

Лабораторная работа №5

Настройка рабочей среды

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1 Цель работы

Настроить рабочую среду.

2 Задание

- Настройка с помощью менеджера паролей pass.
- Настройка интерфейса с браузером.
- Использовать chezmoi в настройке.

3 Выполнение лабораторной работы

1. Установка pass командами `dnf install pass pass-otp` и `dnf install gopass` под суперпользователем (рис. 3.1).

```
[3/7] Installing qrencode-0:4.1.1-8.fc41.x8 100% | 1.4 MiB/s | 42.6 KiB | 00m00s
[4/7] Installing pass-0:1.7.4-11.fc41.noarc 100% | 5.7 MiB/s | 134.1 KiB | 00m00s
[5/7] Installing liboath-0:2.6.12-1.fc41.x8 100% | 12.1 MiB/s | 99.0 KiB | 00m00s
[6/7] Installing oathtool-0:2.6.12-1.fc41.x 100% | 8.8 MiB/s | 99.2 KiB | 00m00s
[7/7] Installing pass-otp-0:1.2.0-15.fc41.n 100% | 72.9 KiB/s | 60.3 KiB | 00m01s
Complete!
yapolyakova1@yapolyakova1:~$ sudo dnf install gopass[]
```

Рис. 3.1: Установка pass

2. Смотрим список ключей и инициализируем хранилище (рис. 3.2)

```
yapolyakova1@yapolyakova1:~$ gpg --list-secret-keys
gpg: checking the trustdb
gpg: marginals needed: 3 completes needed: 1 trust model: pgp
gpg: depth: 0 valid: 1 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 1u
[keyboard]
-----
sec   rsa4096 2025-03-14 [SC]
      EA3623FB4969E42F5345558AC44E23D507ACB2C1
uid           [ultimate] JuliaMaffin123 <yulya.polyakova.07@mail.ru>
ssb   rsa4096 2025-03-14 [E]

yapolyakova1@yapolyakova1:~$ pass init EA3623FB4969E42F5345558AC44E23D507ACB2C1
mkdir: created directory '/home/yapolyakova1/.password-store/'
Password store initialized for EA3623FB4969E42F5345558AC44E23D507ACB2C1
```

Рис. 3.2: Список ключей и хранилище

3. Создадим структуру git (рис. 3.3)

```

yapolyakoval@yapolyakoval:~$ pass git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/yapolyakoval/.password-store/.git/
[master (root-commit) 2c0b2bd] Add current contents of password store.
Committer: yapolyakoval <yapolyakoval@yapolyakoval.yapolyakoval.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 .gpg-id
[master 42e6603] Configure git repository for gpg file diff.
Committer: yapolyakoval <yapolyakoval@yapolyakoval.yapolyakoval.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 .gitattributes

```

Рис. 3.3: Структура git

4. Задаем адрес репозитория (заранее созданного) на хостинге и выполняем синхронизацию (рис. 3.4)

```

yapolyakoval@yapolyakoval:~/.password-store$ pass git remote add master git@github.com:JuliaMaffin123/git-new.git
yapolyakoval@yapolyakoval:~/.password-store$ pass git pull master
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 867 bytes | 867.00 KiB/s, done.
From github.com:JuliaMaffin123/git-new
 * [new branch]      main      -> master/main
You asked to pull from the remote 'master', but did not specify
a branch. Because this is not the default configured remote
for your current branch, you must specify a branch on the command line.

```

Рис. 3.4: Адрес репозитория на хостинге

5. Завершаем синхронизацию (рис. 3.5)


```
yapolyakoval@yapolyakoval:~/password-store$ pass git push --set-upstream master master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 513 bytes | 513.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/JuliaMaffin123/git-new/pull/new/master
remote:
To github.com:JuliaMaffin123/git-new.git
 * [new branch]      master -> master
branch 'master' set up to track 'master/master'.
yapolyakoval@yapolyakoval:~/password-store$
```

Рис. 3.5: Завершаем синхронизацию

6. Проверяем на прямые изменения и проверяем статус синхронизации (рис. 3.6)

```
yapolyakoval@yapolyakoval:~/password-store$ git add .
yapolyakoval@yapolyakoval:~/password-store$ git commit -am 'edit manually'
On branch master
Your branch is up to date with 'master/master'.

nothing to commit, working tree clean
yapolyakoval@yapolyakoval:~/password-store$ git push
Everything up-to-date
yapolyakoval@yapolyakoval:~/password-store$ pass git status
On branch master
Your branch is up to date with 'master/master'.

nothing to commit, working tree clean
yapolyakoval@yapolyakoval:~/password-store$
```

