Отчёт по по лабораторной работе №5

Операционные системы

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Цель работы

Настройка рабочей среды с помощью менеджера паролей pass.

Задание

- 1. Установить необходимое программное обеспечение.
- 2. Изучить принцип работы менеджера паролей pass.
- 3. Установить дополнительное программное обеспечение.

Теоретическое введение

Менеджер паролей pass создан в рамках идеалогии Unix. В нём данные хранятся в файловой системе в виде каталогов и файлов. Файлы шифруются с помощью GPG-ключа.

Структура базы паролей может быть произвольной. Если необходимо использовать дополнительное программное обеспечение, семантику необходимо заложить в структуру базы паролей.

На данный момент существует 2 основных реализации: pass и gopass.

Выполнение лабораторной работы

Устанавливаю gopass.

```
asvedjmina@asvedjmina-Modern-15-B12M:~$ sudo apt-get install gopass
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
 gopass
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 635 kB of archives.
After this operation, 2 037 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 gopass amd64 1.2.
0-2 [635 kB]
Fetched 635 kB in 0s (1 639 kB/s)
Selecting previously unselected package gopass.
(Reading database ... 206067 files and directories currently installed.)
Preparing to unpack .../gopass_1.2.0-2_amd64.deb ...
Unpacking gopass (1.2.0-2) ...
Setting up gopass (1.2.0-2) ...
Processing triggers for man-db (2.9.1-1)_...
asvedjmina@asvedjmina-Modern-15-B12M:~$
```

Установка gopass

Устанавливаю менеджер паролей pass.

```
asvedjmina@asvedjmina-Modern-15-B12M:~$ sudo apt-get install pass
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libgrencode4 grencode tree
Suggested packages:
 python libxml-simple-perl ruby
The following NEW packages will be installed:
 libgrencode4 pass grencode tree
O upgraded, 4 newly installed, O to remove and 88 not upgraded.
Need to get 128 kB of archives.
After this operation, 404 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libgrencode4 amd6
4 4.0.2-2 [23,6 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 tree amd64 1.8.0-
1 [43,0 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 pass all 1.7.3-2
[37,6 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 qrencode amd64 4.
```

Установка pass

Просматриваю список имеющихся ключей. Так как список пуст, создаю новый ключ.

Создание ключа GPG

Инициализирую хранилище.

```
asvedjmina@asvedjmina-Modern-15-B12M:~$ pass init vedmina027@gmail.com
mkdir: created directory '/home/asvedjmina/.password-store/'
Password store initialized for vedmina027@gmail.com
asvedjmina@asvedjmina-Modern-15-B12M:~$
```

Инициализация хранилища

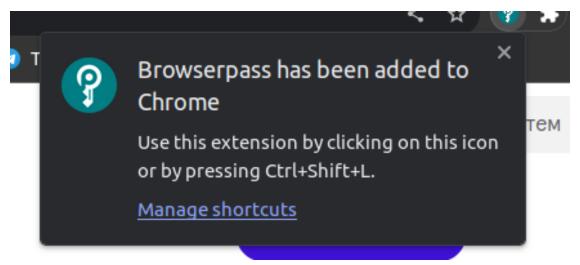
Синхранизирую хранилище с git, создавая структуру git и задавая адрес репозитория на хостинге.

```
asvedjmina@asvedjmina-Modern-15-B12M:~$ cd work
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ pass init vedmina027@gmail.com
Password store initialized for vedmina027@gmail.com
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ pass git init
Initialized empty Git repository in /home/asvedjmina/.password-store/.git/
[master (root-commit) ab35fec] Add current contents of password store.

1 file changed, 1 insertion(+)
create mode 100644 .gpg-id
[master 6953ea0] Configure git repository for gpg file diff.
 1 file changed, 1 insertion(+)
 create mode 100644 .gitattributes
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ pass git remote add origin https://github.
com/asvedjmina/pass.git
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ pass git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.
    git pull <remote> <branch>
If you wish to set tracking information for this branch you can do so with:
    git branch --set-upstream-to=origin/<branch> master
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Синхронизация с git

Добавляю browserpass в Chrome.



Добавление browserpass

Скачиваю browserpass с помощью sudo apt.

