

Лабораторная работа 2

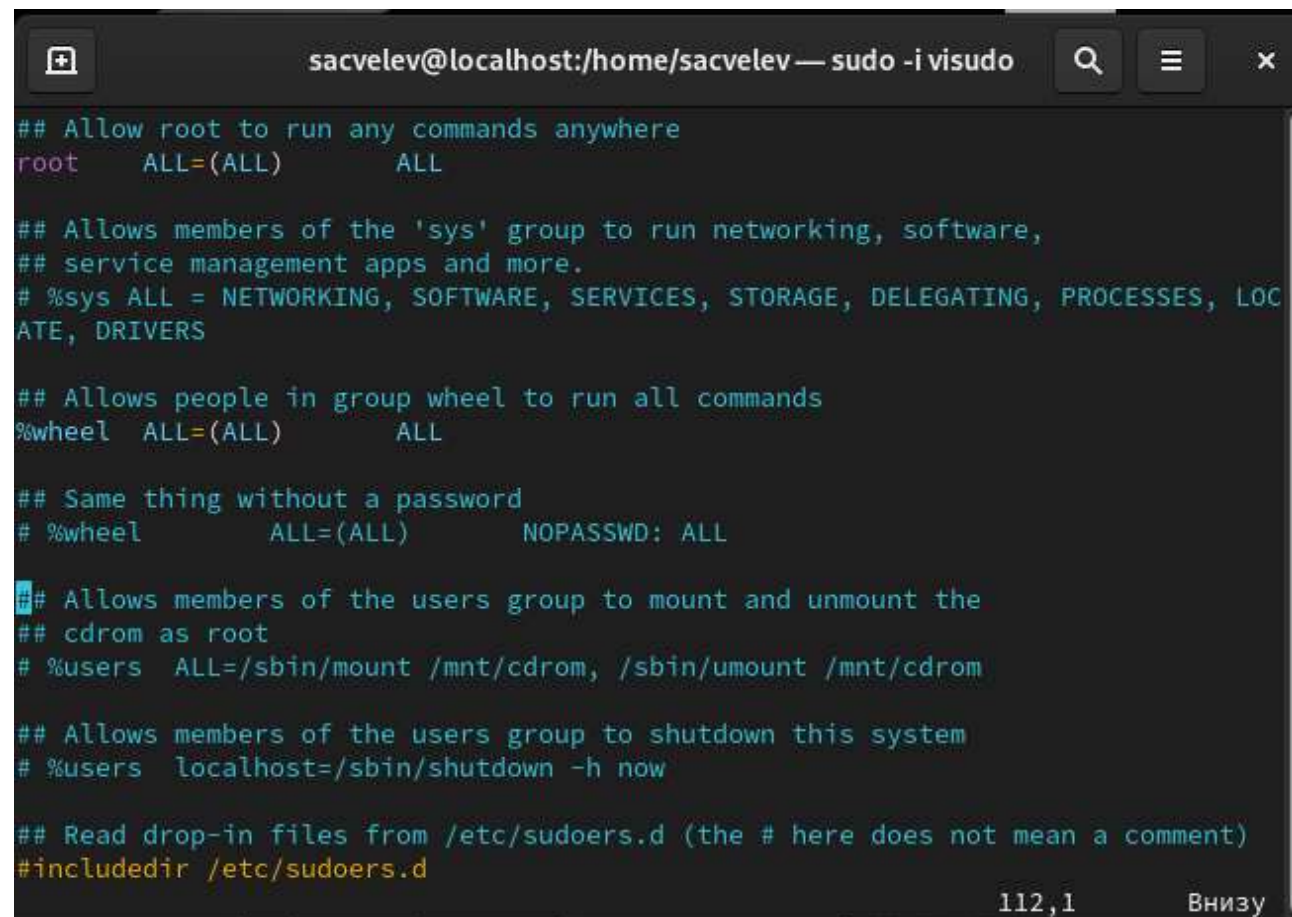
Управление пользователями и группами

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Цель работы

Получить представление о работе с учётными записями пользователей и группами пользователей в операционной системе типа Linux.

