Лабораторная работа № 5

Операционные системы

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16 марта 2024

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Информация

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Вводная часть

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Настройка рабочей среды.

Актуальность

- Современные проекты требуют гибкой конфигурации, которая может изменяться в зависимости от среды разработки или выполнения. Использование chezmoi позволяет эффективно управлять конфигурациями на разных уровнях
- Безопасное хранение и обмен паролями важная задача в сфере информационной безопасности. Утилиты pass и gopass предоставляют удобный и безопасный способ управления паролями

Объект и предмет исследования

- chezmoi
- pass
- gopass

Цели и задачи

Получение навыков работы с chezmoi, pass, gopass. Облегчение последующей работы с git.

Материалы и методы

- Процессор pandoc для входного формата Markdown
- Результирующие форматы
 - pdf
 - html
- Автоматизация процесса создания: Makefile

Установка pass и gopass

```
[avperegudov@fedora ~]$ sudo dnf install pass pass-otp
[sudo] password for avperegudov:
Last metadata expiration check: 0:26:50 ago on Tue 12 Mar 2024 03:39:33 PM MSK.
Package pass-1.7.4-8.fc39.noarch is already installed.
Package pass-otp-1.2.0-12.fc39.noarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[avperegudov@fedora ~]$ sudo dnf install gopass
Last metadata expiration check: 0:27:01 ago on Tue 12 Mar 2024 03:39:33 PM MSK.
Package gopass-1.15.2-2.fc38.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Ключи дрд

```
[avperegudov@fedora os-intro]$ gpg --list-secret-keys
[keyboxd]
sec
     rsa4096 2024-03-02 [SC]
      2FB448FA496342C34A5436576B8D75421F02CF10
uid
              [ultimate] Alexander <magifiter6239@gmail.com>
      rsa4096 2024-03-02 [E]
ssb
      rsa4096 2024-03-02 [SC]
sec
      85627557E200116436FB8197EE67EA8FEB3E7B12
uid
              [ultimate] Alexander <magister6239@gmail.com>
ssb
      rsa4096 2024-03-02 [E]
sec
      rsa4096 2024-03-04 [SC]
      F79C8F2DB66D9D44A85C7FF27EB7C28FB05D3DDE
u1d
              [ultimate] Alexander <magister6239@gmail.com>
      rsa4096 2024-03-04 [E]
ssb
```

Настройка

```
[avperegudov@fedora os-intro]$ sudo pass init magister6239@gmail.com
mkdir: created directory '/root/.password-store/'
Password store initialized for magister6239@gmail.com
[avperegudov@fedora os-intro]$
```

```
[avperegudov@fedora os-intro]$ sudo pass git init
Initialized empty Git repository in /root/.password-store/.git/
[master (root-commit) c355cbb] Add current contents of password store.

1 file changed, 1 insertion(+)
create mode 100644 .gpg-id
[master 62b707a] Configure git repository for gpg file diff.

1 file changed, 1 insertion(+)
create mode 100644 .gitattributes
[avperegudov@fedora os-intro]$
```

[avperegudov@fedora os-intro]\$ sudo git remote add origin git@github.com:magister6239/for_lab.git error: remote origin already exists.

```
[avperegudov@fedora os-intro]$ sudo pass git push
Everything up-to-date
```

Настройка интерфейса с броузером

[avperegudov@fedora os-intro]\$ sudo dnf copr enable maximbaz/browserpass Enabling a Copr repository. Please note that this repository is not part of the main distribution, and quality may vary.

[avperegudov@fedora os-intro]\$ sudo dnf install browserpass
Copr repo for browserpass owned by maximbaz
Dependencies resolved.

Package Architecture Version

Installing:
browserpass x86_64 3.1.0-1.fc39
Installing weak dependencies:
browserpass-chromium noarch 3.8.0-2.fc39
browserpass-firefox noarch 3.8.0-1.fc39

Transaction Summary

Сохранение пароля

```
[avperegudov@fedora os-intro]$ sudo pass insert file_for_key
Enter password for file_for_key:
Retype password for file_for_key:
[master 259f28f] Add given password for file_for_key to store.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file_for_key.gpg
[avperegudov@fedora os-intro]$
```

```
[avperegudov@fedora os-intro]$ sudo pass file_for_key alexander
[avperegudov@fedora os-intro]$ sudo pass generate --in-place file_for_key [master ac7b@31] Replace generated password for file_for_key.

