

Отчет по лабораторной работе №4

Информационная безопасность

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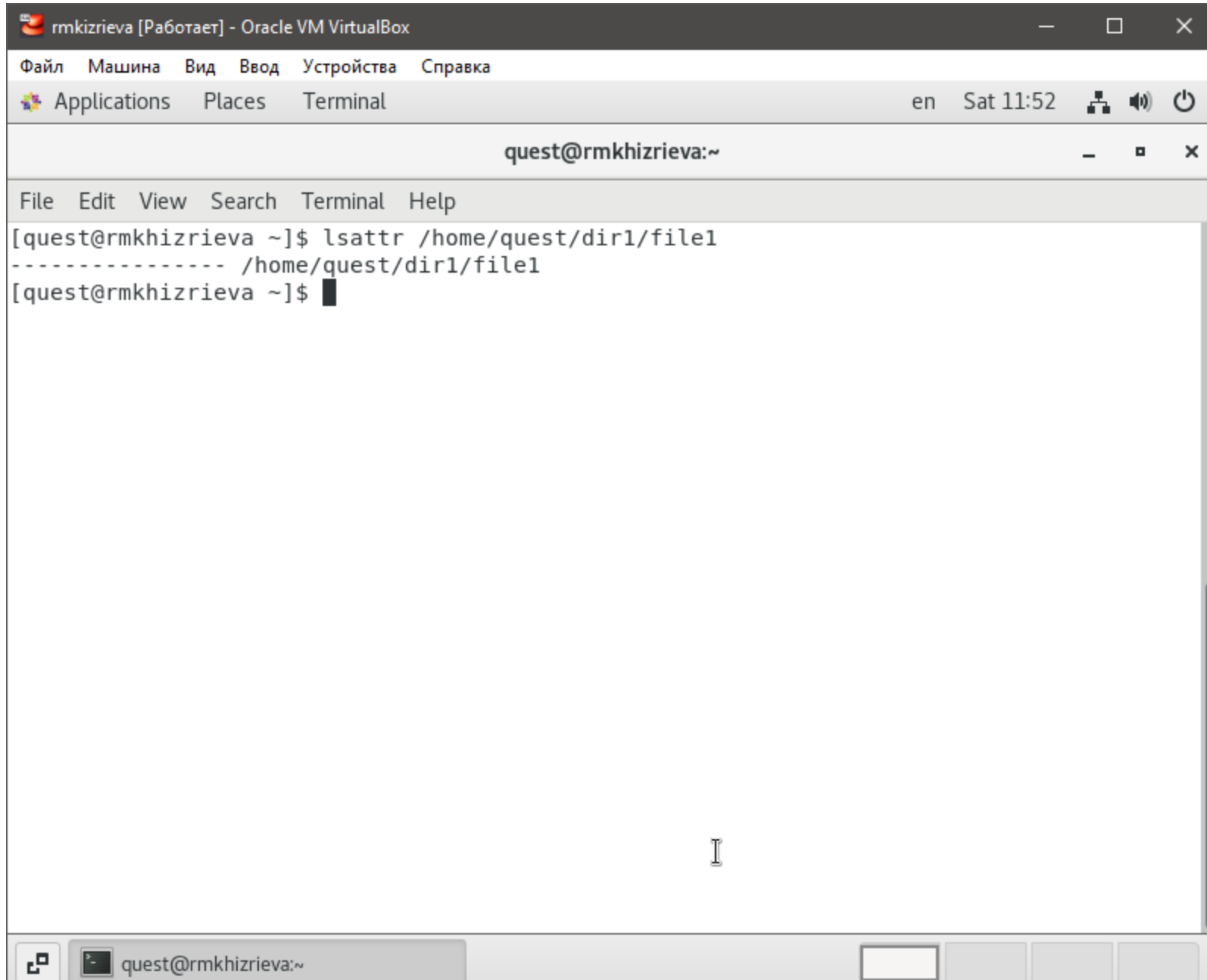
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Цели работы

Цель лабораторной работы №4 - получение практических навыков работы в консоли с расширенными атрибутами файлов.

