

Презентация по лабораторной работе №4

КОНЕ СИРИКИ

2023 Sep 29th

Цель работы

Приобретение практических навыков работы в консоли с расширенными атрибутами файлов Закрепление теоретических основ дискреционного разграничения доступа в системах на базе ОС Linux

```
[guest@user ~]$ lsattr /home/guest/dirl/file1  
----- /home/guest/dirl/file1  
[guest@user ~]$
```

Рис. 1: 1

```
[root@user guest]# chattr +a /home/guest/dirl/file
[root@user guest]# exit
exit
[guest@user ~]$ chattr +a /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$ █
```

Рис. 2: 2

```
[guest@user ~]$ echo "test" > /home/guest/dirl/file1  
[guest@user ~]$ cat /home/guest/dirl/file1  
test
```

Рис. 3: 3

4 and 5

```
[guest@user ~]$ echo "test" > /home/guest/dirl/file1
```

```
[guest@user ~]$ cat /home/guest/dirl/file1
```

```
test
```

```
est@user ~]$ chattr +a /home/guest/dirl/file1
```

```
chattr: Operation not permitted while setting flags on /home/guest/dirl/file1
```

```
est@user ~]$ echo "test" > /home/guest/dirl/file1
```

```
est@user ~]$ cat /home/guest/dirl/file1
```

```
t
```

```
est@user ~]$ rm /home/guest/dirl/file1
```

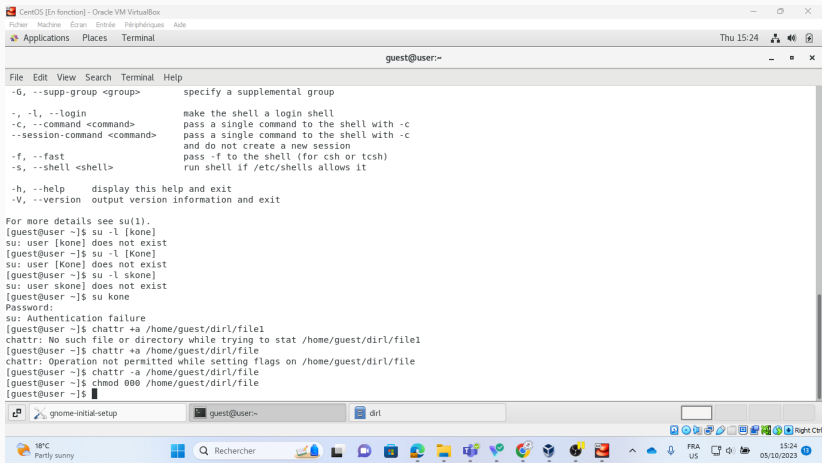
```
est@user ~]$ echo "abcd" > /home/guest/dirl/file1
```

```
est@user ~]$ mv ^Chome/guest/dirl/file1
```

```
est@user ~]$ mv /home/guest/dirl/file1 /home/guest/dirl/file
```

```
est@user ~]$ █
```

Результат выполнения лабораторной работы



```
CentOS [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Applications Places Terminal
Thu 15:24

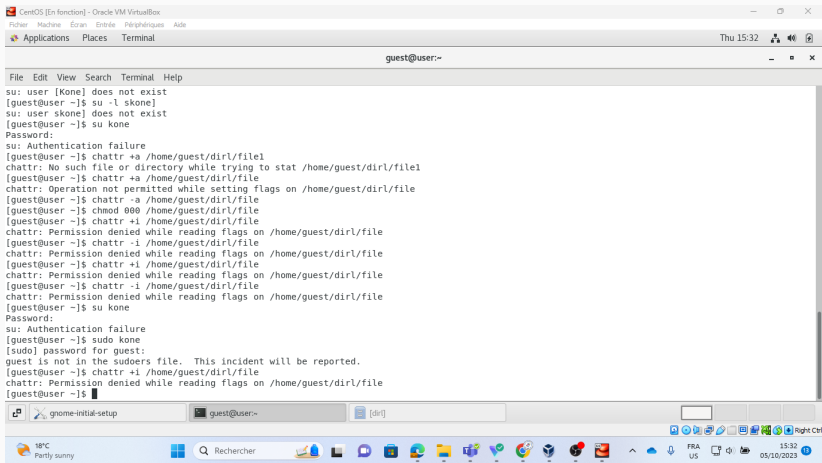
guest@user:~
File Edit View Search Terminal Help
-G, --supp-group <group>      specify a supplemental group
-, -l, --login                make the shell a login shell
-c, --command <command>      pass a single command to the shell with -c
--session-command <command> pass a single command to the shell with -c
-f, --fast                    and do not create a new session
-s, --shell <shell>          pass -f to the shell (for csh or tcsh)
                             run shell if /etc/shells allows it

-h, --help                    display this help and exit
-V, --version                 output version information and exit

For more details see su(1).
[guest@user ~]$ su -l [kone]
su: user [kone] does not exist
[guest@user ~]$ su -l [Kone]
su: user [Kone] does not exist
[guest@user ~]$ su -l skone
su: user skone does not exist
[guest@user ~]$ su kone
[guest@user ~]$ su kone
Password:
su: Authentication failure
[guest@user ~]$ chattr +a /home/guest/dirl/file1
chattr: No such file or directory while trying to stat /home/guest/dirl/file1
[guest@user ~]$ chattr +a /home/guest/dirl/file
chattr: Operation not permitted while setting flags on /home/guest/dirl/file
[guest@user ~]$ chattr -a /home/guest/dirl/file
[guest@user ~]$ chmod 000 /home/guest/dirl/file
[guest@user ~]$
```