```
asvedjmina@asvedjmina-Modern-15-B12M:~$ sudo apt-get install webext-browserpass
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  fonts-open-sans
The following NEW packages will be installed:
  fonts-open-sans webext-browserpass
0 upgraded, 2 newly installed, 0 to remove and 88 not upgraded.
Need to get 1 874 kB of archives.
After this operation, 7 326 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 fonts-open-sans al
l 1.11-1 [575 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 webext-browserpass
 amd64 3.4.1-3 [1 299 kB]
Fetched 1 874 kB in 1s (1 539 kB/s)
Selecting previously unselected package fonts-open-sans.
(Reading database ... 206073 files and directories currently installed.)
Preparing to unpack .../fonts-open-sans_1.11-1_all.deb ...
Unpacking fonts-open-sans (1.11-1) ...
Selecting previously unselected package webext-browserpass.
Preparing to unpack .../webext-browserpass 3.4.1-3 amd64.deb
```

Установка browserpass

Устанавливаю дополнительное программное обеспечение.

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt-get install dunst
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 70,7 kB of archives.
After this operation, 181 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 dunst amd64 1.4.1-
1 [70,7 kB]
Fetched 70,7 kB in 0s (370 kB/s)
Selecting previously unselected package dunst.
(Reading database ... 206140 files and directories currently installed.)
Preparing to unpack .../dunst_1.4.1-1_amd64.deb ...
Unpacking dunst (1.4.1-1) ...
Setting up dunst (1.4.1-1) ...
Created symlink /etc/systemd/user/default.target.wants/dunst.service \rightarrow /usr/lib/s
ystemd/user/dunst.service.
Processing triggers for man-db (2.9.1-1) ...
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка dunst

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install fonts-font-awesome
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  fonts-font-awesome
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 514 kB of archives.
After this operation, 1 395 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 fonts-font-awesome all
5.0.10+really4.7.0~dfsg-1 [514 kB]
Fetched 514 kB in 0s (1 639 kB/s)
Selecting previously unselected package fonts-font-awesome.
(Reading database ... 206151 files and directories currently installed.)
Preparing to unpack .../fonts-font-awesome_5.0.10+really4.7.0~dfsg-1_all.deb ...
Unpacking fonts-font-awesome (5.0.10+really4.7.0~dfsg-1) ...
Setting up fonts-font-awesome (5.0.10+really4.7.0~dfsg-1) ...
Processing triggers for fontconfig (2.13.1-2ubuntu3) ...
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка fonts-awesome

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install fonts-powerline
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  fonts-powerline
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 5 492 B of archives.
After this operation, 25,6 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 fonts-powerline al
l 2.7-3 [5 492 B]
Fetched 5 492 B in 0s (38,0 kB/s)
Selecting previously unselected package fonts-powerline.
(Reading database ... 206211 files and directories currently installed.)
Preparing to unpack .../fonts-powerline_2.7-3_all.deb ...
Unpacking fonts-powerline (2.7-3) ...
Setting up fonts-powerline (2.7-3) ...
Processing triggers for fontconfig (2.13.1-2ubuntu3) ...
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка powerline-fonts

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install light
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
O upgraded, 1 newly installed, O to remove and 88 not upgraded.
Need to get 18,2 kB of archives.
After this operation, 59,4 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 light amd64 1.2.1-
3 [18,2 kB]
Fetched 18,2 kB in 0s (108 kB/s)
Selecting previously unselected package light.
(Reading database ... 206217 files and directories currently installed.)
Preparing to unpack .../light_1.2.1-3_amd64.deb ...
Unpacking light (1.2.1-3) ...
Setting up light (1.2.1-3) ...
Processing triggers for man-db (2.9.1-1) ...
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка light

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install swaylock
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 88 not upgraded.
Need to get 28,4 kB of archives.
After this operation, 114 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 swaylock amd64 1.5
-2 [28,4 kB]
Fetched 28,4 kB in 0s (157 kB/s)
Selecting previously unselected package swaylock.
(Reading database ... 206226 files and directories currently installed.)
Preparing to unpack .../swaylock_1.5-2_amd64.deb ...
Unpacking swaylock (1.5-2) ...
Setting up swaylock (1.5-2) ...
Processing triggers for man-db (2.9.1-1) ...
```