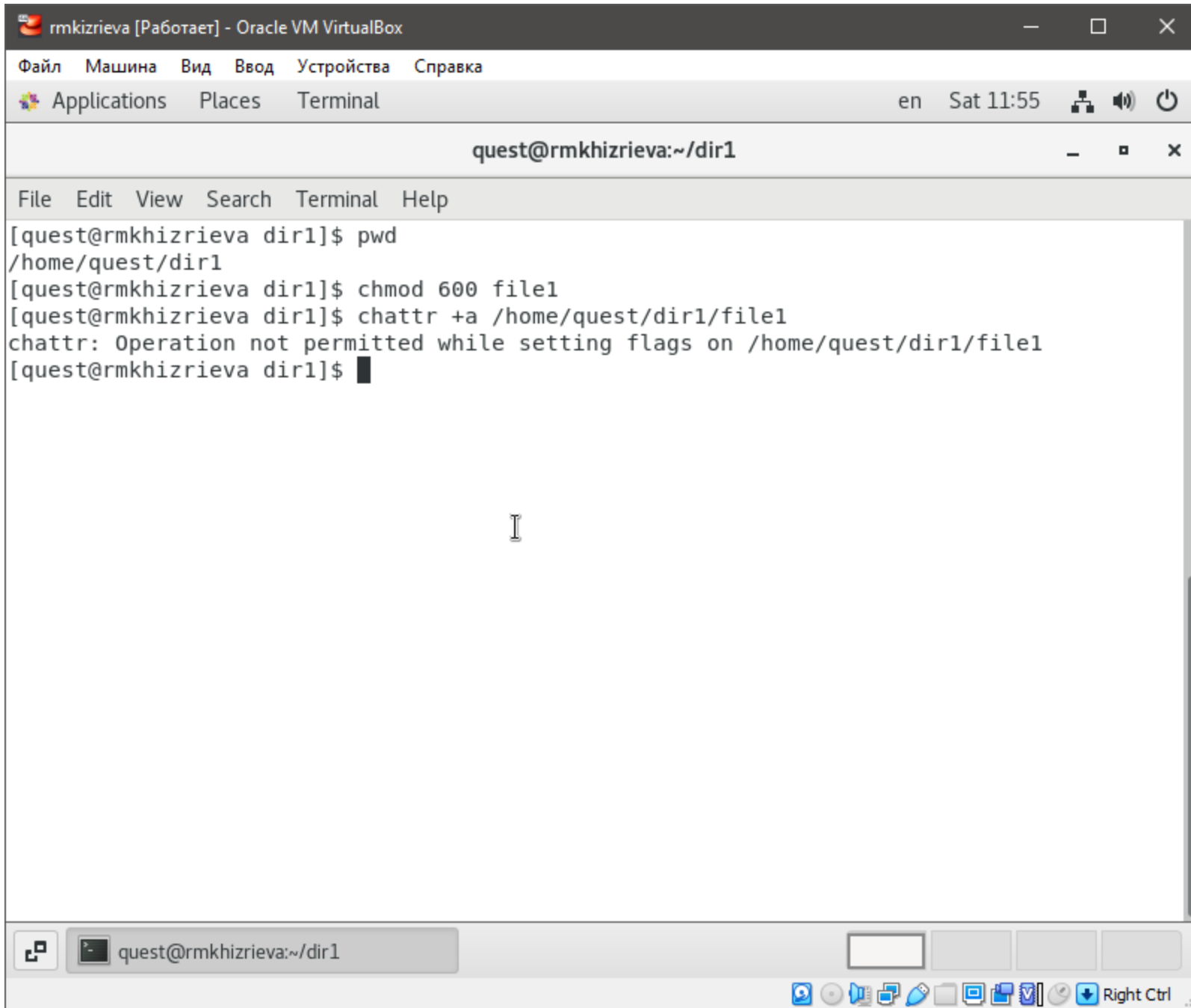
1. Расширенные атрибуты файла /home/guest/dir1/file1



The screenshot shows a terminal window titled "rmkizrieva [Работает] - Oracle VM VirtualBox". The window has a menu bar with "Файл", "Машина", "Вид", "Ввод", "Устройства", and "Справка". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal" buttons, along with a language indicator "en", a date/time "Sat 11:52", and icons for network, volume, and power. The terminal itself has a title bar "quest@rmkhizrieva:~" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the command "lsattr /home/quest/dir1/file1" being executed, with the output "----- /home/quest/dir1/file1" displayed. The prompt "[quest@rmkhizrieva ~]\$" is shown again with a cursor.

