

# 9. Права в файловой системе

## Управление разрешениями

Просмотр разрешений:

```
ls -la folder
```

```
[agritsenko@alma-01 ~]$ ls -l /run/
total 28
-rw-----. 1 root root 0 Jan 11 11:28 agetty.reload
-rw-r--r--. 1 root root 5 Jan 11 11:28 atd.pid
-rw-r--r--. 1 root root 4 Jan 11 11:28 auditd.pid
drwxr-xr-x. 2 root root 80 Jan 11 11:34 blkid
drwxr-x---. 2 chorny chorny 80 Jan 11 11:28 chorny
drwxr-xr-x. 2 root root 60 Jan 11 11:28 chorny-helper
drwxr-xr-x. 2 root root 100 Jan 11 11:28 cockpit
drwxr-xr-x. 2 root root 40 Jan 11 11:28 console
drwxr-xr-x. 2 root root 40 Jan 11 11:28 criu
-----. 1 root root 0 Jan 11 11:28 cron.reboot
drwx-----. 2 root root 40 Jan 11 11:28 cryptsetup
drwxr-xr-x. 2 root root 60 Jan 11 11:28 dbus
prw-----. 1 root root 0 Jan 11 11:28 dmeventd-client
prw-----. 1 root root 0 Jan 11 11:28 dmeventd-server
drwxr-xr-x. 2 root root 40 Jan 11 11:28 faillock
drwxr-x---. 2 root root 40 Jan 11 11:28 firewalld
prw-----. 1 root root 0 Jan 11 11:28 initctl
drwxr-xr-x. 4 root root 120 Jan 11 11:28 initramfs
drwxr-xr-x. 6 root root 160 Jan 11 11:28 lock
drwxr-xr-x. 3 root root 60 Jan 11 11:28 log
drwxrwxr-x. 3 root libstoragemgmt 60 Jan 11 11:28 lsm
drwx-----. 5 root root 140 Jan 11 11:28 lvm
srwxr-xr-x. 1 root root 0 Jan 11 11:28 mcelog-client
-rw-r--r--. 1 root root 4 Jan 11 11:28 mcelog.pid
```

Annotations in the image:  
- Red arrows point to the 'root' and 'chorny' entries in the 'root' and 'chorny' columns, labeled 'username' and 'groupname' respectively.  
- A red box highlights the permissions 'drwxr-xr-x' for the 'cockpit' entry, labeled 'attributes'.

Смена владельца:

```
chown username:group filename
#recursive
chown -r username:group folder

#Set owner to file2 same as file1
chown --reference=file1 file2
```

Смена разрешений:

```
chmod 0777 filename
#recursive
chmod 0777 folder
#Set execution bit
chmod +x filename
#Execute bit for all
chmod a+x filename
```

```
#Execute bit fo user (owner)
chmod u+x filename
#Execute bit fo group
chmod g+x filename
```

#Grant read and write access for all chmod a+rw filename [Калькулятор разрешений](#)

## ACL

Установка дополнительных списков контроля доступа:

```
#For user
setfacl -m u:username:rwx
#For group
setfacl -m g:groupname:rwx
```

Установка ACL по умолчанию для файлов в директории

```
#For user
setfacl -m d:u:username:rwx
#For group
setfacl -m d:g:groupname:rwx
```

Вывести список ACL

```
getfacl filename
getfacl ./directory
```

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