Проверка информации о пользователе



```
sacvelev@localhost:/home/sacvelev — sudo -i visudo
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL

## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOC
ATE, DRIVERS

## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)        ALL

## Same thing without a password
# %wheel    ALL=(ALL)        NOPASSWD: ALL

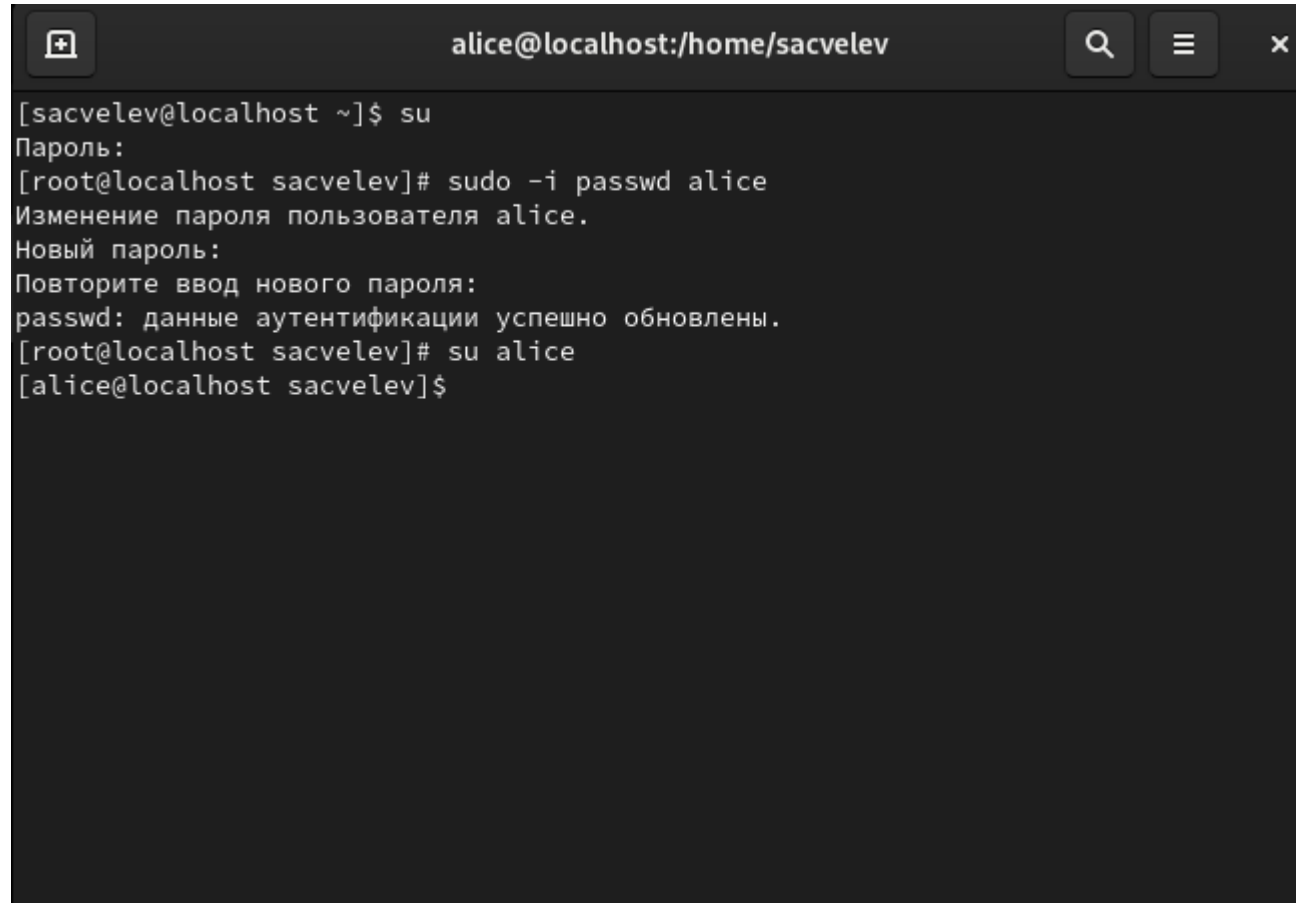
