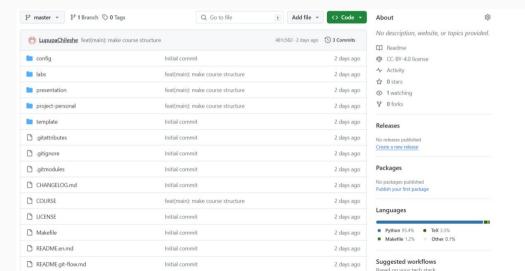
Настройка каталога курса

```
[Ichileshe@lchileshe Oперационные системы]$ cd os-intr
[1chileshe@lchileshe os-intr]$ 1s
CHANGELOG and LICENSE README en md
                                            template
config
            Makefile README.git-flow.md
COURSE
            package. ison README. md
[lchileshe@lchileshe os-intr]s rm package.ison
[1chileshe@lchileshe os-intr]$ 1s
CHANGELOG.md LICENSE README.git-flow.md
config Makefile README.md
COURSE
            READNE.en.md template
[1chileshe@lchileshe os-intrl$ echo os-intro > COURSE
[lchileshe@lchileshe os-intr]$ make
Usage:
 make <target>
Targets:
                               List of courses
                               Generate directories structur
                               Update submules
```

Рис. 7: каталога курса

Загрузка файлов на сервер

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



%

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