

Структура научной презентации

Простейший шаблон

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Познакомиться с pass, gopass, native messaging, chezmoi. Научиться пользоваться этими утилитами, синхронизировать их с гит.

1. Установить дополнительное ПО
2. Установить и настроить pass
3. Настроить интерфейс с браузером
4. Сохранить пароль
5. Установить и настроить chezmoi
6. Настроить chezmoi на новой машине
7. Выполнить ежедневные операции с chezmoi

Terminal - tsarevmax@TsarevMax:~

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```
tsarevmax@TsarevMax:~$ sudo dnf install pass pass-otp
```

```
[sudo] password for tsarevmax:
```

```
Updating and loading repositories:
```

Fedora 41 - x86_64 - Updates	100%		88.7 KiB/s		24.3 KiB		00m00s
Fedora 41 - x86_64 - Updates	100%		3.0 MiB/s		3.1 MiB		00m01s

установка gopass

```
tsarevmax@TsarevMax:~$ sudo dnf install gopass
Updating and loading repositories:
Repositories loaded.
Package Arch Version Repository Size
Installing:
gopass x86_64 1.15.15-2.fc41 updates 22.8 MiB
Installing dependencies:
fish x86_64 3.7.0-4.fc41 fedora 14.0 MiB
pcre2-utf32 x86_64 10.44-1.fc41.1 fedora 562.0 KiB

Transaction Summary:
Installing: 3 packages

Total size of inbound packages is 12 MiB. Need to download 12 MiB.
After this operation, 37 MiB extra will be used (install 37 MiB, remove 0 B).
Is this ok [y/N]: y
[1/3] pcre2-utf32-0:10.44-1.fc41.x86_64 100% | 1.2 MiB/s | 210.4 KiB | 00m00s
[2/3] gopass-0:1.15.15-2.fc41.x86_64 100% | 3.5 MiB/s | 8.4 MiB | 00m02s
[3/3] fish-0:3.7.0-4.fc41.x86_64 100% | 1.3 MiB/s | 3.5 MiB | 00m03s
-----
[3/3] Total 100% | 3.5 MiB/s | 12.1 MiB | 00m03s
Running transaction
[1/5] Verify package files 100% | 35.0 B/s | 3.0 B | 00m00s
[2/5] Prepare transaction 100% | 6.0 B/s | 3.0 B | 00m00s
[3/5] Installing pcre2-utf32-0:10.44-1.fc41.x86_64 100% | 6.0 MiB/s | 562.8 KiB | 00m00s
[4/5] Installing fish-0:3.7.0-4.fc41.x86_64 80% [===== ] | 11.2 MiB/s | 11.5 MiB | 00m00s
```

Проверка существующих ключей

Terminal - tsarevmax@TsarevMax:~

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```
tsarevmax@TsarevMax:~$ gpg --list-secret-keys
```

```
[keyboxd]
```

```
-----
```

```
sec    rsa4096 2025-03-04 [SC]
```

```
       72B41B15CFDED76B22936275C5CA56F395695F91
```

```
uid            [ultimate] TsarevMax <floozy06@mail.ru>
```

```
ssb    rsa4096 2025-03-04 [E]
```

```
tsarevmax@TsarevMax:~$
```

```
tsarevmax@TsarevMax:~$ gpg --list-secret-keys
[keyboxd]
-----
sec   rsa4096 2025-03-04 [SC]
      72B41B15CFDED76B22936275C5CA56F395695F91
uid           [ultimate] TsarevMax <floozy06@mail.ru>
ssb   rsa4096 2025-03-04 [E]

tsarevmax@TsarevMax:~$ pass init 72B41B15CFDED76B22936275C5CA56F395695F91
mkdir: created directory '/home/tsarevmax/.password-store/'
Password store initialized for 72B41B15CFDED76B22936275C5CA56F395695F91
tsarevmax@TsarevMax:~$ █
```

```
tsarevmax@TsarevMax:~$ pass git init
Initialized empty Git repository in /home/tsarevmax/.password-store/.git/
[master (root-commit) 560f7a5] Add current contents of password store.
 1 file changed, 1 insertion(+)
 create mode 100644 .pgp-id
[master f7cc2c3] Configure git repository for pgp file diff.
 1 file changed, 1 insertion(+)
 create mode 100644 .gitattributes
tsarevmax@TsarevMax:~$
```


предварительно создал репозиторий на гите

```
tsarevmax@TsarevMax:~$ pass git remote add origin git@github.com:gravitai06/study_2024-2025_os-intro.git
tsarevmax@TsarevMax:~$ pass git push -u origin master
To github.com:gravitai06/study_2024-2025_os-intro.git
 ! [rejected]        master -> master (fetch first)
error: failed to push some refs to 'github.com:gravitai06/study_2024-2025_os-intro.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
tsarevmax@TsarevMax:~$ pass git pull origin master
remote: Enumerating objects: 311, done.
remote: Counting objects: 100% (311/311), done.
remote: Compressing objects: 100% (261/261), done.
remote: Total 311 (delta 101), reused 167 (delta 43), pack-reused 0 (from 0)
Receiving objects: 100% (311/311), 16.37 MiB | 373.00 KiB/s, done.
Resolving deltas: 100% (101/101), done.
From github.com:gravitai06/study_2024-2025_os-intro
 * branch            master      -> FETCH_HEAD
 * [new branch]       master      -> origin/master
hint: You have divergent branches and need to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
hint: your next pull:
hint:
hint:   git config pull.rebase false  # merge
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only       # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
fatal: Need to specify how to reconcile divergent branches.
tsarevmax@TsarevMax:~$ pass git push -u origin master
```