## Allows members of the users group to mount and unmount the
## cdrom as root
# %users    ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom

## Allows members of the users group to shutdown this system
# %users    localhost=/sbin/shutdown -h now

## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#include_dir /etc/sudoers.d

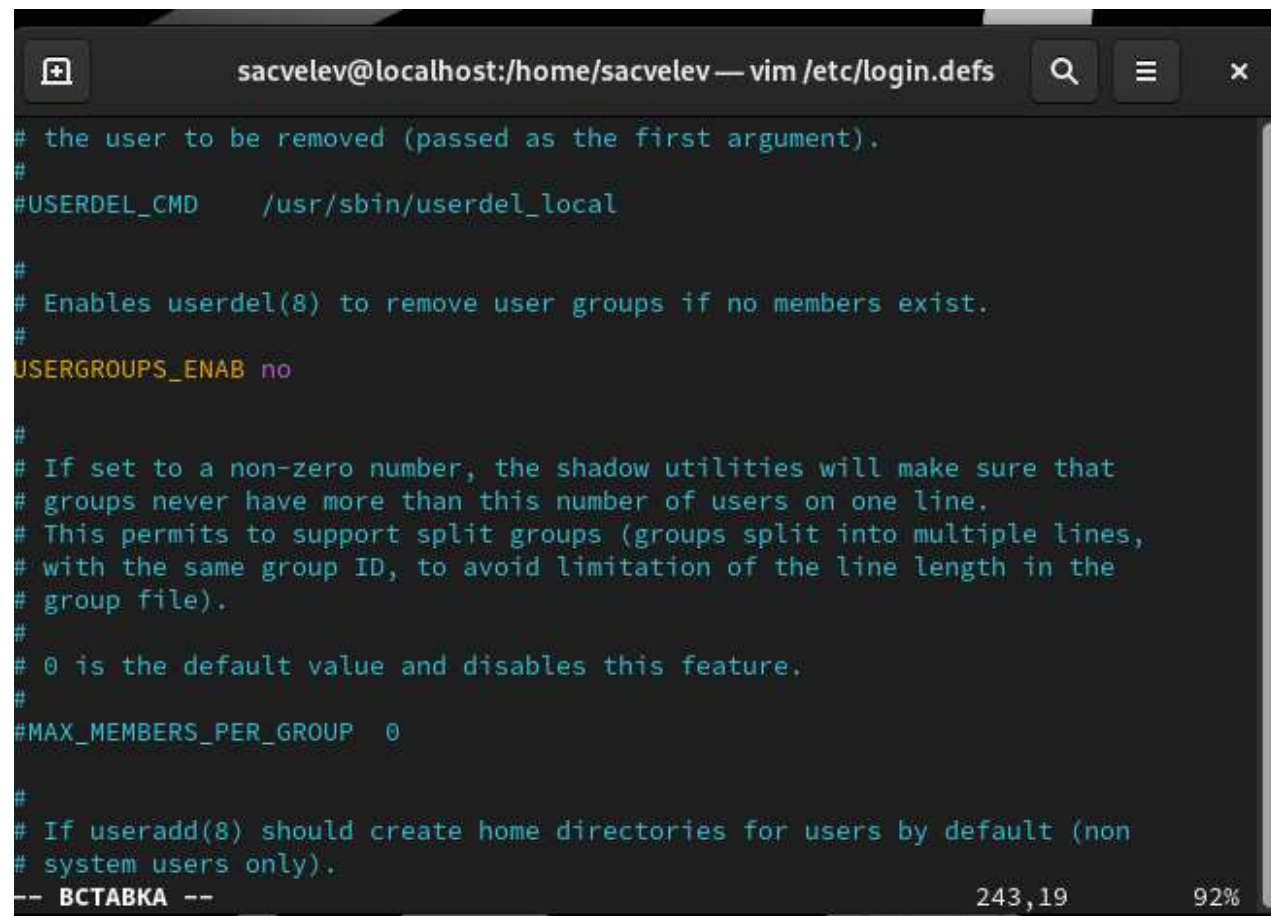
112,1      Вниз
```