Рис. 3.6: Проверка статуса синхронизации

7. Настраиваем интерфейс с браузером, устанавливаем плагин browserpass (рис. 3.7)

```

yapolyakoval@yapolyakoval:~$ sudo dnf copr enable maximbaz/browserpass
[sudo] password for yapolyakoval:
https://copr.fedorainfracloud.org/api_3/rp 100% | 601.0 B/s | 662.0 B | 00m01s
Enabling a Copr repository. Please note that this repository is not part
of the main distribution, and quality may vary.

The Fedora Project does not exercise any power over the contents of
this repository beyond the rules outlined in the Copr FAQ at
<https://docs.pagure.org/copr.copr/user_documentation.html#what-i-can-build-in-copr>
,
and packages are not held to any quality or security level.

Please do not file bug reports about these packages in Fedora
Bugzilla. In case of problems, contact the owner of this repository.
Is this ok [y/N]: y
yapolyakoval@yapolyakoval:~$ sudo dnf install browserpass
Updating and loading repositories:
Copr repo for browserpass owned by maximba 100% | 525.0 B/s | 3.1 KiB | 00m06s
Repositories loaded.

```

| Package | Arch | Version | Repository | Size |
|-------------|--------|--------------|------------|---------|
| Installing: | | | | |
| browserpass | x86_64 | 3.1.0-2.fc41 | updates | 3.1 MiB |

```

Transaction Summary:
Installing:      1 package

Total size of inbound packages is 1 MiB. Need to download 1 MiB.
After this operation, 3 MiB extra will be used (install 3 MiB, remove 0 B).
Is this ok [y/N]: y
[1/1] browserpass-0:3.1.0-2.fc41.x86_64 100% | 3.7 MiB/s | 1.2 MiB | 00m00s
-----
[1/1] Total 100% | 1.8 MiB/s | 1.2 MiB | 00m01s
Running transaction
[1/3] Verify package files 100% | 83.0 B/s | 1.0 B | 00m00s
[2/3] Prepare transaction 100% | 2.0 B/s | 1.0 B | 00m00s
[3/3] Installing browserpass-0:3.1.0-2.fc41 100% | 4.6 MiB/s | 3.1 MiB | 00m01s
Complete!
yapolyakoval@yapolyakoval:~$

```

Рис. 3.7: Настройка интерфейса с браузером

8. Добавляем новый пароль, отображаем его (рис. 3.8)

```

yapolyakoval@yapolyakoval:~$ cd ~/.password-store
yapolyakoval@yapolyakoval:~/.password-store$ pass insert password/.password
mkdir: created directory '/home/yapolyakoval/.password-store/password'
Enter password for password/.password:
Retype password for password/.password:
[master 0c4a7ce] Add given password for password/.password to store.
Committer: yapolyakoval <yapolyakoval@yapolyakoval.yapolyakoval.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

git config --global user.name "Your Name"
git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 password/.password.gpg
yapolyakoval@yapolyakoval:~/.password-store$ pass password/.password
123456
yapolyakoval@yapolyakoval:~/.password-store$

```

Рис. 3.8: Добавляем пароль

9. Генерируем новый пароль взамен существующего (рис. 3.9)

```
yapolyakoval@yapolyakoval:~/password-store$ pass generate --in-place password/.password
word
[master ad3e011] Replace generated password for password/.password.
Committer: yapolyakoval <yapolyakoval@yapolyakoval.yapolyakoval.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
The generated password for password/.password is:
=|cX>-Fpgt07|r,8x,kj:QERn
yapolyakoval@yapolyakoval:~/password-store$
```