Рис. 4: 6

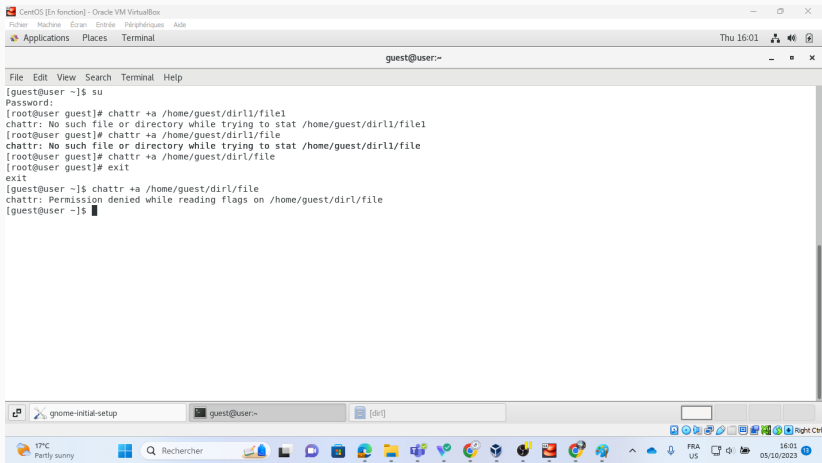
Результат выполнения лабораторной работы



```
CentOS [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Applications Places Terminal
Thu 15:32
guest@user:~
File Edit View Search Terminal Help
su: user [kone] does not exist
[guest@user ~]$ su -l skone
su: user skone] does not exist
[guest@user ~]$ su kone
Password:
su: Authentication failure
[guest@user ~]$ chattr +a /home/guest/dirl/file
chattr: No such file or directory while trying to stat /home/guest/dirl/file
[guest@user ~]$ chattr +a /home/guest/dirl/file
chattr: Operation not permitted while setting flags on /home/guest/dirl/file
[guest@user ~]$ chattr -a /home/guest/dirl/file
[guest@user ~]$ chmod 000 /home/guest/dirl/file
[guest@user ~]$ chattr +i /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$ chattr -i /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$ chattr +i /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$ chattr -i /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$ su kone
Password:
su: Authentication failure
[guest@user ~]$ sudo kone
[sudo] password for guest:
guest is not in the sudoers file. This incident will be reported.
[guest@user ~]$ chattr +i /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$
```

