

Laboratory work No. 5

Customizing the working environment

Karpova E.A.

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Peoples' Friendship University of Russia, Moscow, Russia

Information

Speaker

- Karpova Esenia Alexkseevna
- Student NKAbd-02-23
- Faculty of Physics and Mathematics
- PFUR
- 1132236008@pfur.ru
- <https://github.com/eakarpova>



Introductory part

- Every programmer needs the skill to customize the working environment

- Purpose of the work

Acquire the skill to customize the working environment

- Tasks
 1. Install the pass password manager
 2. Manage configuration files

Execution of laboratory work

Installing the password manager pass

- Configuring gpg keys - view keys

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ gpg --list-secret-keys  
/home/eakarpova/.gnupg/pubring.kbx  
-----  
sec    rsa4096 2024-02-20 [SC]  
        3E36E96920F5CC3E1E9B888C44E6287B3A52DCCC  
uid          [ultimate] esenia (pelmeni) <1132236008@pfur.ru>  
ssb    rsa4096 2024-02-20 [E]
```

- Storage initialization

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~$ pass init 1132236008@pfur.ru  
mkdir: created directory '/home/eakarpova/.password-store/'  
Password store initialized for 1132236008@pfur.ru
```


Customizing the interface with the browser

- Adding a new password

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/password-store$ pass insert .password-store/README
mkdir: created directory '/home/eakarpova/.password-store/.password-store'
Enter password for .password-store/README:
Retype password for .password-store/README:
[master 0b90122] Add given password for .password-store/README to store.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .password-store/README.gpg
```

- Replacing an existing password

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/password-store$ pass generate --in-place .password-store/README
[master cee2997] Replace generated password for .password-store/README.
1 file changed, 0 insertions(+), 0 deletions(-)
The generated password for .password-store/README is:
EgS*1cQ`V0wU90F+C%ay!:'\V
```

- Installation of additional software

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/.password-store$ sudo apt -y install light \
fuzzel \
swaylock \
kitty \
waybar swaybg \
wl-clipboard \
mpv \
grim \
slurp
Чтение списков пакетов... Готово
Построение дерева зависимостей... Готово
Чтение информации о состоянии... Готово
Уже установлен пакет wl-clipboard самой новой версии (2.2.0-1).
wl-clipboard помечен как установленный вручную.
Будут установлены следующие дополнительные пакеты:
kitty-doc kitty-shell-integration kitty-terminfo libatkmm-1.6-1v5 libcairomm-1.0-1v5
libdate-tz3 libfcft4 libfmt9 libglibmm-2.4-1v5 libatk-laver-shell0 libatkmm-3.0-1v5
```

- Installing a binary that detects the processor architecture and operating system and downloads the required file

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/.password-store$ sh -c "$(wget -qO- chezmoi.io/get
```

Configuration file management

- Creating your own repository using template-based configuration file utilities

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/password-store$ gh repo create dotfiles --template="yamadharma/dotfiles-template" --private
✓ Created repository eakarpova/dotfiles on GitHub
```

- Connecting a repository to your system: initializing chezmoi with dotfiles repository

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/password-store$ sudo snap install chezmoi --classic
chezmoi 2.47.1 from Tom Payne (twpayne) installed
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/password-store$ chezmoi init git@github.com:eakarpova/dotfiles.git
Cloning into '/home/eakarpova/.local/share/chezmoi'...
Enter passphrase for key '/home/eakarpova/.ssh/id_rsa':
remote: Enumerating objects: 100, done.
remote: Counting objects: 100% (100/100), done.
remote: Compressing objects: 100% (87/87), done.
remote: Total 100 (delta 0), reused 99 (delta 0), pack-reused 0
Receiving objects: 100% (100/100), 77.86 KiB | 95.00 KiB/s, done.
```

Code for html format

- I retrieve the latest changes from the repository and apply them first with a single command, then in stages

```
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/.password-store$ chezmoi update
Enter passphrase for key '/home/eakarpova/.ssh/id_rsa':
Already up to date.
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/.password-store$ chezmoi git pull -- --autostash --
rebase && chezmoi diff
Enter passphrase for key '/home/eakarpova/.ssh/id_rsa':
Already up to date.
eakarpova@eakarpova-Redmi-Book-Pro-14-2022:~/.password-store$ chezmoi apply
```

- Enable automatic commit and send of repository changes

```
GNU nano 7.2 /home/eakarpova/.config/chezmoi/chezmoi.toml
[data]
  email = "1132236008@pfur.ru"

[git]
  autoCommit = true
  autoPush = true
```

Results

In the course of the laboratory work I acquired the skill of customizing the working environment