

Лабораторная работа №5

Настройка рабочей среды

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Информация

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Вводная часть

- Умение настраивать рабочую среду довольно полезно
- Это помогает пользователю настроить комфортные для работы условия

- Рабочая среда

- Цель: настроить рабочую среду
- Задачи:
 - Настройка с помощью менеджера паролей pass.
 - Настройка интерфейса с браузером.
 - Использовать chezmoi в настройке.

- Менеджер паролей pass
- Плагин browserpass
- chezmoi

Выполнение лабораторной работы

Установка pass командами `dnf install pass pass-otp` и `dnf install gopass` под суперпользователем

```
[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. 1: Установка pass

Список ключей и хранилище

Смотрим список ключей и инициализируем хранилище

```
yapolyakoval@yapolyakoval:~$ 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
[keyboxd]
-----
sec   rsa4096 2025-03-14 [SC]
      EA3623FB4969E42F5345558AC44E23D507ACB2C1
uid           [ultimate] JuliaMaffin123 <yulya.polyakova.07@mail.ru>
ssb   rsa4096 2025-03-14 [E]

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

Рис. 2: Список ключей и хранилище

Создадим структуру git

```
root@yapolyakov:~/yapolyakov# I 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/yapolyakov/.password-store/.git/
[master (root-commit) 2482b2d] Add correct contents of password store.
Committer: yapolyakov <yapolyakov@yapolyakov.yapolyakov.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 4264d45] Configure git repository for gpg file diff.
Committer: yapolyakov <yapolyakov@yapolyakov.yapolyakov.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: Структура git

Задаем адрес репозитория (заранее созданного) на хостинге и выполняем синхронизацию

```
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. 4: Адрес репозитория на хостинге

Завершаем синхронизацию

Завершаем синхронизацию

```
yapolyakoval@yapolyakoval:~/.password-store$ pass git push --set-upstream master mas
ter
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. 5: Завершаем синхронизацию

Проверяем на прямые изменения и проверяем статус синхронизации

```
yapolyakova1@yapolyakova1:~/password-store$ git add .
yapolyakova1@yapolyakova1:~/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
yapolyakova1@yapolyakova1:~/password-store$ git push
Everything up-to-date
yapolyakova1@yapolyakova1:~/password-store$ pass git status
On branch master
Your branch is up to date with 'master/master'.

nothing to commit, working tree clean
yapolyakova1@yapolyakova1:~/password-store$
```

Рис. 6: Проверка статуса синхронизации

Настройка интерфейса с браузером

Настраиваем интерфейс с браузером, устанавливаем плагин browserpass

```
root@localhost ~# sudo dnf copr enable maxime2/browserpass
[root] password for yepolysarov:
https://copr.fedorainfracloud.org/api_3/ep.1000 | 601.0 B/s | 462.0 B | 0min
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
root@localhost ~# sudo dnf install browserpass
Enabling and loading repositories.
Copr repo for browserpass owned by maxime2 | 525.0 B/s | 3.1 MiB | 0min
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 3 MiB. Need to download 3 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-3.1.0-2.fc41.x86_64 100% | 3.7 MiB/s | 1.2 MiB | 0min
(1/1) Total 100% | 1.9 MiB/s | 1.2 MiB | 0min
Running transaction
(1/3) Verify package files 100% | 83.0 B/s | 1.0 B | 0min
(2/3) Prepare transaction 100% | 2.0 B/s | 1.0 B | 0min
(3/3) Installing browserpass-3.1.0-2.fc41 100% | 4.4 MiB/s | 3.1 MiB | 0min
Complete!
```

Рис. 7: Настройка интерфейса с браузером

Добавляем новый пароль, отображаем его

```
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. 8: Добавляем пароль

Генерируем новый пароль взамен существующего

```
yapolyakova1@yapolyakova1:~/password-store$ pass generate --in-place password/.password
word
[master ad3e011] Replace generated password for password/.password.
Committer: yapolyakova1 <yapolyakova1@yapolyakova1.yapolyakova1.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,8r,kj:QERn
yapolyakova1@yapolyakova1:~/password-store$
```