Рис. 5: 7

Результат выполнения лабораторной работы

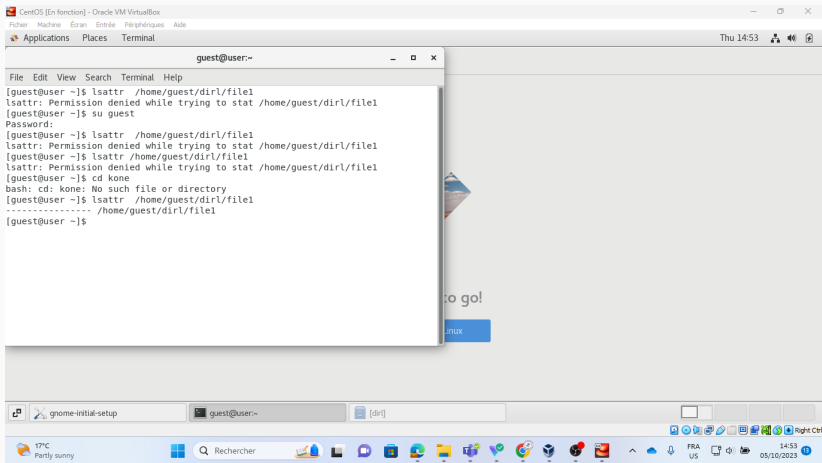


The screenshot shows a CentOS virtual machine window titled "CentOS [En fonction] - Oracle VM VirtualBox". The terminal window is open, showing a user switching from "guest" to "root" using the "su" command. The user then attempts to run "chattr +a /home/guest/dirl1/file1". The terminal output shows several error messages: "chattr: No such file or directory while trying to stat /home/guest/dirl1/file1", "chattr: No such file or directory while trying to stat /home/guest/dirl1/file", and "chattr: Permission denied while reading flags on /home/guest/dirl1/file". The user then exits the root shell and returns to the "guest" user. The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and system status information like "17°C Partly sunny" and "05/10/2023".

```
CentOS [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Applications Places Terminal
Thu 16:01
guest@user:~
File Edit View Search Terminal Help
[guest@user ~]$ su
Password:
[root@user guest]# chattr +a /home/guest/dirl1/file1
chattr: No such file or directory while trying to stat /home/guest/dirl1/file1
[root@user guest]# chattr +a /home/guest/dirl1/file
chattr: No such file or directory while trying to stat /home/guest/dirl1/file
[root@user guest]# chattr +a /home/guest/dirl/file
[root@user guest]# exit
exit
[guest@user ~]$ chattr +a /home/guest/dirl/file
chattr: Permission denied while reading flags on /home/guest/dirl/file
[guest@user ~]$
```

Рис. 6: 8

Результат выполнения лабораторной работы



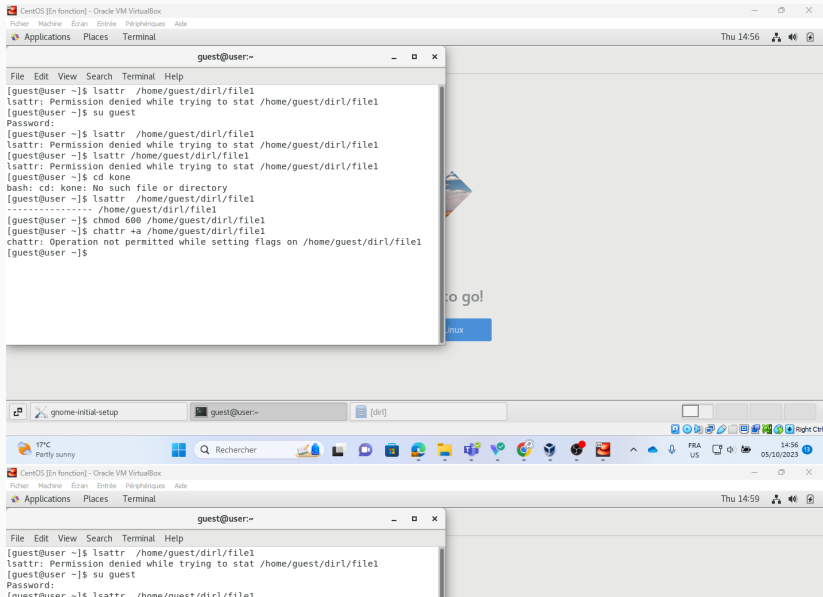
```
CentOS [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Applications Places Terminal
Thu 14:53

guest@user:~
File Edit View Search Terminal Help
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ su guest
Password:
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ cd /home
bash: cd: /home: No such file or directory
[guest@user ~]$ lsattr /home/guest/dirl/file1
----- /home/guest/dirl/file1
[guest@user ~]$
```

Рис. 7: 9

Результат выполнения лабораторной работы

4 and 5



```
CentOS [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Applications Places Terminal
Thu 14:56

guest@user:~
File Edit View Search Terminal Help
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ su guest
Password:
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ cd kone
bash: cd: kone: No such file or directory
[guest@user ~]$ lsattr /home/guest/dirl/file1
----- /home/guest/dirl/file1
[guest@user ~]$ chmod 600 /home/guest/dirl/file1
[guest@user ~]$ chattr +a /home/guest/dirl/file1
chattr: Operation not permitted while setting flags on /home/guest/dirl/file1
[guest@user ~]$
```

to go!

