0.1 Front matter

title: " №2" subtitle: " "w author: " "

0.2 Bibliography

bibliography: bib/cite.bib csl: pandoc/csl/gost-r-7-0-5-2008-numeric.csl

0.3 Pdf output format

toc: true # Table of contents toc-depth: 2 lof: true # List of figures lot: true # List of tables fontsize: 12pt linestretch: 1.5 papersize: a4 documentclass: screprt ## I18n polyglossia polyglossia-lang: name: russian options: - spelling=modern - babelshorthands=true polyglossia-otherlangs: name: english ## I18n babel babel-lang: russian babel-otherlangs: english

1

– ,
git.

2

1. git
2. SSH
3. GPG
4. Git
5. GitHub
6. .

3

3.1

git gh : dnf install git dnf
install gh (. 1).

3.2 git

email , (. 2).

utf-8 git (. 3).

```
[eakiseleva1@eakiseleva ~]$ sudo -i
[root@eakiseleva ~]# dnf -y install git
Обновление и загрузка репозиториев:
 Fedora 41 - x86_64 - Updates          100% |  32.9 KiB/s |  25.9 KiB |  00m01s
 Fedora 41 - x86_64 - Updates          100% |   2.6 MiB/s |   2.7 MiB |  00m01s
Репозитории загружены.
Пакет "git-2.48.1-1.fc41.x86_64" уже установлен.

Нечего делать.
[root@eakiseleva ~]# dnf -y install gh
Обновление и загрузка репозиториев:
Репозитории загружены.
Пакет            Арх.   Версия                   Репозиторий      Размер
Установка:
 gh              x86_64 2.65.0-1.fc41            updates          42.6 MiB

Сводка транзакции:
 Установка:          1 пакета

Общий размер входящих пакетов составляет 10 MiB. Необходимо загрузить 10 MiB.
После этой операции будут использоваться дополнительные 43 MiB (установка 43 MiB, уда
ление 0 B).
[1/1] gh-0:2.65.0-1.fc41.x86_64        100% |   6.5 MiB/s |  10.3 MiB |  00m02s
--------------------------------------------------------------------------------
[1/1] Total                           100% |   4.5 MiB/s |  10.3 MiB |  00m02s
```

Figure 1:   git   gh


```
[root@eakiseleva ~]# git config --global user.name "Liza kiseleva"
[root@eakiseleva ~]# git config --global user.email "lk3093398@gmail.com"
```

Figure 2:   email


```
[root@eakiseleva ~]# git config --global core.quotepath false
[root@eakiseleva ~]#
```

Figure 3:   utf-8   git

2

master (. 4).


```
[root@eakiseleva ~]# git config --global init.defaultBranch master
[root@eakiseleva ~]#
```

Figure 4:

autocrlf   safecrlf   (. 5).


```
[root@eakiseleva ~]# git config --global core.autocrlf input
[root@eakiseleva ~]# git config --global core.safecrlf warn
[root@eakiseleva ~]#
```

Figure 5:   autocrlf   safecrlf

3.3   SSH

ssh   4096   rsa (. 6).


```
[root@eakiseleva ~]# ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase for "/root/.ssh/id_rsa" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:fPiYn/SRNQueEI51sWlsCcVUS3V9JpOy4r4X0U/zbH8 root@eakiseleva
The key's randomart image is:
+---[RSA 4096]----+
|        .++.oo+|
|         oo*+.=|
|        o O+.+.|
|     . =.=o ...|
|      S.+...o+o|
|       =.o.= o=|
|       o.o =....|
|        o.o.. E|
|        +o.   .|
+----[SHA256]-----+
[root@eakiseleva ~]#
```

Figure 6:   ssh   rsa

ssh   ed25519 (. 7).

3.4   GPG

GPG,   RSA and RSA,   : 4096,
               .   (. 8).