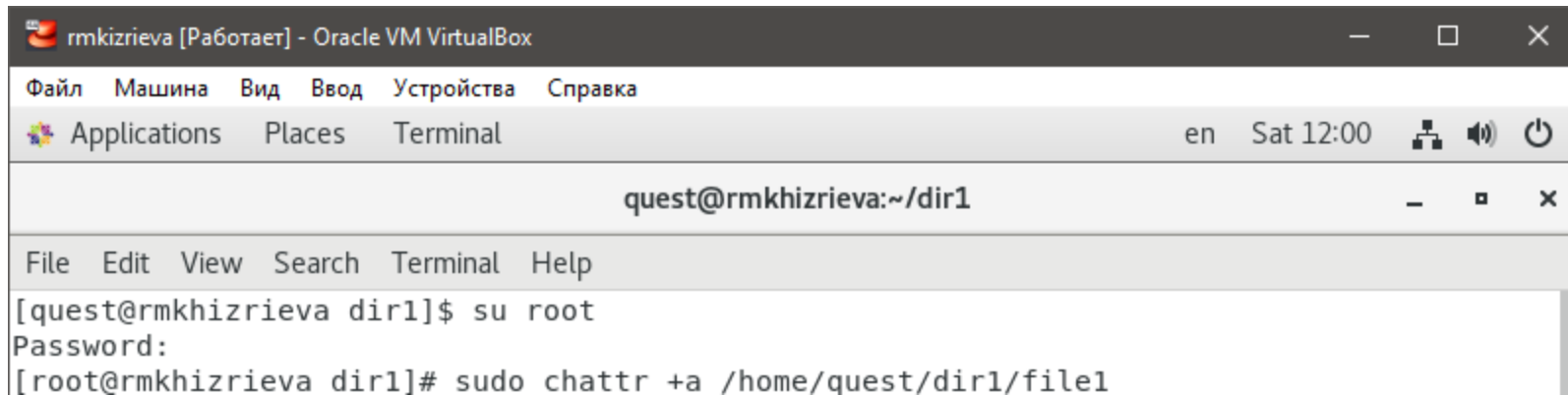
```
rmkizrieva [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Applications  Places  Terminal  en  Sat 11:52  [network] [volume] [power]
quest@rmkhizrieva:~
File  Edit  View  Search  Terminal  Help
[quest@rmkhizrieva ~]$ lsattr /home/quest/dir1/file1
----- /home/quest/dir1/file1
[quest@rmkhizrieva ~]$
```

2. Установка прав и расширенных атрибутов на файл file1



```
rmkizrieva [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Applications  Places  Terminal  en  Sat 11:55
quest@rmkhizrieva:~/dir1
File  Edit  View  Search  Terminal  Help
[quest@rmkhizrieva dir1]$ pwd
/home/quest/dir1
[quest@rmkhizrieva dir1]$ chmod 600 file1
[quest@rmkhizrieva dir1]$ chattr +a /home/quest/dir1/file1
chattr: Operation not permitted while setting flags on /home/quest/dir1/file1
[quest@rmkhizrieva dir1]$
```

