

Структура научной презентации

Простейший шаблон

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Вводная часть

- Нам нужно освоить базовые навыки в использовании системы контроля версий git, а также заняться ее установкой

Содержание исследования

- Наша задача создать репозиторий на github
- и всё необходимое

Зайдем на официальный сайт Github и пройдем все этапы регистрации

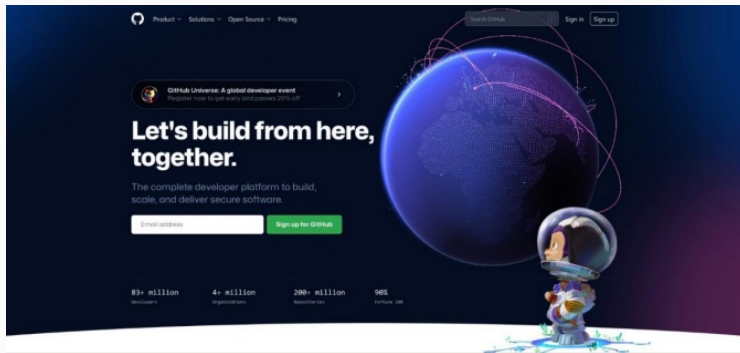
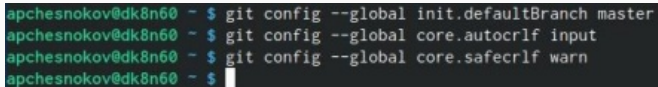


Рис. 1: Зайшли на сайт

занимаемся настройкой целостной системы через командную строку

A terminal window with a dark background and green text. It shows four lines of commands being entered at a prompt. The first three lines are successful configuration commands for git, and the fourth line is an empty prompt with a cursor.

```
apchesnokov@dk8n60 ~ $ git config --global init.defaultBranch master
apchesnokov@dk8n60 ~ $ git config --global core.autocrlf input
apchesnokov@dk8n60 ~ $ git config --global core.safecrlf warn
apchesnokov@dk8n60 ~ $
```

Рис. 2: Работа с командной строкой

Создаем SSH ключ для дальнейшей работы на Github

```
apchesnokov@dk8n60 ~ $ ssh-keygen -C "Sinabon2004 cesnokovartemij059@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/afs/.dk.sci.pfu.edu.ru/home/a/p/apchesnokov/.ssh/id_rsa):
Created directory '/afs/.dk.sci.pfu.edu.ru/home/a/p/apchesnokov/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match. Try again.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /afs/.dk.sci.pfu.edu.ru/home/a/p/apchesnokov/.ssh/id_rsa
Your public key has been saved in /afs/.dk.sci.pfu.edu.ru/home/a/p/apchesnokov/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:APW8MwM9JdCyJgSq/70RZTyCnmR3pcZHuikQ8zA/ys Sinabon2004 cesnokovartemij059@gmail.com
The key's randomart image is:
+----[RSA 3072]-----+
| .  . =oo .          |
| o  =oB. =.o         |
| o ooBoBo+ =         |
| .. ..0=+ B          |
| .   ..Os            |
| .   +.*             |
| .   o..             |
| o  .E..             |
| .   ..              |
+----[SHA256]-----+
apchesnokov@dk8n60 ~ $
```