Рис. 3.9: Генерация пароля

10. Устанавливаем дополнительное программное обеспечение командой `sudo dnf -y install` (рис. 3.10)

```
Transaction Summary:
Installing:          10 packages

Total size of inbound packages is 11 MiB. Need to download 11 MiB.
After this operation, 34 MiB extra will be used (install 34 MiB, remove 0 B).
[ 1/10] powerline-fonts-0:2.8.4-1.fc41.noar 100% | 136.7 KiB/s | 13.4 KiB | 00m00s
[ 2/10] light-0:1.2.2-14.fc41.x86_64 100% | 388.1 KiB/s | 39.6 KiB | 00m00s
[ 3/10] nanosvg-0:20221221-6.fc41.x86_64 100% | 642.7 KiB/s | 45.0 KiB | 00m00s
[ 4/10] fuzzel-0:1.11.1-2.fc41.x86_64 100% | 1.5 MiB/s | 117.7 KiB | 00m00s
[ 5/10] fontawesome4-fonts-1:4.7.0-23.fc41. 100% | 1.1 MiB/s | 204.5 KiB | 00m00s
[ 6/10] kitty-shell-integration-0:0.39.1-1. 100% | 521.9 KiB/s | 47.0 KiB | 00m00s
[ 7/10] kitty-terminfo-0:0.39.1-1.fc41.noar 100% | 472.7 KiB/s | 24.6 KiB | 00m00s
[ 8/10] ripgrep-0:14.1.1-1.fc41.x86_64 100% | 2.9 MiB/s | 1.5 MiB | 00m01s
[ 9/10] kitty-0:0.39.1-1.fc41.x86_64 100% | 3.1 MiB/s | 4.1 MiB | 00m01s
[10/10] kitty-kitten-0:0.39.1-1.fc41.x86_64 100% | 2.5 MiB/s | 5.2 MiB | 00m02s
-----
[10/10] Total 100% | 4.1 MiB/s | 11.3 MiB | 00m03s
Running transaction
[ 1/12] Verify package files 100% | 123.0 B/s | 10.0 B | 00m00s
[ 2/12] Prepare transaction 100% | 22.0 B/s | 10.0 B | 00m00s
[ 3/12] Installing kitty-terminfo-0:0.39.1- 100% | 1.4 MiB/s | 38.5 KiB | 00m00s
[ 4/12] Installing kitty-shell-integration- 100% | 6.7 MiB/s | 122.6 KiB | 00m00s
[ 5/12] Installing kitty-kitten-0:0.39.1-1. 100% | 110.5 MiB/s | 15.8 MiB | 00m00s
[ 6/12] Installing nanosvg-0:20221221-6.fc4 100% | 8.0 MiB/s | 90.0 KiB | 00m00s
[ 7/12] Installing fuzzel-0:1.11.1-2.fc41.x 100% | 12.5 MiB/s | 268.7 KiB | 00m00s
[ 8/12] Installing kitty-0:0.39.1-1.fc41.x8 100% | 39.2 MiB/s | 12.4 MiB | 00m00s
[ 9/12] Installing ripgrep-0:14.1.1-1.fc41. 100% | 119.6 MiB/s | 4.7 MiB | 00m00s
[10/12] Installing light-0:1.2.2-14.fc41.x8 100% | 2.2 MiB/s | 82.8 KiB | 00m00s
[11/12] Installing powerline-fonts-0:2.8.4- 100% | 619.2 KiB/s | 13.0 KiB | 00m00s
[12/12] Installing fontawesome4-fonts-1:4.7 100% | 258.7 KiB/s | 297.8 KiB | 00m01s
Complete!
```

Рис. 3.10: Установка доп. ПО

11. Устанавливаем шрифты: `sudo dnf copr enable peterwu/iosevka`, `sudo dnf search iosevka` и команда на скриншоте (рис. 3.11)

```
iosevka-term-ss13-fonts.noarch: Monospace, Lucida Style
iosevka-term-ss14-fonts.noarch: Monospace, JetBrains Mono Style
iosevka-term-ss15-fonts.noarch: Monospace, IBM Plex Mono Style
iosevka-term-ss16-fonts.noarch: Monospace, PT Mono Style
iosevka-term-ss17-fonts.noarch: Monospace, Recursive Mono Style
iosevka-term-ss18-fonts.noarch: Monospace, Input Mono Style
yapolyakoval@yapolyakoval:~$ sudo dnf install iosevka-fonts iosevka-aile-fonts iosevka-curlly-fonts iosevka-slab-fonts iosevka-etoile-fonts iosevka-term-fonts
Updating and loading repositories:
Repositories loaded.
Package Arch Version Repository Size
Installing:
iosevka-aile-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 245.2 MiB
iosevka-curlly-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 493.3 MiB
iosevka-etoile-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 248.5 MiB
iosevka-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 492.4 MiB
iosevka-slab-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 497.4 MiB
iosevka-term-fonts noarch 33.0.1-1.fc41 copr:copr.fedorai 492.4 MiB
```

Рис. 3.11: Установка шрифтов

12. Установка бинарного файла с помощью wget (рис. 3.12)

```
yapolyakoval@yapolyakoval:~$ sh -c "$(wget -qO- chezmoi.io/get)"
info found version 2.60.1 for latest/linux/amd64
info found glibc version 2.40
info installed bin/chezmoi
yapolyakoval@yapolyakoval:~$
```

Рис. 3.12: Установка бинарного файла

13. Создадим свой репозиторий для конфигурационных файлов на основе шаблона. Инициализируем chezmoi с репозиторием dotfiles: (рис. 3.13)

```
yapolyakoval@yapolyakoval:~$ gh repo create dotfiles --template="yamadharmadotfiles" --private
✓ Created repository JuliaMaffin123/dotfiles on GitHub
https://github.com/JuliaMaffin123/dotfiles
yapolyakoval@yapolyakoval:~$ chezmoi init git@github.com:JuliaMaffin123/dotfiles.git
Cloning into '/home/yapolyakoval/.local/share/chezmoi'...
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 (from 0)
Receiving objects: 100% (100/100), 77.86 KiB | 1.01 MiB/s, done.
yapolyakoval@yapolyakoval:~$
```