3. Установка расширенных атрибутов на файл file1 от имени суперпользователя



The screenshot shows a terminal window titled "rmkizrieva [Работает] - Oracle VM VirtualBox". The window has a menu bar with "Файл", "Машина", "Вид", "Ввод", "Устройства", and "Справка". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal" buttons, along with system status icons (language "en", date "Sat 12:00", network, audio, and power). The terminal prompt is "quest@rmkhizrieva:~/dir1". The user enters the command "su root", followed by "Password:". The prompt changes to "[root@rmkhizrieva dir1]#", and the user enters the command "sudo chatter +a /home/quest/dir1/file1".

```
rmkizrieva [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Applications  Places  Terminal  en  Sat 12:00
quest@rmkhizrieva:~/dir1
File  Edit  View  Search  Terminal  Help
[quest@rmkhizrieva dir1]$ su root
Password:
[root@rmkhizrieva dir1]# sudo chatter +a /home/quest/dir1/file1
```

4. Расширенные атрибуты файла file1

```
[root@rmkhizrieva dir1]# su quest  
[quest@rmkhizrieva dir1]$ lsattr /home/quest/dir1/file1  
-----a----- /home/quest/dir1/file1  
[quest@rmkhizrieva dir1]$ █
```



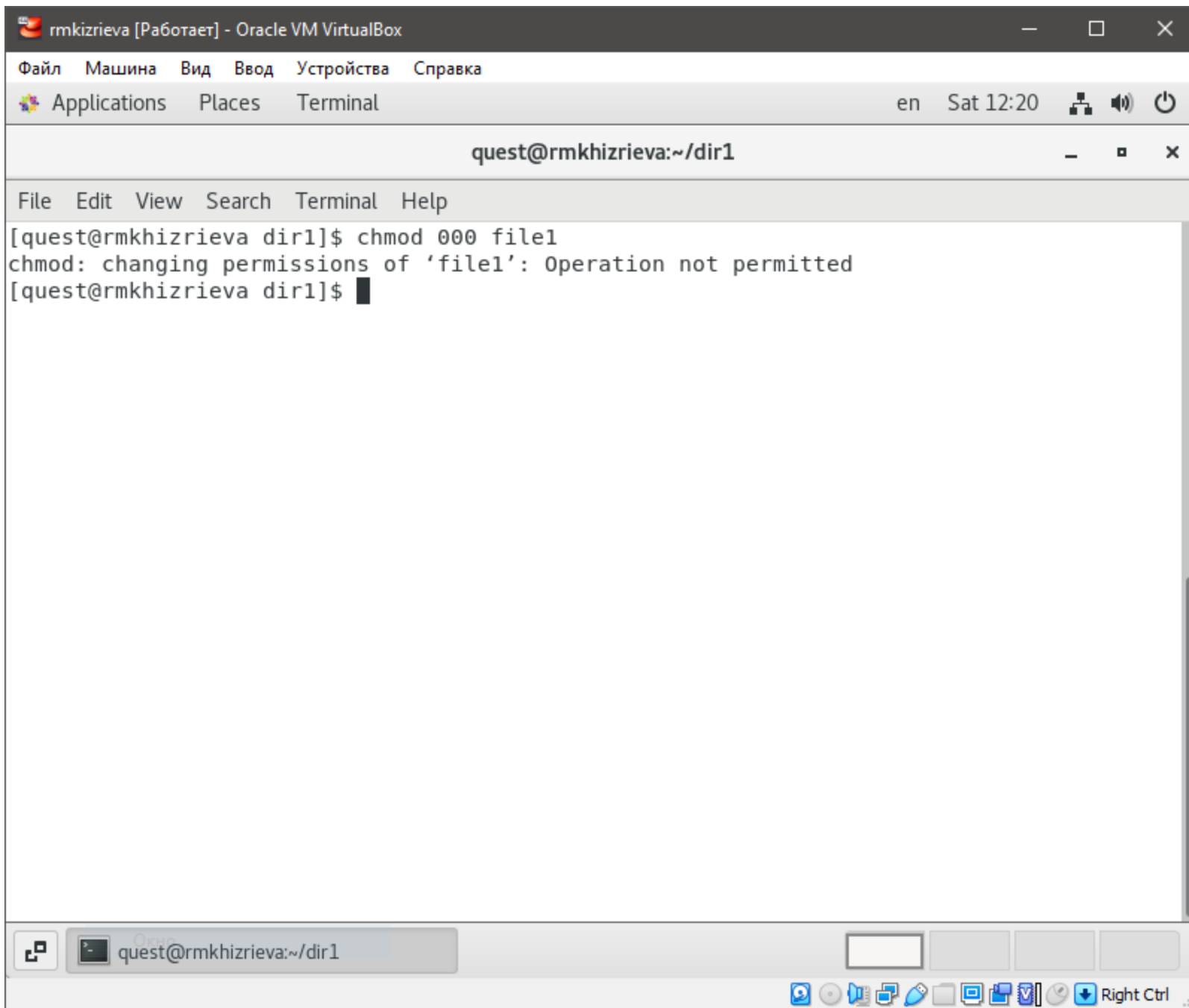
5. Дозапись в файл file1 слова «test»

```
[quest@rmkhizrieva dir1]$ echo "test" >> file1  
[quest@rmkhizrieva dir1]$ cat file1  
test  
[quest@rmkhizrieva dir1]$ █
```