Рис. 9: Генерация пароля

Устанавливаем дополнительное программное обеспечение командой `sudo dnf -y install`

```
Transaction Summary:
Installing: 10 packages

Total size of selected packages is 11 MiB. Need to download 11 MiB.
After this operation, 54 MiB extra will be used (install 54 MiB, remove 0 B).

1/10) powerline-fonts-0.2.0-4.1.fc41.noarch 100% 136.7 KiB/s | 13.4 KiB | 00:00:01
2/10) light-0.1.2.2-14.fc41.x86_64 100% 308.1 KiB/s | 39.0 KiB | 00:00:01
3/10) nano-vp-0.20221221-5.fc41.x86_64 100% 642.7 KiB/s | 45.0 KiB | 00:00:01
4/10) fuzzy-0.1.11.1-2.fc41.x86_64 100% 1.5 MiB/s | 117.7 KiB | 00:00:01
5/10) fortune-smeml-fonts-1.4.7-0.23.fc41 100% 1.1 MiB/s | 204.5 KiB | 00:00:01
6/10) kitty-shell-integration-0.0.39.1-1.fc41 100% 521.9 KiB/s | 74.7 KiB | 00:00:01
7/10) kitty-terminfo-0.0.39.1-1.fc41.noarch 100% 472.7 KiB/s | 24.6 KiB | 00:00:01
8/10) zipperv-0.14.1-1.fc41.x86_64 100% 2.9 MiB/s | 1.5 MiB | 00:00:11
9/10) kitty-0.0.39.1-1.fc41.x86_64 100% 3.1 MiB/s | 4.1 MiB | 00:00:11
10/10) kitty-kitten-0.0.39.1-1.fc41.x86_64 100% 2.5 MiB/s | 5.2 MiB | 00:00:11
-----
10/10) Total 100% | 4.1 MiB/s | 11.3 MiB | 00:00:11

Saving transaction
1/12) Verify package files 100% | 123.0 B/s | 10.0 B | 00:00:01
2/12) Prepare transaction 100% | 22.0 B/s | 10.0 B | 00:00:01
3/12) Installing kitty-terminfo-0.0.39.1-1.fc41 100% 1.4 MiB/s | 38.0 KiB | 00:00:01
4/12) Installing kitty-shell-integration-100% 6.7 MiB/s | 122.0 KiB | 00:00:01
5/12) Installing kitty-kitten-0.0.39.1-1.fc41 100% 110.5 MiB/s | 13.0 MiB | 00:00:01
6/12) Installing nano-vp-0.20221221-5.fc41 100% 8.0 MiB/s | 96.0 KiB | 00:00:01
7/12) Installing fuzzy-0.1.11.1-2.fc41.x86_64 100% 12.5 MiB/s | 205.7 KiB | 00:00:01
8/12) Installing kitty-0.0.39.1-1.fc41.x86_64 100% 39.2 MiB/s | 12.4 MiB | 00:00:01
9/12) Installing zipperv-0.14.1-1.fc41 100% 15.6 MiB/s | 4.7 MiB | 00:00:01
10/12) Installing light-0.1.2.2-14.fc41.x86_64 100% 2.5 MiB/s | 82.6 KiB | 00:00:01
11/12) Installing powerline-fonts-0.2.0-4.1.fc41 100% 619.2 KiB/s | 13.0 KiB | 00:00:01
12/12) Installing fortune-smeml-fonts-1.4.7-0.23.fc41 100% 254.7 KiB/s | 237.0 KiB | 00:00:11
Complete!
```

Рис. 10: Установка доп. ПО

Устанавливаем шрифты: `sudo dnf copr enable peterwu/iosevka`, `sudo dnf search iosevka` и команда на скриншоте

```
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
yapolyakova1@yapolyakova1:~$ sudo dnf install iosevka-fonts iosevka-aile-fonts iosevka-curly-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.fedora1	245.2 MiB
iosevka-curly-fonts	noarch	33.0.1-1.fc41	copr:copr.fedora1	493.3 MiB
iosevka-etoile-fonts	noarch	33.0.1-1.fc41	copr:copr.fedora1	248.5 MiB
iosevka-fonts	noarch	33.0.1-1.fc41	copr:copr.fedora1	492.4 MiB
iosevka-slab-fonts	noarch	33.0.1-1.fc41	copr:copr.fedora1	497.4 MiB
iosevka-term-fonts	noarch	33.0.1-1.fc41	copr:copr.fedora1	492.4 MiB

Рис. 11: Установка шрифтов

Установка бинарного файла с помощью wget

```
yapolyakova1@yapolyakova1:~$ sh -c "$(wget -qO- chezmoi.io/get)"
info found version 2.60.1 for latest/linux/amd64
info found glibc version 2.40
info installed bin/chezmoi
yapolyakova1@yapolyakova1:~$
```

Рис. 12: Установка бинарного файла

Создание репозитория, инициализация chezmoi

Создадим свой репозиторий для конфигурационных файлов на основе шаблона.
Инициализируем chezmoi с репозиторием dotfiles:

```
yapolyakoval@yapolyakoval:~$ gh repo create dotfiles --template="yamadharma/dotfiles  
-template" --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. 13: Создание репозитория, инициализация chezmoi

Принимаем изменения chezmoi

Проверяем, какие изменения внесёт chezmoi в домашний каталог, запустив `chezmoi diff`. Меня устраивают изменения, внесённые chezmoi, поэтому запускаем `chezmoi apply -v`

```
+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.
+yapolyakoval@yapolyakoval:~$ chezmoi apply -v
```

Рис. 14: Принимаем изменения chezmoi

Инициализируем chezmoi на другой машине

Запускаем другую машину и подключаем chezmoi с помощью wget. Инициализируем chezmoi через ssh

```
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. 15: Инициализируем chezmoi на другой машине

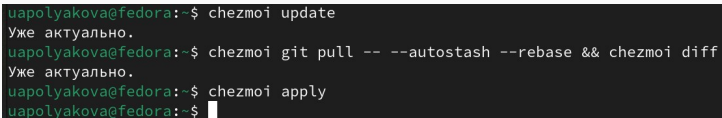
Проверяем изменения, настраиваем машину одной командой

Также проверяем и принимаем изменения. `chezmoi update -v` позволяет получить и применить последние изменения. Затем настраиваем новую машину с помощью одной команды

```
+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. 16: Проверяем изменения, настраиваем машину одной командой

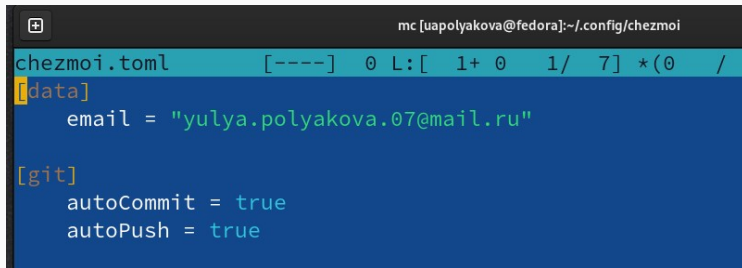
Проверяем работу ежедневных операций



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

Рис. 17: Ежедневные операции

Автоматическая фиксация и отправление изменений в репозиторий в файле конфигурации



```
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. 18: Автоматические изменения

Была настроена рабочая среда.