Рис. 3: Выполняем указанные команды

Вставляем ключ в Github

сюда мы вставляем ключ

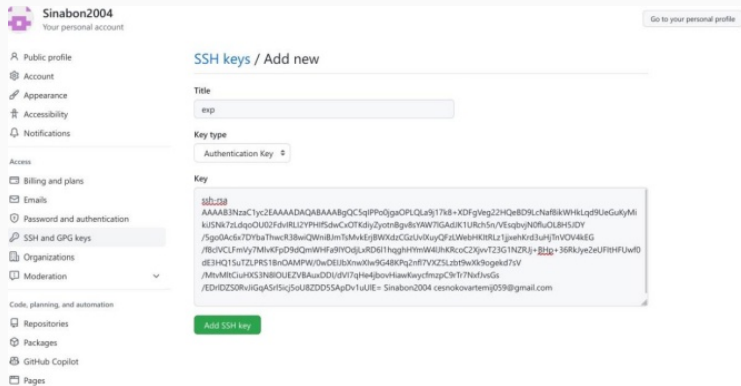


Рис. 4: так это выглядит

Создаем PGP ключ

теперь создадим PGP ключ, который тоже необходим для дальнейшей работы

```
File Actions Edit View Help
(3) DSA (sign only)
(4) RSA (sign only)
(14) Existing key from card
Your selection? 1
RSA keys may be between 1024 and 4096 bits long.
What keysize do you want? (3072) 4096
Requested keysize is 4096 bits
Please specify how long the key should be valid.
    0 = key does not expire
    <n> = key expires in n days
    <n>w = key expires in n weeks
    <n>m = key expires in n months
    <n>y = key expires in n years
Key is valid for? (0) 0
Key does not expire at all
Is this correct? (y/N) y

GnuPG needs to construct a user ID to identify your key.

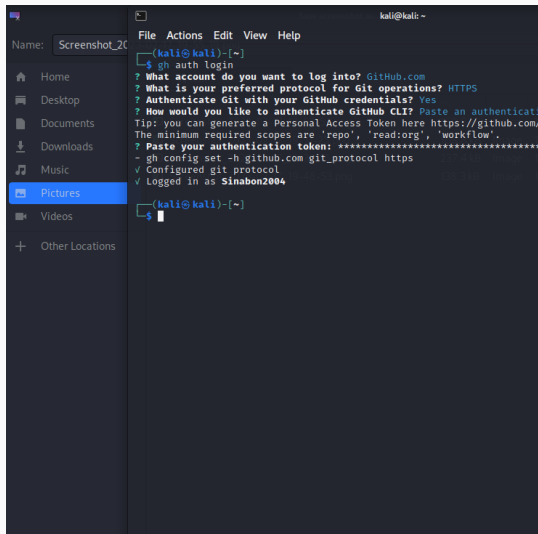
Real name: apchesnokov
Email address: cesnokovartemij059@gmail.com
Comment:
You selected this USER-ID:
    "apchesnokov <cesnokovartemij059@gmail.com>"

Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? O
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
gpg: directory '/home/kali/.gnupg/openpgp-revocs.d' created
gpg: revocation certificate stored as '/home/kali/.gnupg/openpgp-revocs.d/D10937B29413A
public and secret key created and signed.

pub   rsa4096 2023-02-18 [SC]
      D10937B29413A4E7D14850A68B644F659DA5A259
uid   apchesnokov, cesnokovartemij059@gmail.com
```

Авторизируемся в gh по командной строке

создаем возможность полноценного взаимодействия с репозитории



```
kali@kali: ~  
File Actions Edit View Help  
~(kali@kali)-[~]  
$ gh auth login  
? What account do you want to log into? GitHub.com  
? What is your preferred protocol for Git operations? HTTPS  
? Authenticate Git with your GitHub credentials? Yes  
? How would you like to authenticate GitHub CLI? Paste an authentication token  
Tip: you can generate a Personal Access Token here https://github.com/settings/tokens  
The minimum required scopes are 'repo', 'read:org', 'workflow'.  
? Paste your authentication token: *****  
- gh config set -h github.com git_protocol https  
✓ Configured git protocol  
✓ Logged in as Sinabon2004  
~(kali@kali)-[~]  
$
```

Создаем репозиторий курса на основе шаблона

Парой простых движений создаем репозиторий

```
(kali@kali)-[~]
$ cd ~/work/study/2022-2023/"Операционные системы"/os-intro
cd: no such file or directory: /home/kali/work/study/2022-2023/Операционные системы/os-

(kali@kali)-[~]
$ gh repo create study_2022-2023_os-intro --template=yamadharma/course-directory-stud
late --public
GraphQL: Could not clone: Name already exists on this account (cloneTemplateRepository)

(kali@kali)-[~]
$ git clone --recursive git@github.com:Sinabon2004/study_2022-2023_os-intro.git os-in
Cloning into 'os-intro' ...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (26/26), done.
remote: Total 27 (delta 1), reused 11 (delta 0), pack-reused 0
Receiving objects: 100% (27/27), 16.93 KiB | 788.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-
-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-t
git) registered for path 'template/report'
Cloning into '/home/kali/os-intro/template/presentation' ...
remote: Enumerating objects: 82, done.
remote: Counting objects: 100% (82/82), done.
remote: Compressing objects: 100% (57/57), done.
remote: Total 82 (delta 28), reused 77 (delta 23), pack-reused 0
Receiving objects: 100% (82/82), 92.90 KiB | 1.21 MiB/s, done.
Resolving deltas: 100% (28/28), done.
Cloning into '/home/kali/os-intro/template/report' ...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (70/70), done.
remote: Total 101 (delta 40), reused 88 (delta 27), pack-reused 0
```

Настраиваем каталог курса

настраиваем каталог курса

```
(kali㉿kali)-[~/work/study/2022-2023/Операционные системы]
$ cd ~/work/study/2022-2023/"Операционные системы"/os-intro

(kali㉿kali)-[~/../study/2022-2023/Операционные системы/os-intro]
$ rm package.json

(kali㉿kali)-[~/../study/2022-2023/Операционные системы/os-intro]
$ echo os-intro > COURSE

(kali㉿kali)-[~/../study/2022-2023/Операционные системы/os-intro]
$ make

(kali㉿kali)-[~/../study/2022-2023/Операционные системы/os-intro]
$ git add .

(kali㉿kali)-[~/../study/2022-2023/Операционные системы/os-intro]
$ git commit -am 'feat(main): make course structure'
[master 2ceb8d2] feat(main): make course structure
361 files changed, 100327 insertions(+), 14 deletions(-)
create mode 100644 labs/README.md
create mode 100644 labs/README.ru.md
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-7-0-5-2008-numeric.csl
create mode 100755 labs/lab01/report/pandoc/filters/pandoc-escape.ru
```

- Таким образом, мы научились пользоваться системой контроля версий git
- системой контроля версий git