6. Удаление и переименование файла file1

```
[quest@rmkhizrieva dir1]$ echo "abcd" > file1
bash: file1: Operation not permitted
[quest@rmkhizrieva dir1]$ mv file1 mewfile1
mv: cannot move 'file1' to 'mewfile1': Operation not permitted
[quest@rmkhizrieva dir1]$ █
```

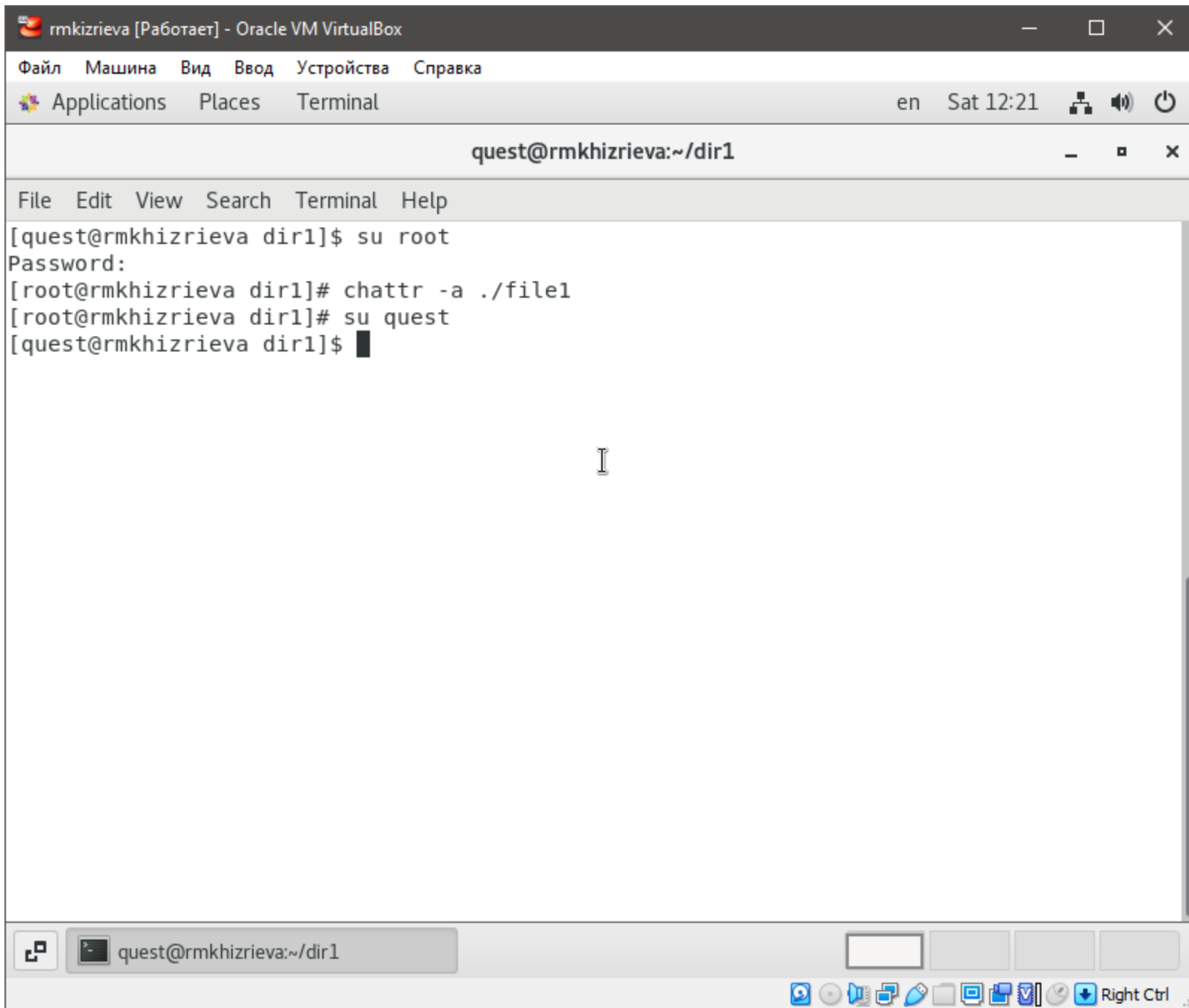
7. Установка на файл прав, запрещающих чтение/запись для владельца файла



