

Дискреционное разграничение прав в Linux. Основные атрибуты

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Цели и задачи работы

Цель лабораторной работы

Получение практических навыков работы в консоли с атрибутами файлов для групп пользователей.

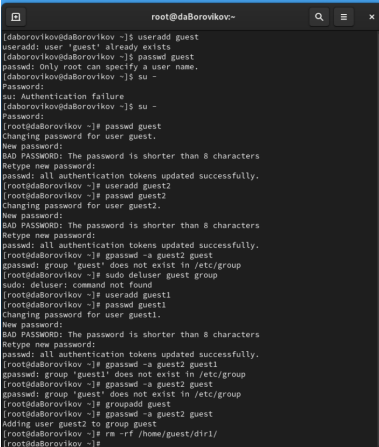
Процесс выполнения лабораторной работы

Определяем UID и группу двух пользователей

[illegible]

Figure 1: Информация о пользователях

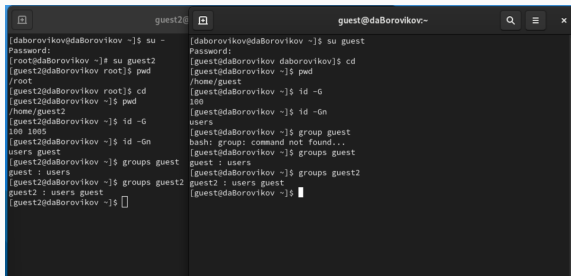
файл с данными о пользователях

A terminal window titled 'root@daBorovikov:~' with search, menu, and close icons. It shows a series of commands and their outputs for managing users and groups. The commands include 'useradd', 'passwd', 'su', 'gpasswd', and 'rm'. The outputs show messages about existing users, password requirements, and group creation. The terminal text is as follows:

```
root@daBorovikov:~  
[daborovikov@daBorovikov ~]$ useradd guest  
useradd: user 'guest' already exists  
[daborovikov@daBorovikov ~]$ passwd guest  
passwd: Only root can specify a user name.  
[daborovikov@daBorovikov ~]$ su -  
Password:  
su: Authentication failure  
[daborovikov@daBorovikov ~]$ su -  
Password:  
[root@daBorovikov ~]# passwd guest  
Changing password for user guest.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@daBorovikov ~]# useradd guest2  
[root@daBorovikov ~]# passwd guest2  
Changing password for user guest2.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@daBorovikov ~]# gpasswd -a guest2 guest  
gpasswd: group 'guest' does not exist in /etc/group  
[root@daBorovikov ~]# sudo deluser guest group  
sudo: deluser: command not found  
[root@daBorovikov ~]# useradd guest1  
[root@daBorovikov ~]# passwd guest1  
Changing password for user guest1.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@daBorovikov ~]# gpasswd -a guest2 guest1  
gpasswd: group 'guest1' does not exist in /etc/group  
[root@daBorovikov ~]# gpasswd -a guest2 guest  
gpasswd: group 'guest' does not exist in /etc/group  
[root@daBorovikov ~]# groupadd guest  
[root@daBorovikov ~]# gpasswd -a guest2 guest  
Adding user guest2 to group guest  
[root@daBorovikov ~]# rm -rf /home/guest/dir1/  
[root@daBorovikov ~]#
```

Figure 2: Содержимое файла /etc/group

Атрибуты директории



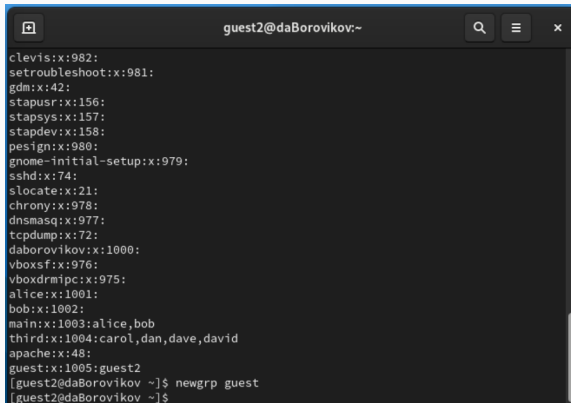
The image shows two terminal windows side-by-side. The left window is titled 'guest2@' and the right window is titled 'guest@daBorovikov:~'. Both windows show a sequence of commands and their outputs, demonstrating the process of removing directory attributes.

```
guest2@daborovikov~]$ su -
Password:
[root@daborovikov ~]# su guest2
[guest2@daborovikov root]$ pwd
/root
[guest2@daborovikov root]$ cd
[guest2@daborovikov ~]$ pwd
/home/guest2
[guest2@daborovikov ~]$ id -G
100 1000
[guest2@daborovikov ~]$ id -Gn
users guest
[guest2@daborovikov ~]$ groups guest
guest : users
[guest2@daborovikov ~]$ groups guest2
guest2 : users guest
[guest2@daborovikov ~]$

guest@daborovikov~]$ su guest
Password:
[guest@daborovikov daborovikov]$ cd
[guest@daborovikov ~]$ pwd
/home/guest
[guest@daborovikov ~]$ id -G
100
[guest@daborovikov ~]$ id -Gn
users
[guest@daborovikov ~]$ group guest
bash: group: command not found...
[guest@daborovikov ~]$ groups guest
guest : users
[guest@daborovikov ~]$ groups guest2
guest2 : users guest
[guest@daborovikov ~]$
```

Figure 3: Снятие атрибутов с директории

Права и разрешенные действия

A terminal window titled 'guest2@daBorovikov:~' with search, menu, and close buttons in the title bar. The terminal displays a list of system users and their IDs, followed by a command to create a new group and a confirmation message.

```
guest2@daBorovikov:~  
clevis:x:982:  
setrouleshoot:x:981:  
gdm:x:42:  
stapusr:x:156:  
stapsys:x:157:  
stapdev:x:158:  
pesign:x:980:  
gnome-initial-setup:x:979:  
sshd:x:74:  
slocate:x:21:  
chrony:x:978:  
dnsmasq:x:977:  
tcpdump:x:72:  
daborovikov:x:1000:  
vboxsf:x:976:  
vboxdrmpc:x:975:  
alice:x:1001:  
bob:x:1002:  
main:x:1003:alice,bob  
third:x:1004:carol,dan,dave,david  
apache:x:48:  
guest:x:1005:guest2  
[guest2@daBorovikov ~]$ newgrp guest  
[guest2@daBorovikov ~]$
```

Figure 4: Минимальные права для совершения операций

Выводы по проделанной работе

В ходе выполнения работы, мы смогли приобрести практические навыки работы в консоли с атрибутами файлов для групп пользователей.