Создание пользователя alice и выдача пароля



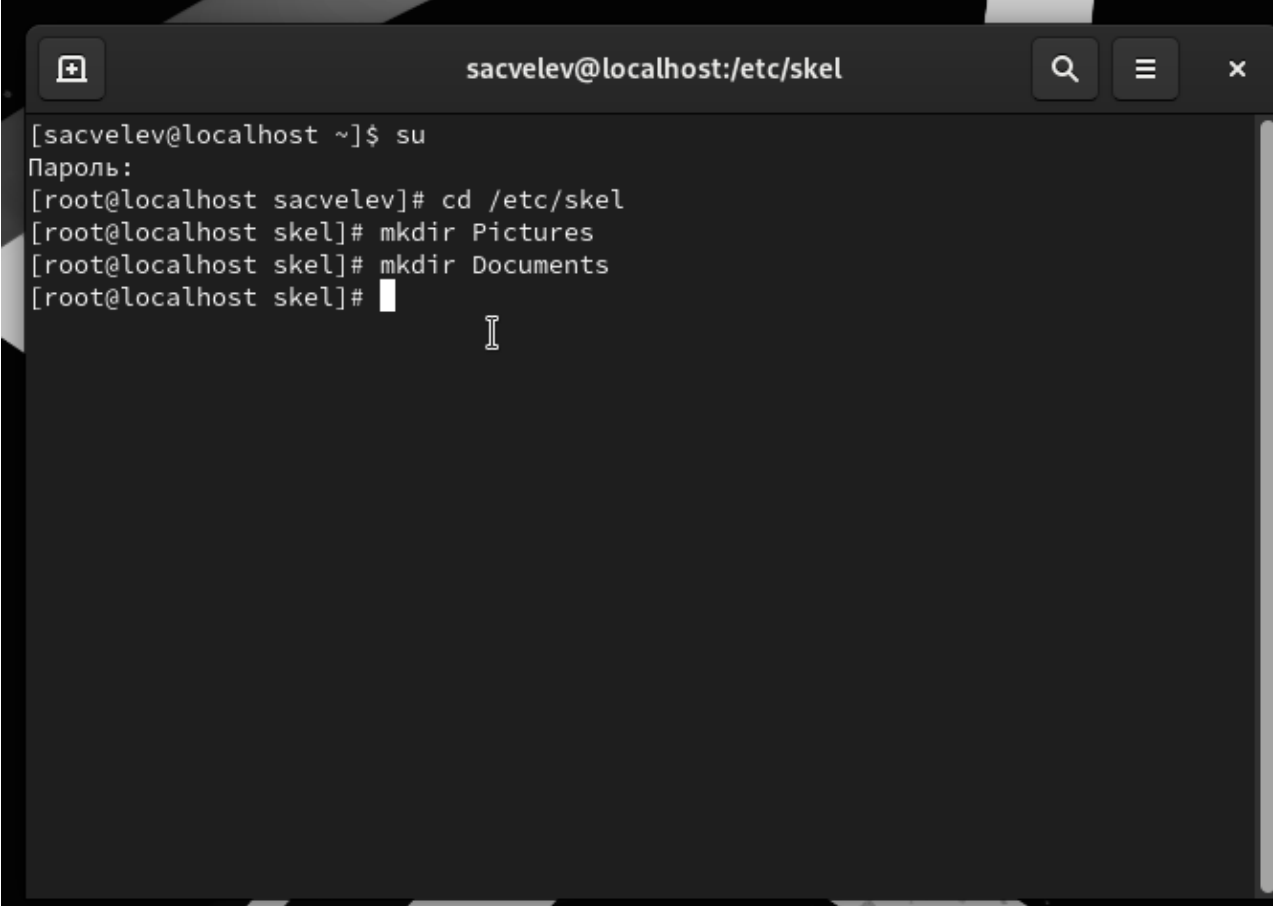
```
alice@localhost:/home/sacvelev
[sacvelev@localhost ~]$ su
Пароль:
[root@localhost sacvelev]# sudo -i passwd alice
Изменение пароля пользователя alice.
Новый пароль:
Повторите ввод нового пароля:
passwd: данные аутентификации успешно обновлены.
[root@localhost sacvelev]# su alice
[alice@localhost sacvelev]$
```