3

```
[root@eakiseleva ~]# ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/root/.ssh/id_ed25519):
Enter passphrase for "/root/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_ed25519
Your public key has been saved in /root/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:ErgYoKJdhola6OQUEbtBYTXTGoCCpakYs45aj5HJmPg root@eakiseleva
The key's randomart image is:
+--[ED25519 256]--+
|+XB+.            |
|B*o+oo           |
|@== *  .         |
|@*o* . .         |
|*+o . . S        |
|++ o   .         |
|=.*              |
|.o +             |
|. E .            |
+----[SHA256]-----+
[root@eakiseleva ~]#
```

Figure 7:   ssh   ed25519


```
[root@eakiseleva ~]# gpg --list-secret-keys --keyid-format LONG
gpg: проверка таблицы доверия
gpg: marginals needed: 3  completes needed: 1  trust model: pgp
gpg: глубина: 0  достоверных:   1  подписанных:   0  доверие: 0-, 0q, 0n, 0m, 0f, 1u
[keyboxd]
---------
sec   rsa4096/51C58C4712275F18 2025-03-06 [SC]
      2374A25E5C2BD28432BC06C851C58C4712275F18
uid           [ абсолютно ] Liza kiseleva <lk3093398@gmail.com>
ssb   rsa4096/A27F39CBC58C3614 2025-03-06 [E]
```

Figure 8:

4

3.5   GPG   Github

                                  ,   (
               ,   ,   ),   ,
(. 9).

Figure 9:

"New GPG key"   (. 10).

Figure 10:   PGP

3.6   Git

                      git: email,   git
           (. 11).

Figure 11:   Git

3.7   gh

       gh,   ,   (.
12).

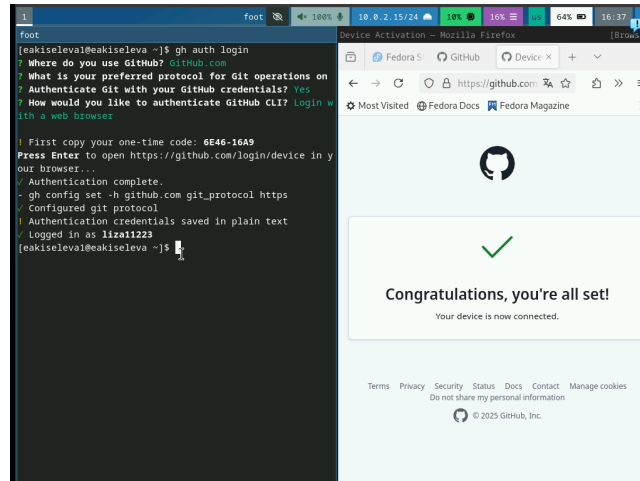Figure 12:   gh

3.8

                 mkdir   -p,   .
           cd   "   ".
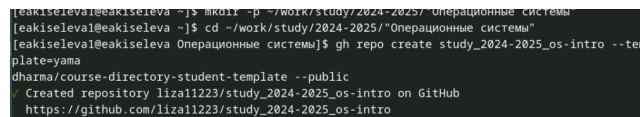   gh repo create study_2022-2023_os-intro –template yamadharma/course-directory-student-trmplate –public,   .
              ,   https,   ssh,
gh   https (. 13).

Figure 13:

             cd,   ls.
   rm,   makefile (. 14).
           (   )   git add
   git commit (. 15).

Figure 14:

Figure 15:

4

,
git.

5 .

1.   (VCS) -   .
,   ,
.   ,   ,
-               . . VCS   :   ,
,   ,   .

2.   –   ,   ,   ,
. commit –   ,   .   –
/   .   –
,   ,   .

3.   VCS (: CVS, TFS, AccuRev) –   .
,   ,
.   VCS (: Git, Bazaar) –
(   ),
.   ,   (   )

7

.

4.   ,
    .

5.   ,
    ,   .
    .   .

6.   ,   .

7.   : git init   (   )
        : git pull   : git
push   : git status   : git
diff   :   /   /   : git add
.   /   /   : git add   _
  /   (/   ):
git rm   _   :
  : git commit -am '   ,
      : git commit   ,   : git checkout -b
  _   : git checkout   _   (,
     ,   )
     : git push origin   _   : git merge
–no-ff _   :   : git branch -d
 _   : git branch -D   _
   : git push origin : _

8. git push -all   ,
      .

9.   -   ,   ,   .
    , ...

10.   ,   .   ,
   .   .gitignore
    .

1.   № 2 [   ] URL: https://esystem.rudn.ru/mod/page/view.php?id=970819