Отчет

по лабораторной работе №3 «Управление пользователями, группами пользователей и правами на файлы и каталоги в Linux»

по дисциплине «**Администрирование Linux**»

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УНИВЕРСИТЕТ ИТМО

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Ход выполнения работы.

#1

```
[root@localhost lab4]# awk -F : '{print "user " $1 " has id " $3}' /etc/passwd > work3.log
[root@localhost lab4]# cat work3.log
user root has id 0
user bin has id 1
user daemon has id 2
user adm has id 3
user lp has id 4
user sync has id 5
user shutdown has id 6
user halt has id 7
user mail has id 8
user operator has id 11
user games has id 12
user ftp has id 14
user nobody has id 65534
user dbus has id 81
user systemd-coredump has id 999
user systemd-resolve has id 193
user tss has id 59
user polkitd has id 998
user libstoragemgmt has id 997
user rpc has id 32
user gluster has id 996
user sssd has id 995
user cockpit-ws has id 994
user cockpit-wsinstance has id 993
user rpcuser has id 29
user sshd has id 74
user chrony has id 992
user avahi has id 70
user rngd has id 991
user user has id 1000
user u2 has id 1001
```

#2

```
[root@localhost lab4]# chage -l root | head -n 1 >> work3.log
[root@localhost lab4]# cat work3.log
user root has id 0
user bin has id 1
user daemon has id 2
user adm has id 3
user lp has id 4
user sync has id 5
user shutdown has id 6
user halt has id 7
user mail has id 8
user operator has id 11
user games has id 12
user ftp has id 14
user nobody has id 65534
user dbus has id 81
user systemd-coredump has id 999
user systemd-resolve has id 193
user tss has id 59
user polkitd has id 998
user libstoragemgmt has id 997
user rpc has id 32
user gluster has id 996
user sssd has id 995
user cockpit-ws has id 994
user cockpit-wsinstance has id 993
user rpcuser has id 29
user sshd has id 74
user chrony has id 992
user avahi has id 70
user rngd has id 991
user user has id 1000
user u2 has id 1001
Last password change                                    : never
```

#3

ORC = Output Record Separator

```
[root@localhost lab4]# awk -F : 'BEGIN{ORS=","} {print $1}' /etc/group
root,bin,daemon,sys,adm,tty,disk,lp,mem,kmem,wheel,cdrom,mail,man,dialout,floppy,games,tape,video,ft
p,lock,audio,users,nobody,dbus,utmp,utempter,input,kvm,render,systemd-journal,systemd-coredump,syste
md-resolve,tss,polkitd,libstoragemgmt,rpc,gluster,ssh_keys,sssd,cockpit-ws,cockpit-wsinstance,printa
```

#4

```
[root@localhost lab4]# echo "Be careful!" > /etc/skel/readme.txt
[root@localhost lab4]# ls -alrt /etc/skel
total 36
-rw-r--r--.  1 root root   312 Nov  8  2019 .bashrc
-rw-r--r--.  1 root root   141 Nov  8  2019 .bash_profile
-rw-r--r--.  1 root root    18 Nov  8  2019 .bash_logout
-rw-r--r--.  1 root root   658 Mar 20  2020 .zshrc
drwxr-xr-x. 92 root root 12288 Sep 23 10:40 ..
drwxr-xr-x.  2 root root  4096 Sep 23 11:08 .
-rw-r--r--.  1 root root    12 Sep 23 11:09 readme.txt
[root@localhost lab4]# ls /etc/s
ls: cannot access '/etc/s': No such file or directory
[root@localhost lab4]# ls /etc/skel/
readme.txt
[root@localhost lab4]# cat /etc/skel/readme.txt
Be careful!
```

#5

```
[root@localhost lab4]# useradd u1 -p $(openssl passwd -crypt 12345678)
```

#6

```
#6
groupadd g1
```

#7

```
[root@localhost lab4]# usermod -a -G g1 u1
```

#8

```
[root@localhost lab4]# id u1 >> work3.log
[root@localhost lab4]# id u1
uid=1002(u1) gid=1003(u1) groups=1003(u1),1001(g1)
```

#9

```
#9
usermod -a -G g1 user
```

#10

```
[root@localhost lab4]# grep '^g1' /etc/group | cut -d ':' -f4
user,u2,u1
[root@localhost lab4]# grep '^g1' /etc/group | cut -d ':' -f4 >> work3.log
```