Редактирование файла /etc/login.defs



```
sacvelev@localhost:/home/sacvelev — vim /etc/login.defs
# the user to be removed (passed as the first argument).
#
#USERDEL_CMD    /usr/sbin/userdel_local
#
# Enables userdel(8) to remove user groups if no members exist.
#
USERGROUPS_ENAB no
#
# If set to a non-zero number, the shadow utilities will make sure that
# groups never have more than this number of users on one line.
# This permits to support split groups (groups split into multiple lines,
# with the same group ID, to avoid limitation of the line length in the
# group file).
#
# 0 is the default value and disables this feature.
#
#MAX_MEMBERS_PER_GROUP 0
#
# If useradd(8) should create home directories for users by default (non
# system users only).
-- ВСТАВКА --                               243,19          92%
```

Добавление каталогов в домашние каталоги пользователей

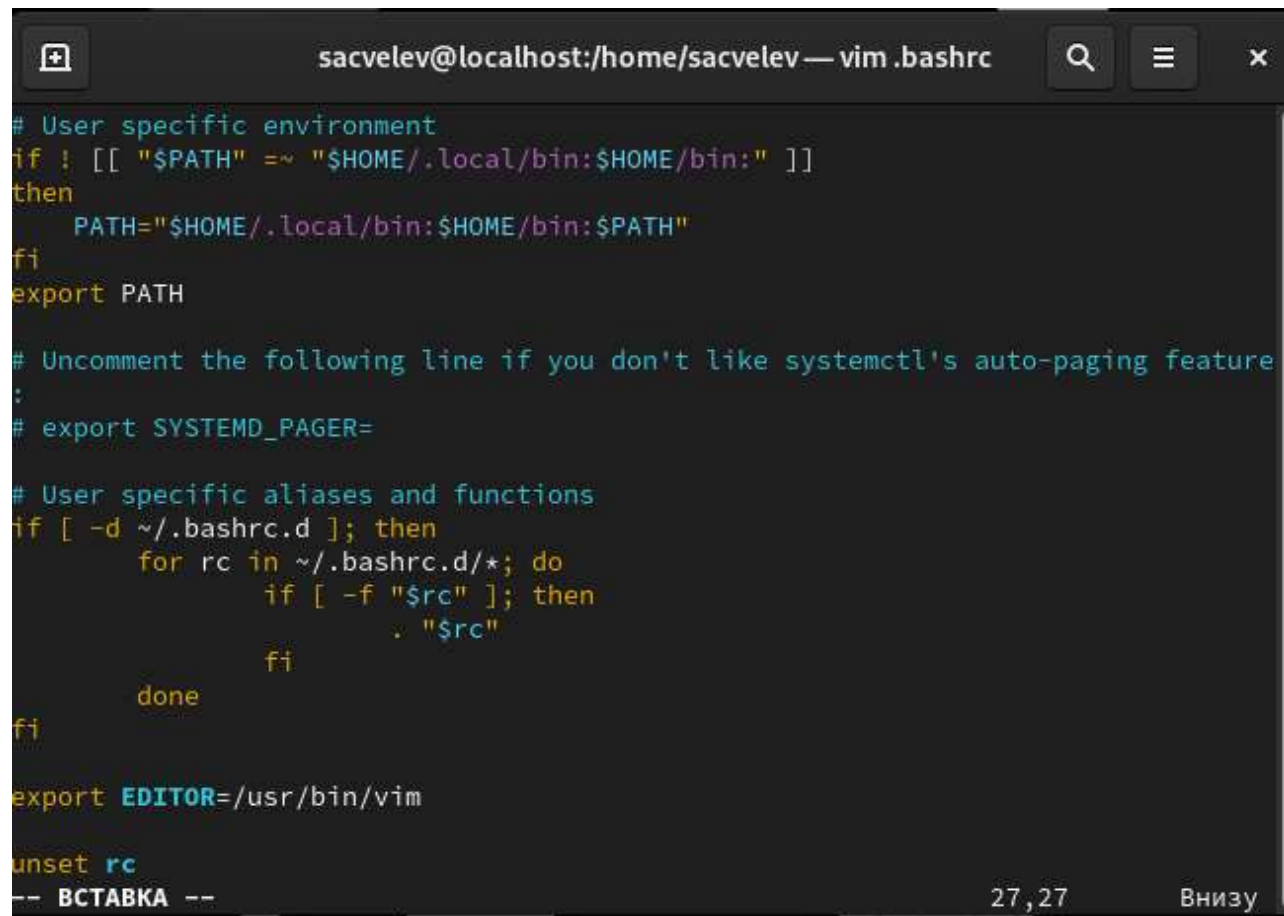


```
sacvelev@localhost:~/etc/skel

[sacvelev@localhost ~]$ su
Пароль:
[root@localhost sacvelev]# cd /etc/skel
[root@localhost skel]# mkdir Pictures
[root@localhost skel]# mkdir Documents
[root@localhost skel]#
```

The image shows a terminal window with a dark background. The title bar of the window reads "sacvelev@localhost:~/etc/skel". The terminal content shows a user named "sacvelev" at "localhost" in their home directory (~) using the "su" command to switch to the root user. After entering the password, the prompt changes to "[root@localhost sacvelev]#". The user then navigates to the "/etc/skel" directory using "cd /etc/skel". Finally, they create two new directories, "Pictures" and "Documents", using the "mkdir" command. The terminal ends with the prompt "[root@localhost skel]#" and a cursor.

Редактор vim делается основным

A screenshot of a terminal window with a dark background. The title bar at the top shows the user 'sacvelev' at 'localhost' in the directory '/home/sacvelev', editing the file '.bashrc' using 'vim'. The terminal displays the contents of the .bashrc file, which includes comments and code for setting the PATH, SYSTEMD_PAGER, and aliases. The code is color-coded: comments are green, keywords like 'if', 'then', 'fi', 'for', 'do', 'done', 'unset', and 'export' are yellow, and variable names like 'PATH', 'EDITOR', and 'rc' are blue. At the bottom of the terminal, the status line shows '-- ВСТАВКА --' (Insert mode), the cursor position '27,27', and the instruction 'Внизу' (Down).