Рис. 3.13: Создание репозитория, инициализация chezmoi

14. Проверяем, какие изменения внесёт chezmoi в домашний каталог, запустив chezmoi diff. Меня устраивают изменения, внесённые chezmoi, поэтому запускаем chezmoi apply -v (рис. 3.14)

```
+creativecommons.org/policies, Creative Commons does not authorize the
+use of the trademark "Creative Commons" or any other trademark or logo
+of Creative Commons without its prior written consent including,
+without limitation, in connection with any unauthorized modifications
+to any of its public licenses or any other arrangements,
+understandings, or agreements concerning use of licensed material. For
+the avoidance of doubt, this paragraph does not form part of the
+public licenses.
+
+Creative Commons may be contacted at creativecommons.org.
+
uapolyakova@uapolyakova:~$ chezmoi apply -v
```

Рис. 3.14: Принимаем изменения chezmoi

15. Запускаем другую машину и подключаем chezmoi с помощью wget. Инициализируем chezmoi через ssh (рис. 3.15)

```
uapolyakova@fedora:~$ sh -c "$(wget -qO- chezmoi.io/get)"
info found version 2.60.1 for latest/linux/amd64
info found glibc version 2.39
info installed bin/chezmoi
uapolyakova@fedora:~$ chezmoi init https://github.com/JuliaMaffin123/dotfiles.git
Клонирование в «/home/uapolyakova/.local/share/chezmoi»...
Username for 'https://github.com': JuliaMaffin123
Password for 'https://JuliaMaffin123@github.com':
uapolyakova@fedora:~$ chezmoi init git@github.com:<username>/dotfiles.git
bash: username: Нет такого файла или каталога
uapolyakova@fedora:~$ chezmoi init git@github.com:JuliaMaffin123/dotfiles.git
Клонирование в «/home/uapolyakova/.local/share/chezmoi»...
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 (from 0)
Получение объектов: 100% (100/100), 77.86 КиБ | 960.00 КиБ/с, готово.
uapolyakova@fedora:~$
```

Рис. 3.15: Инициализируем chezmoi на другой машине

16. Также проверяем и принимаем изменения. chezmoi update -v позволяет получить и применить последние изменения. Затем настраиваем новую машину с помощью одной команды (рис. 3.16)

```
+of Creative Commons without its prior written consent including,
+without limitation, in connection with any unauthorized modifications
+to any of its public licenses or any other arrangements,
+understandings, or agreements concerning use of licensed material. For
+the avoidance of doubt, this paragraph does not form part of the
+public licenses.
+
+Creative Commons may be contacted at creativecommons.org.
+
uapolyakova@fedora:~$ chezmoi update -v
Уже актуально.
uapolyakova@fedora:~$ chezmoi init --apply git@github.com:JuliaMaffin123/dotfiles.git
uapolyakova@fedora:~$
```

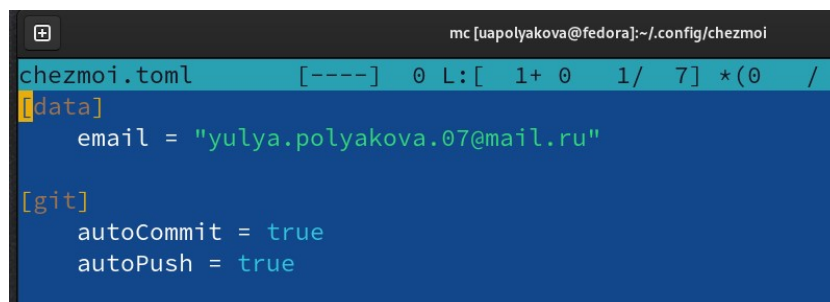
Рис. 3.16: Проверяем изменения, настраиваем машину одной командой

17. Проверяем работу ежедневных операций (рис. 3.17)

```
uapolyakova@fedora:~$ chezmoi update
Уже актуально.
uapolyakova@fedora:~$ chezmoi git pull -- --autostash --rebase && chezmoi diff
Уже актуально.
uapolyakova@fedora:~$ chezmoi apply
uapolyakova@fedora:~$
```

Рис. 3.17: Ежедневные операции

18. Автоматическая фиксация и отправление изменений в репозиторий в файле конфигурации (рис. 3.18)



```
mc [uapolyakova@fedora]: ~/.config/chezmoi
chezmoi.toml  [----]  0 L: [ 1+ 0 1/ 7] *(0 /
[data]
  email = "yulya.polyakova.07@mail.ru"

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

Рис. 3.18: Автоматические изменения

4 Вывод

Была настроена рабочая среда.