Установка swaylock

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install kitty
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  kitty-doc kitty-terminfo libjs-jquery libjs-sphinxdoc libjs-underscore
The following NEW packages will be installed:
  kitty kitty-doc kitty-terminfo libjs-jquery libjs-sphinxdoc libjs-underscore
O upgraded, 6 newly installed, O to remove and 88 not upgraded.
Need to get 2 815 kB/3 144 kB of archives.
After this operation, 10,8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal-updates/universe amd64 kitty-term
info all 0.15.0-1ubuntu0.2 [8 740 B]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal-updates/universe amd64 kitty amd6
4 0.15.0-1ubuntu0.2 [1 108 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal-updates/main amd64 libjs-undersco
re all 1.9.1~dfsg-1ubuntu0.20.04.1 [99,5 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu focal/main amd64 libjs-sphinxdoc all 1.
8.5-7ubuntu3 [97,1 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu focal-updates/universe amd64 kitty-doc
```

Установка kitty

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install waybar swaybg
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 libjsoncpp1 libmpdclient2
Suggested packages:
 sway
The following NEW packages will be installed:
 libjsoncpp1 libmpdclient2 swaybg waybar
0 upgraded, 4 newly installed, 0 to remove and 88 not upgraded.
Need to get 349 kB/425 kB of archives.
After this operation, 1 434 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libmpdclient2 amd6
4 2.18-1 [42,5 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 swaybg amd64 1.0-2
Get:3 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 waybar amd64 0.9.0
-1 [293 kB]
Fetched 349 kB in 0s (1 078 kB/s)
```

Установка warbar swavba

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install mpv
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
libdvdnav4 libdvdread7 libva-wayland2 python3-pyxattr rtmpdump youtube-dl
Suggested packages:
  libdvdcss2 python3-pyxattr-dbg python-pyxattr-doc libfribidi-bin | bidiv
  phantomis
The following NEW packages will be installed:
 libdvdnav4 libdvdread7 libva-wayland2 mpv python3-pyxattr rtmpdump youtube-dl
O upgraded, 7 newly installed, O to remove and 88 not upgraded.
Need to get 2 164 kB of archives.
After this operation, 8 793 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libdvdread7 amd64
6.1.0+really6.0.2-1 [49,9 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libdvdnav4 amd64 6
.0.1-1build1 [39,0 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 libva-wavland2 amd
```

Установка тру

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sudo apt install grim
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  grim
O upgraded, 1 newly installed, O to remove and 88 not upgraded.
Need to get 13,1 kB of archives.
After this operation, 49,2 kB of additional disk space will be used.
Get:1 http://ru.archive.ubuntu.com/ubuntu focal/universe amd64 grim amd64 1.3.0+d
s-1 [13,1 kB]
Fetched 13,1 kB in 0s (88,8 kB/s)
Selecting previously unselected package grim.
(Reading database ... 207457 files and directories currently installed.)
Preparing to unpack .../grim_1.3.0+ds-1_amd64.deb ...
Unpacking grim (1.3.0+ds-1) ...
Setting up grim (1.3.0+ds-1) ..
Processing triggers for man-db (2.9.1-1) ...
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка grim

Устанавливаю бинарный файл.

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ sh -c "$(wget -q0- chezmoi.io/get)"
info found version 2.47.1 for latest/linux/amd64
info installed ./bin/chezmoi
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Установка бинарного файла

Создаю свой репозиторий для конфигурационных файлов на основе шаблона.

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ gh repo create dotfiles --template="
yamadharma/dotfiles-template" --private

⁄ Created repository asvedjmina/dotfiles on GitHub
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Создание репозитория

Инициализирую chezmoi с моим репозиторием dotfiles.

```
asvedjmina@asvedjmina-Modern-15-B12M:~/work$ chezmoi init git@github.com:asvedjmi
na/dotfiles.git
Cloning into '/home/asvedjmina/.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
Receiving objects: 100% (100/100), 77.86 KiB | 905.00 KiB/s, done.
asvedjmina@asvedjmina-Modern-15-B12M:~/work$
```

Инициализация chezmoi

Запускаю chezmoi. Просматриваю внесённые им изменения.

Запуск chezmoi

Сохраняю изменения.

Выводы

В ходе лабораторной работы я освоила навыки использования менеджера паролей pass.