Terminal - tsarevmax@TsarevMax:~

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```
tsarevmax@TsarevMax:~$ pass git push origin master
```

```
Everything up-to-date
```

```
tsarevmax@TsarevMax:~$
```

установка browserpass

```
tsarevmax@TsarevMax:~$ sudo dnf copr enable maximbaz/browserpass
[sudo] password for tsarevmax:
https://copr.fedorainfracloud.org/api_3/rpmre 100% | 674.0 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]:

```
tsarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intr
o$ sudo dnf install browserpass
Updating and loading repositories:
Copr repo for browserpass owned by maximbaz 100% | 6.9 KiB/s | 3.1 KiB | 00m00s
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
```

добавляю новый пароль

```
tsarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intr
o$ pass insert password/password
mkdir: created directory '/home/tsarevmax/.password-store/password'
Enter password for password/password:
Retype password for password/password:
[master 77c6d0a] Add given password for password/password to store.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 password/password.gpg
tsarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intr
o$
```

```
tsarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intr
o$ pass generate --in-place password/password
[master 737f78c] Replace generated password for password/password.
 1 file changed, 0 insertions(+), 0 deletions(-)
The generated password for password/password is:
(QmKQ9"Yki{~\r^{'U6hag~0,
tsarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intr
o$
```

Установка дополнительного программного обеспечения

```
sarevmax@TsarevMax:~/work/study/2024-2025/Операционные системы/study_2024-2025_os-intx
$ sudo dnf -y install \
    dunst \
    fontawesome-fonts \
    powerline-fonts \
    light \
    fuzzel \
    swaylock \
    kitty \
    waybar swaybg \
    wl-clipboard \
    mpv \
    grim \
    slurp
```

Updating and loading repositories:

Repositories loaded.

Package "dunst-1.12.1-1.fc41.x86_64" is already installed.

Package "wl-clipboard-2.2.1-3.fc41.x86_64" is already installed.

Package	Arch	Version	Repository	Size
Installing:				
fontawesome4-fonts	noarch	1:4.7.0-23.fc41	fedora	296.6 KiB
fuzzel	x86_64	1.11.1-2.fc41	updates	265.9 KiB
grim	x86_64	1.4.1-4.fc41	fedora	45.2 KiB
kitty	x86_64	0.39.1-1.fc41	updates	12.3 MiB
light	x86_64	1.2.2-14.fc41	fedora	81.4 KiB
mpv	x86_64	0.39.0-1.fc41	fedora	4.2 MiB
powerline-fonts	noarch	2.8.4-1.fc41	fedora	11.8 KiB
slurp	x86_64	1.5.0-3.fc41	fedora	43.5 KiB
swaybg	x86_64	1.2.1-2.fc41	fedora	35.5 KiB
swaylock	x86_64	1.8.0-1.fc41	fedora	88.5 KiB
waybar	x86_64	0.11.0-1.fc41	fedora	2.0 MiB
Installing dependencies:				
compat-lua-libs	x86_64	5.1.5-26.fc41	fedora	498.2 KiB
fcft	x86_64	3.1.10-1.fc41	updates	153.2 KiB
gtk-layer-shell	x86_64	0.9.0-1.fc41	fedora	269.2 KiB
jsoncpp	x86_64	1.9.5-8.fc41	fedora	253.4 KiB
kitty-kitten	x86_64	0.39.1-1.fc41	updates	15.8 MiB

Установим бинарный файл. Создадим собственный репозиторий с помощью утилит Создадим свой репозиторий для конфигурационных файлов на основе шаблона: Инициализируем chezmoi с репозиторием dotfiles: Проверим, какие изменения внесёт chezmoi в домашний каталог. Запустим: `chezmoi apply -v`

```
gh repo create dotfiles --template="yamadharma/dotfiles-template" --private
chezmoi init git@github.com:gravitai06/dotfiles.git
chezmoi diff
```

```
Terminal - tsarevmax@TsarevMax:~
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+rm -f report_tmp.md
diff --git a/template/report/scripts/mpv-shot b/template/report/scripts/mpv-shot
new file mode 100644
index 00000000000000000000000000000000..15bc28f96cd3f278d5581783efa995bc2a2928df
--- /dev/null
+++ b/template/report/scripts/mpv-shot
@@ -0,0 +1,27 @@
+#!/bin/bash
+
+# Format
+# ./mpv-shot video_file number_of_samples
+
+mkdir -p image
+
+# video file
+video=$1
+# number of samples (if empty = 100)
+numsamples=$2
+numsamples=${numsamples:-100}
+
```

Можно автоматически фиксировать и отправлять изменения в исходный каталог в репозиторий. Эта функция отключена по умолчанию. Чтобы включить её, добавим в файл конфигурации `~/.config/chezmoi/chezmoi.toml` следующие строки

```
Terminal - tsarevmax@TsarevMax:~  
File Edit View Terminal Tabs Help  
GNU nano 8.1 /home/tsarevmax/.config/chezmoi/chezmoi.toml  
[data]  
  email = "floozy06@mail.ru"  
  
[git]  
  autoCommit = true  
  autoPush = true
```

Мы познакомились с pass, gopass, native messaging, chezmoi. Научились пользоваться этими утилитами, синхронизировали их с гит.