1 file changed, @ insertions(+), @ deletions(-)
The generated password for file for key is:
u"#wYM3IH;3@8=k|{LKAK`aIm
[avperegudov@fedora os-intro]$ sudo pass file_for_key
u"#wYM3IH;3@8=k|{LKAK`aIm
[avperegudov@fedora os-intro]$
```

Дополнительное программное обеспечение

```
ayperegudov@fedora os-introl$ sudo dnf -v install dunst fontawesome-fonts powerline-fonts light fuzzel swavlock kitty waybar swavbg wl-clipboard mpv grim slur
Last metadata expiration check: 8:19:22 and on Tue 12 Mar 2824 85:82:58 PM MSK
Package dunst-1.9.2-2.fc39.x86_64 is already installed
Package fontawesome4-fonts-1:4.7.8-19.fc39.noarch is already installed.
Package powerline_fonts_2.8.3.14.fc39.noarch is already installed
Package light-1.2.2-18 fc39 v86 64 is already installed
Package fuzzel-1.9.2-2.fc39.x86 64 is already installed
Package swaylock-1.7.2-2.fc39.x86_64 is already installed
Package kitty-8.31.8-1 fc39 v86 64 is already installed
Package waybar-0.9.24-1.fc39.x86 64 is already installed
Package swaybg-1.2.8-3.fc39.x86 64 is already installed
Package wl.clipboard.2.2.1.1.fc39.x86.64 is already installed
Package mpv-0.36.0-3.fc39.x86_64 is already installed.
Package grim-1.4.1-1.fc39.x86 64 is already installed.
Package slurp-1.5.0-1.fc39.x86 64 is already installed
 ependencies resolved
Nothing to do
ompletel
```

[avperegudov@fedora os-intro]\$ sudo dnf copr enable peterwu/iosevka 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.

[avperegudov@fedora os-intro]\$ sudo dnf search iosevka Last metadata expiration check: 0:20:21 ago on Tue 12 Mar 2024 05:02:50 PM MSK.

```
| EmptragnoineTeders on-introl | sude def | Intral | Interest | In
```

Установка

```
[avperegudov@fedora os-intro]$ sudo sh -c "$(wget -q0- chezmoi.io/get)" info found version 2.47.1 for latest/linux/amd64 info installed ./bin/chezmoi [avperegudov@fedora os-intro]$
```

Создание собственного репозитория с помощью утилит

[avperegudov@fedora os-intro]\$ sudo gh repo create dotfiles --template="yamadharma/dotfiles-template" --private
 Created repository magister6239/dotfiles on GitHub
 https://github.com/magister6239/dotfiles
[avperegudov@fedora os-intro]\$

Подключение репозитория к своей системе

```
[awperegudov@fedora os-intro]$ sudo chezmoi init git@github.com:magister6239/dotfiles.git
[sudo] password for avperegudov:
Sorry, try again.
[sudo] password for avperegudov:
Cloning into '/root/.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 | 699.00 KiB/s, done.
[awperegudov@fedora os-intro]$
```

[avperegudov@fedora os-intro]\$ sudo chezmoi diff

[avperegudov@fedora os-intro]\$ sudo chezmoi apply -v

Использование chezmoi на нескольких машинах

```
[avperegudov2@fedora os-intro]$ sudo chezmoi init git@github.com:magister6239/dotfiles.git
Cloning into '/root/.local/share/chezmoi'...
remote: Enumerating 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 | 876.00 KIB/s, done.
[avperegudov2@fedora os-intro]$ 

[avperegudov2@fedora os-intro]$ 

[avperegudov2@fedora os-intro]$ ]
```

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[avperegudov2@fedora os-intro]\$ sudo chezmoi apply -v

Ежедневные операции с chezmoi

```
[avperegudov@fedora os-intro]$ sudo chezmoi update
Already up to date.
[avperegudov@fedora os-intro]$ [
[avperegudov@fedora os-intro]$ sudo chezmoi git pull -- --autostash -- zebase & chezmoi diff
Already up to date.
[avperegudov@fedora os-intro]$ chezmoi apply
[avperegudov@fedora os-intro]$
```

Автоматическая фиксация и отправка изменений в репозиторий