Linux

17°C
Partly sunny

Rechercher

CentOS [En fonction] - Oracle VM VirtualBox

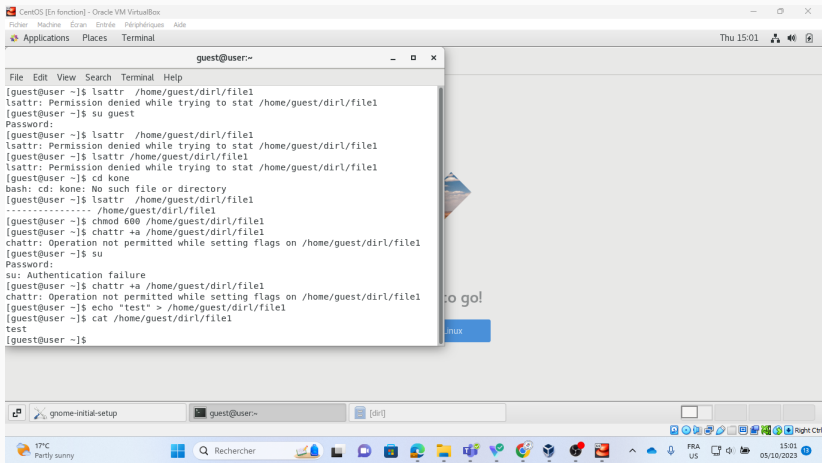
Fichier Machine Écran Entrée Périphériques Aide

Applications Places Terminal

Thu 14:59

```
guest@user:~
File Edit View Search Terminal Help
[guest@user ~]$ lsattr /home/guest/dirl/file1
lsattr: Permission denied while trying to stat /home/guest/dirl/file1
[guest@user ~]$ su guest
Password:
[guest@user ~]$ lsattr /home/guest/dirl/file1
```

Результат выполнения лабораторной работы



The screenshot shows a CentOS virtual machine running in Oracle VM VirtualBox. A terminal window is open, displaying the following commands and their outputs:

```
guest@user:~  
File Edit View Search Terminal Help  
[guest@user ~]$ lsattr /home/guest/dirl/file1  
lsattr: Permission denied while trying to stat /home/guest/dirl/file1  
[guest@user ~]$ su guest  
Password:  
[guest@user ~]$ lsattr /home/guest/dirl/file1  
lsattr: Permission denied while trying to stat /home/guest/dirl/file1  
[guest@user ~]$ lsattr /home/guest/dirl/file1  
lsattr: Permission denied while trying to stat /home/guest/dirl/file1  
[guest@user ~]$ cd /kone  
bash: cd: /kone: No such file or directory  
[guest@user ~]$ lsattr /home/guest/dirl/file1  
----- /home/guest/dirl/file1  
[guest@user ~]$ chmod 600 /home/guest/dirl/file1  
[guest@user ~]$ chattr +a /home/guest/dirl/file1  
chattr: Operation not permitted while setting flags on /home/guest/dirl/file1  
[guest@user ~]$ su  
Password:  
su: Authentication failure  
[guest@user ~]$ chattr +a /home/guest/dirl/file1  
chattr: Operation not permitted while setting flags on /home/guest/dirl/file1  
[guest@user ~]$ echo "test" > /home/guest/dirl/file1  
[guest@user ~]$ cat /home/guest/dirl/file1  
test  
[guest@user ~]$
```

The terminal window is titled "guest@user:~". The background of the VM desktop shows a "go!" logo and a "Linux" button. The taskbar at the bottom includes a weather widget (17°C, Partly sunny), a search bar (Rechercher), and various application icons. The system clock shows 15:01 on 05/10/2023.

Рис. 8: 12

Получены навыки работы с расширенными атрибутами файлов

Улучшены знания об ограничении доступа в системах на базе Linux

Рассмотрены принципы действия атрибутов «а» и «і»