#11

```
       -s, --shell SHELL
              The name of the user's new login shell. Setting this field to blank causes the system
              to select the default login shell.
```
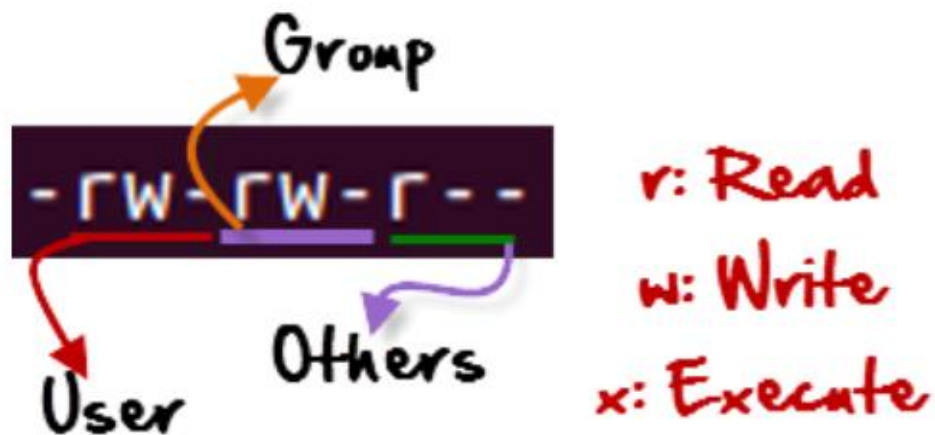
```
#11
usermod -s /usr/bin/mc u1
```

#12

```
#12
useradd u2 -p $(openssl passwd -crypt 87654321)
```

#13

```
#13
mkdir /home/test13
cp work3.log /home/test13/work3-1.log
cp work3.log /home/test13/work3-2.log
```

#14

Посмотрим на изначальные пермиссии

```
[root@localhost test13]# ls -l
total 8
-rw-r--r--. 1 root root 1118 Sep 23 12:14 work3-1.log
-rw-r--r--. 1 root root 1118 Sep 23 12:14 work3-2.log
```

Изменим

```
[root@localhost lab4]# chmod 640 -R /home/test13
```

После изменения

```
[root@localhost test13]# ls -l
total 8
-rw-r-----. 1 u1 u2 1118 Sep 23 12:14 work3-1.log
-rw-r-----. 1 u1 u2 1118 Sep 23 12:14 work3-2.log
```

#15

```
[root@localhost home]# ls -al
total 4
drwxr-xr-x.  8 root root    82 Sep 23 14:07 .
dr-xr-xr-x. 18 root root  4096 Sep 23 05:39 ..
drwxr-xr-x.  2 root root    56 Sep 23 04:14 my_tasks
drw-r-----.  2 u1   u2      44 Sep 23 12:14 test13
drwxr-xr-x.  2 root root     6 Sep 23 14:07 test14
drwx------.  2 u1   u1      94 Sep 23 12:14 u1
drwx------.  2 u2   u2      94 Sep 23 12:14 u2
drwx------.  6 user user   233 Sep 23 08:48 user
```

```
#15
mkdir /home/test14
chown u1:u1 /home/test14
chmod +t /home/test14
```

```
[root@localhost home]# ls -al
total 4
drwxr-xr-x.  8 root root    82 Sep 23 14:07 .
dr-xr-xr-x. 18 root root  4096 Sep 23 05:39 ..
drwxr-xr-x.  2 root root    56 Sep 23 04:14 my_tasks
drw-r-----.  2 u1   u2      44 Sep 23 12:14 test13
drwxr-xr-t.  2 u1   u1       6 Sep 23 14:07 test14
drwx------.  2 u1   u1      94 Sep 23 12:14 u1
drwx------.  2 u2   u2      94 Sep 23 12:14 u2
drwx------.  6 user user   233 Sep 23 08:48 user
```

#16

```
#16
cp /bin/nano /home/test14/nano.exe
chown u1:u1 /home/test14/nano.exe
chmod u+s /home/test14/nano.exe
```

```
[root@localhost test14]# ls -al
total 256
drwxr-xr-t. 2 u1   u1        22 Sep 23 14:25 .
drwxr-xr-x. 8 root root      82 Sep 23 14:25 ..
-rwsr-xr-x. 1 u1   u1    260848 Sep 23 14:25 nano.exe
```

#17

```
[root@localhost test15]# ls
[root@localhost test15]# ls -al
total 0
drwxr-xr-x. 2 root root 26 Sep 23 14:30 .
drwxr-xr-x. 9 root root 96 Sep 23 14:28 ..
-rw-r--r--. 1 root root  0 Sep 23 14:30 .secret_file
```

```
#17
mkdir /home/test15
touch /home/test15/.secret_file
chmod 111 /home/test15
chmod 444 /home/test15/.secret_file
```