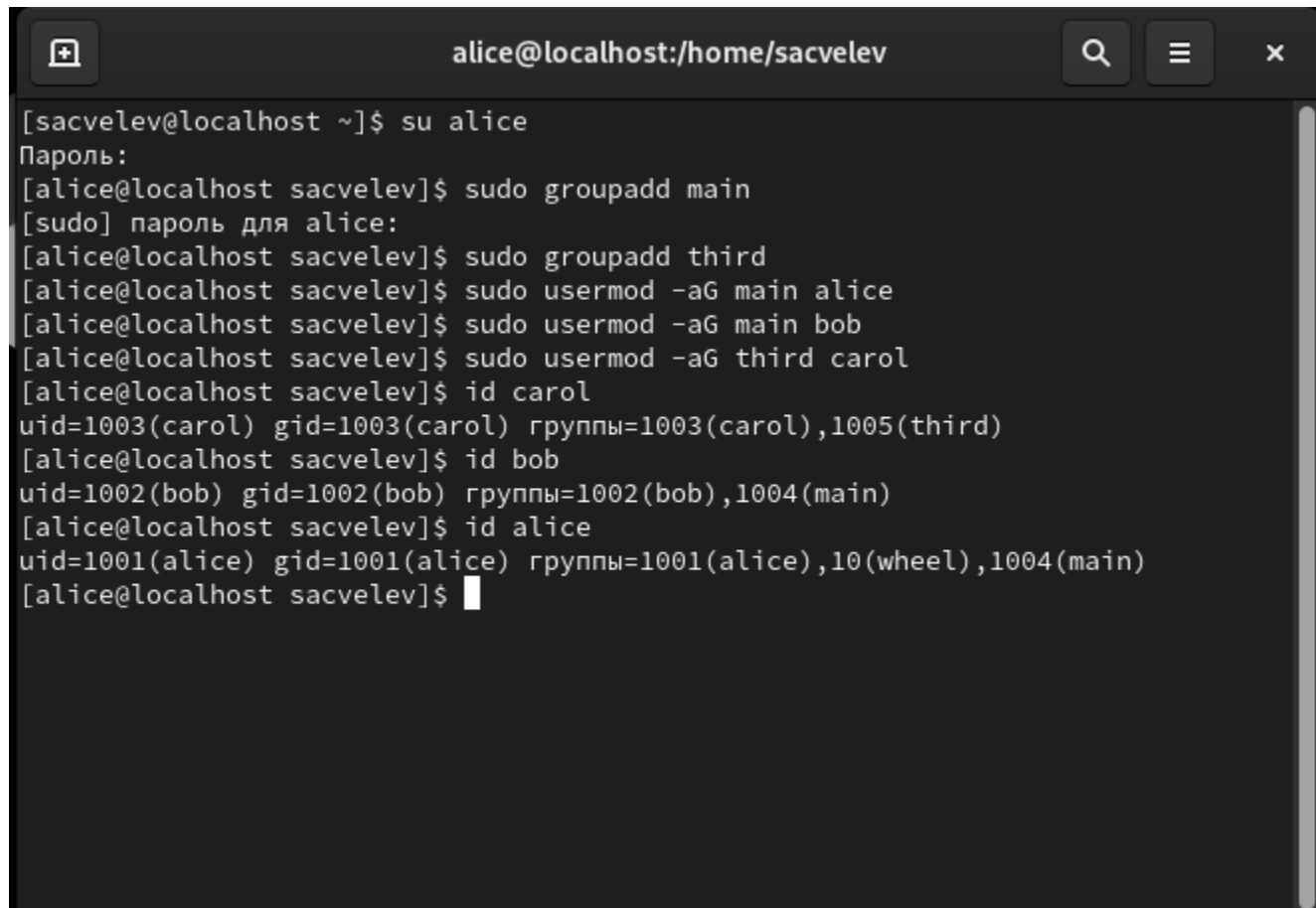
Создание пользователя carol

```
carol@localhost:~  
Пароль:  
[alice@localhost sacvelev]$ sudo -i useradd carol  
[sudo] пароль для alice:  
[alice@localhost sacvelev]$ sudo passwd carol  
Изменение пароля пользователя carol.  
Новый пароль:  
Повторите ввод нового пароля:  
passwd: данные аутентификации успешно обновлены.  
[alice@localhost sacvelev]$ su carol  
Пароль:  
[carol@localhost sacvelev]$ id  
uid=1003(carol) gid=1003(carol) группы=1003(carol) контекст=unconfined_u:unconfi  
ned_r:unconfined_t:s0-s0:c0.c1023  
[carol@localhost sacvelev]$ cd  
[carol@localhost ~]$ ls -Al  
итого 16  
-rw-r--r--. 1 carol carol 18 янв 24 2023 .bash_logout  
-rw-r--r--. 1 carol carol 141 янв 24 2023 .bash_profile  
-rw-r--r--. 1 carol carol 492 янв 24 2023 .bashrc  
drwxr-xr-x. 2 carol carol 6 янв 28 00:23 Documents  
drwxr-xr-x. 4 carol carol 39 янв 24 00:52 .mozilla  
drwxr-xr-x. 2 carol carol 6 янв 28 00:23 Pictures  
-rw-----. 1 carol carol 130 янв 28 00:55 .xauthPNsD6C  
[carol@localhost ~]$
```


