

Лабораторная работа №2

Дискреционное разграничение прав в Linux. Основные атрибуты

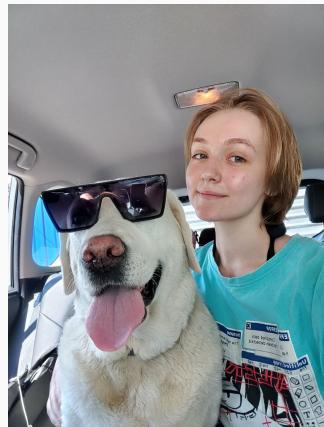
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Информация

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Вводная часть

1. Ознакомление с основными командами терминала
2. Заполнение таблицы «Установленные права и разрешённые действия»
3. Заполнение таблицы «Минимальные права для совершения операций»

Ознакомление с основными командами терминала

```
[eakarpova@eakarpova ~]$ sudo passwd guest
Changing password for user guest.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
```



eakarpova



guest



username

Not listed?




```
[guest@eakarpova ~]$ pwd  
/home/guest
```

```
[guest@eakarpova ~]$ id
uid=1002(guest) gid=1002(guest) groups=1002(guest),10(wheel) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[guest@eakarpova ~]$ groups
guest wheel
```

```
[guest@eakarpova ~]$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
```

```
guest:x:1002:1002:/:/home/guest:/bin/bash  
[guest@eakarpova ~]$ cat /etc/passwd | grep guest  
guest:x:1002:1002:/:/home/guest:/bin/bash
```

```
[guest@eakarpova ~]$ ls -l /home/  
total 8  
drwx-----. 15 eakarpova eakarpova 4096 Feb 15 09:08 eakarpova  
drwx-----. 15 guest      guest      4096 Feb 18 19:07 guest  
drwx-----.  3 username  username   78 Feb 14 23:16 username
```

```
[guest@eakarpova ~]$ lsattr /home
lsattr: Permission denied While reading flags on /home/eakarpova
lsattr: Permission denied While reading flags on /home/username
----- /home/guest
```

```
[guest@eakarpova ~]$ mkdir dir1
[guest@eakarpova ~]$ ls -l
total 0
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Desktop
drwxrwxr-x. 2 guest guest 6 Feb 18 19:17 dir1
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Documents
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Downloads
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Music
drwxr-xr-x. 2 guest guest 53 Feb 18 19:11 Pictures
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Public
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Templates
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Videos
[guest@eakarpova ~]$ lsattr /home
lsattr: Permission denied While reading flags on /home/eakarpova
lsattr: Permission denied While reading flags on /home/username
----- /home/guest
```

```
[guest@eakarpova ~]$ chmod 000 dir1  
[guest@eakarpova ~]$ ls -l  
total 0  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Desktop  
d----- . 2 guest guest 6 Feb 18 19:17 dir1  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Documents  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Downloads  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Music  
drwxr-xr-x. 2 guest guest 53 Feb 18 19:11 Pictures  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Public  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Templates  
drwxr-xr-x. 2 guest guest 6 Feb 18 19:07 Videos
```



```
[guest@eakarpova ~]$ echo "test" > /home/guest/dir1/file1
bash: /home/guest/dir1/file1: Permission denied
[guest@eakarpova ~]$ ls -l /home/guest/dir1
ls: cannot open directory '/home/guest/dir1': Permission denied
```

Заполнение таблицы

```
[guest@eakarpova ~]$ chmod 100 dir1
[guest@eakarpova ~]$ chmod 100 ~/dir1 test
[guest@eakarpova ~]$ echo 'test' > dir1/test
bash: dir1/test: Permission denied
[guest@eakarpova ~]$ rm ~/dir1/test
rm: remove write-protected regular empty file '/home/guest/dir1/test'? n
[guest@eakarpova ~]$ rm ~/dir1/test
rm: remove write-protected regular empty file '/home/guest/dir1/test'? y
rm: cannot remove '/home/guest/dir1/test': Permission denied
[guest@eakarpova ~]$ cat ~/dir1/test
cat: /home/guest/dir1/test: Permission denied
[guest@eakarpova ~]$ mv ~/dir1/test ~
mv: replace '/home/guest/test', overriding mode 0100 (--x-----)? y
mv: cannot move '/home/guest/dir1/test' to '/home/guest/test': Permission denied
[guest@eakarpova ~]$ ls dir1
ls: cannot open directory 'dir1': Permission denied
[guest@eakarpova ~]$ cd ~/dir1/test ~
bash: cd: too many arguments
[guest@eakarpova ~]$ cd ~/dir1/test
bash: cd: /home/guest/dir1/test: Not a directory
[guest@eakarpova ~]$ cd ~/dir1
```

В ходе лабораторной работы я получила практические навыки работы в консоли с атрибутами файлов, закрепила теоретические основы дискреционного разграничения доступа в современных системах с открытым кодом на базе ОС Linux