The screenshot shows a terminal window titled "rmkizrieva [Работает] - Oracle VM VirtualBox". The window has a menu bar with "Файл", "Машина", "Вид", "Ввод", "Устройства", and "Справка". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal". The terminal title bar shows "quest@rmkhizrieva:~/dir1". The terminal content shows the command `chmod 000 file1` being executed, followed by the error message `chmod: changing permissions of 'file1': Operation not permitted`. The terminal has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The bottom of the window shows a taskbar with various icons and a "Right Ctrl" button.

```
rmkizrieva [Работает] - Oracle VM VirtualBox
Файл  Машина  Вид  Ввод  Устройства  Справка
Applications  Places  Terminal  en  Sat 12:20
quest@rmkhizrieva:~/dir1
File  Edit  View  Search  Terminal  Help
[quest@rmkhizrieva dir1]$ chmod 000 file1
chmod: changing permissions of 'file1': Operation not permitted
[quest@rmkhizrieva dir1]$
```

8. Снятие расширенного атрибута

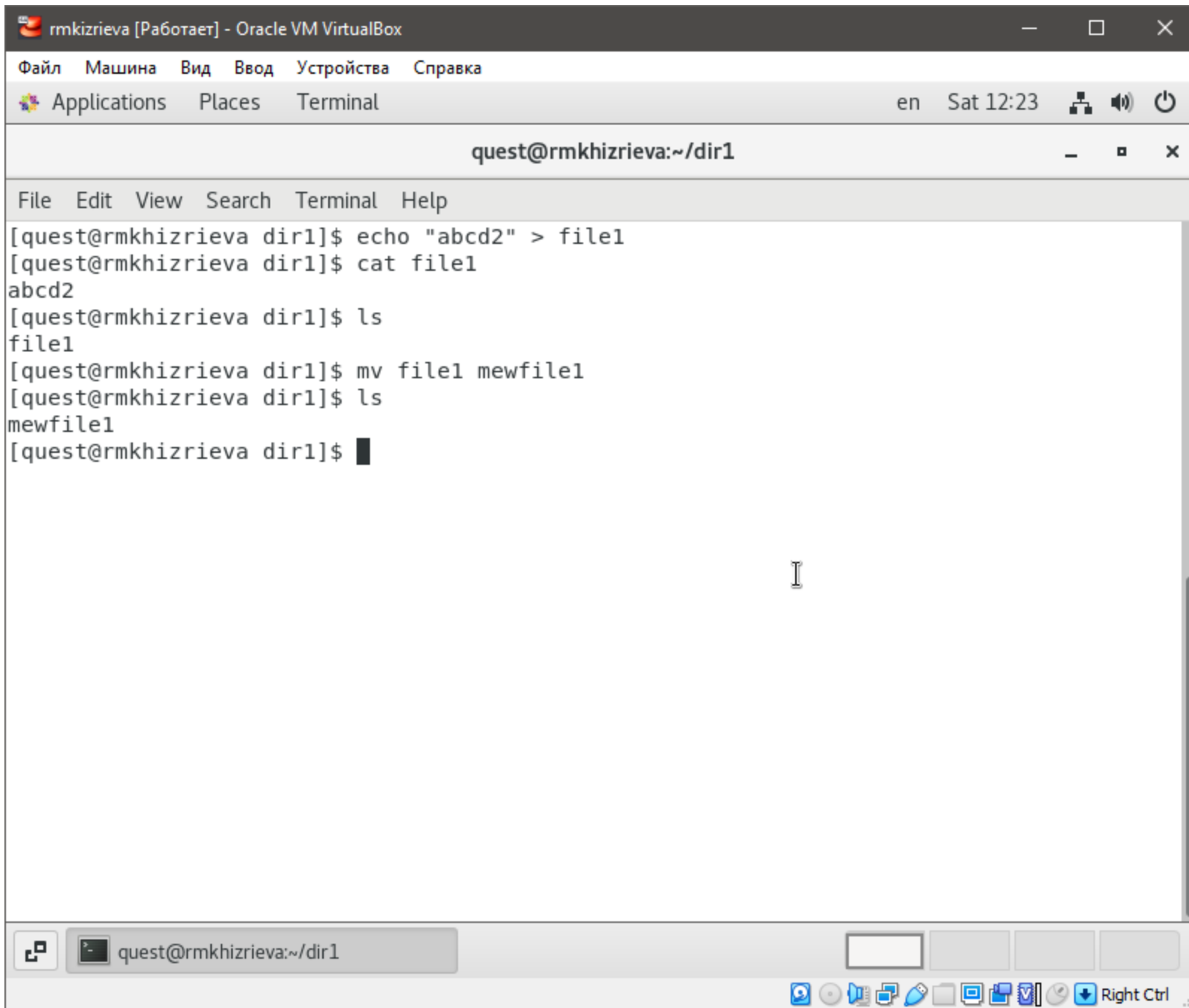


The screenshot shows a terminal window titled "rmkizrieva [Работает] - Oracle VM VirtualBox". The terminal has a menu bar with "Файл", "Машина", "Вид", "Ввод", "Устройства", and "Справка". Below the menu bar, there are tabs for "Applications", "Places", and "Terminal", along with system status icons (language: en, date: Sat 12:21, network, volume, power). The terminal window itself has a title bar "quest@rmkhizrieva:~/dir1" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the following commands and output:

```
[quest@rmkhizrieva dir1]$ su root
Password:
[root@rmkhizrieva dir1]# chatter -a ./file1
[root@rmkhizrieva dir1]# su quest
[quest@rmkhizrieva dir1]$
```

The terminal window has a status bar at the bottom with a tab labeled "quest@rmkhizrieva:~/dir1" and a system tray with various icons and a "Right Ctrl" button.

После повторила операции, которые ранее не удалось выполнить.



The screenshot shows a terminal window titled "rmkizrieva [Работает] - Oracle VM VirtualBox". The window has a menu bar with "Файл", "Машина", "Вид", "Ввод", "Устройства", and "Справка". Below the menu bar is a toolbar with "Applications", "Places", and "Terminal". The terminal itself has a title bar "quest@rmkhizrieva:~/dir1" and a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal content shows the following commands and outputs:

```
[quest@rmkhizrieva dir1]$ echo "abcd2" > file1
[quest@rmkhizrieva dir1]$ cat file1
abcd2
[quest@rmkhizrieva dir1]$ ls
file1
[quest@rmkhizrieva dir1]$ mv file1 mewfile1
[quest@rmkhizrieva dir1]$ ls
mewfile1
[quest@rmkhizrieva dir1]$
```

The terminal window has a scrollbar on the right side. At the bottom of the window, there is a taskbar with several icons, including a network icon, a volume icon, a power icon, and a "Right Ctrl" button.

Выводы

В ходе выполнения лабораторной работы были получены практические навыки работы в консоли с расширенными атрибутами файлов.