Записи о пароле carol

```
alice@localhost:/home/sacvelev
[sacvelev@localhost ~]$ su alice
Пароль:
[alice@localhost sacvelev]$ sudo cat /etc/shadow | grep carol
[sudo] пароль для alice:
carol:$6$f2/vuUd4crum48eh$4YZT91HuHYa4FC2l1fPuAXL47GL2NPLxS0ln3xD/YvXWHiMfOb4K09
380sGzM0xF8tDm75L6UQy13a3ib.pHL1:19749:0:99999:7:::
[alice@localhost sacvelev]$ sudo passwd -n 30 -w 3 -x 90 carol
Устанавливаются параметры истечения срока действия для пользователя carol.
passwd: Успешно
[alice@localhost sacvelev]$ sudo cat /etc/shadow | grep carol
carol:$6$f2/vuUd4crum48eh$4YZT91HuHYa4FC2l1fPuAXL47GL2NPLxS0ln3xD/YvXWHiMfOb4K09
380sGzM0xF8tDm75L6UQy13a3ib.pHL1:19749:30:90:3:::
[alice@localhost sacvelev]$ grep alice /etc/passwd /etc/shadow /etc/group
/etc/passwd:alice:x:1001:1001::/home/alice:/bin/bash
grep: /etc/shadow: Отказано в доступе
/etc/group:wheel:x:10:alice
/etc/group:alice:x:1001:
[alice@localhost sacvelev]$ sudo grep carol /etc/passwd /etc/shadow /etc/group
/etc/passwd:carol:x:1003:1003::/home/carol:/bin/bash
/etc/shadow:carol:$6$f2/vuUd4crum48eh$4YZT91HuHYa4FC2l1fPuAXL47GL2NPLxS0ln3xD/Yv
XWHiMfOb4K09380sGzM0xF8tDm75L6UQy13a3ib.pHL1:19749:30:90:3:::
/etc/group:carol:x:1003:
[alice@localhost sacvelev]$
```

Группы пользователей



```
alice@localhost:/home/sacvelev
[sacvelev@localhost ~]$ su alice
Пароль:
[alice@localhost sacvelev]$ sudo groupadd main
[sudo] пароль для alice:
[alice@localhost sacvelev]$ sudo groupadd third
[alice@localhost sacvelev]$ sudo usermod -aG main alice
[alice@localhost sacvelev]$ sudo usermod -aG main bob
[alice@localhost sacvelev]$ sudo usermod -aG third carol
[alice@localhost sacvelev]$ id carol
uid=1003(carol) gid=1003(carol) группы=1003(carol),1005(third)
[alice@localhost sacvelev]$ id bob
uid=1002(bob) gid=1002(bob) группы=1002(bob),1004(main)
[alice@localhost sacvelev]$ id alice
uid=1001(alice) gid=1001(alice) группы=1001(alice),10(wheel),1004(main)
[alice@localhost sacvelev]$
```