

Лабораторная работа 2

Учётные записи пользователей и группы в Linux

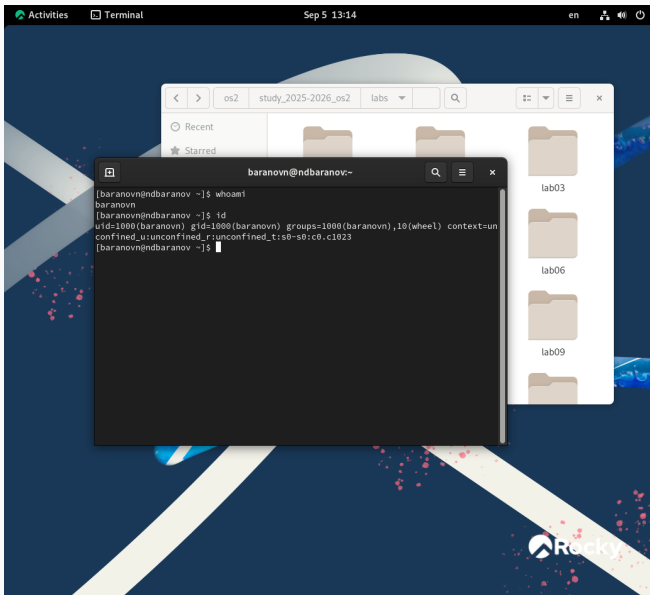
Баранов Никита Дмитриевич

Докладчик

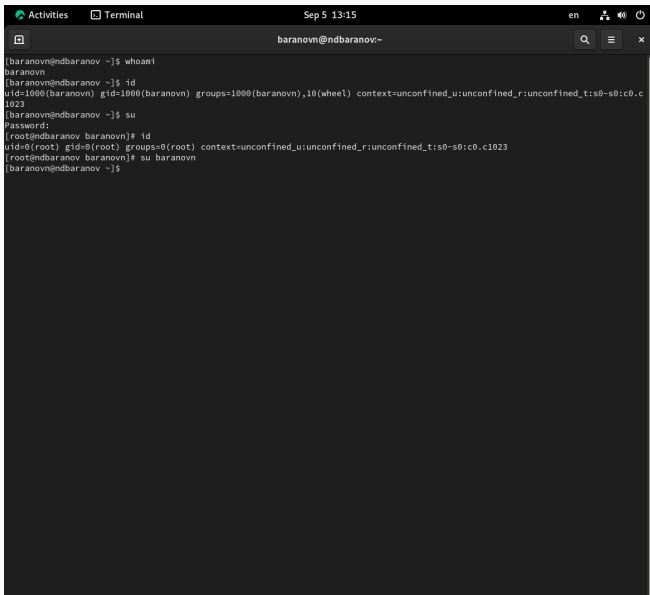
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Определяем учетную запись



Суперпользователь root



A terminal window titled 'Terminal' with a timestamp of 'Sep 5 13:15'. The window shows a user 'baranov' at host 'ndbaranov'. The user runs 'whoami' and 'id', showing they are a regular user. Then, they run 'su' and enter a password, becoming root. Finally, they run 'id' again, showing they are now root. The terminal output is as follows:

```
[baranov@ndbaranov ~]$ whoami
baranov
[baranov@ndbaranov ~]$ id
uid=1000(baranov) gid=1000(baranov) groups=1000(baranov),10(wheel) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[baranov@ndbaranov ~]$ su
Password:
[root@ndbaranov baranov]# id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[root@ndbaranov baranov]# su baranov
[baranov@ndbaranov ~]$
```

Просмотр sudoers

```

# Disable this option for new behavior.
Defaults    always_query_group_plugin

Defaults    env_reset
Defaults    env_keep = "COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS"
Defaults    env_keep += "MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE"
Defaults    env_keep += "LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES"
Defaults    env_keep += "LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE"
Defaults    env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY"

#
# Adding HOME to env_keep may enable a user to run unrestricted
# commands via sudo.
#
# Defaults    env_keep += "HOME"

Defaults    secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##     user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## 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, LOCATE, 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

```

Права группы wheel

```
Activities Terminal Sep 5 13:18 en [system icons] [power icon]
baranov@ndbaranov:~ — sudo -i visudo /etc/sudoers [search] [menu] [close]

# Disable this option for new behavior.
Defaults    always_query_group_plugin

Defaults    env_reset
Defaults    env_keep = "COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS"
Defaults    env_keep += "MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE"
Defaults    env_keep += "LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES"
Defaults    env_keep += "LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE"
Defaults    env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY"

#
# Adding HOME to env_keep may enable a user to run unrestricted
# commands via sudo.
#
# Defaults    env_keep += "HOME"

Defaults    secure_path = /sbin:/bin:/usr/sbin:/usr/bin

## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##     user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## 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, LOCATE, DRIVERS

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

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

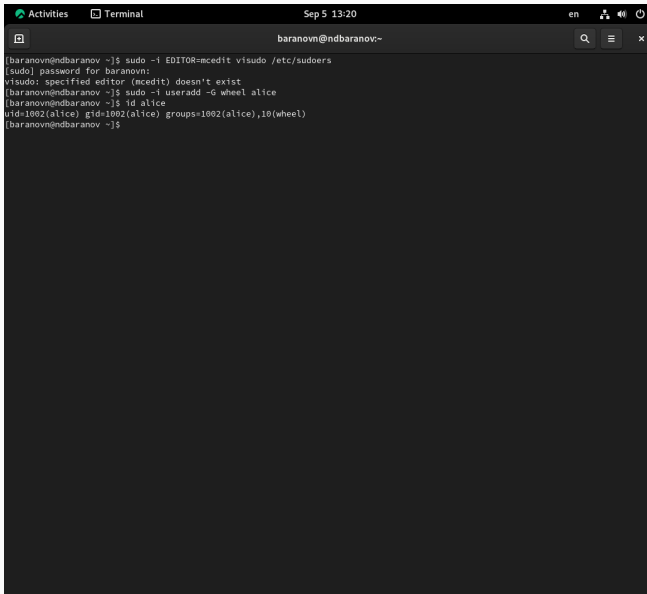
## Allows members of the users group to mount and unmount the
## cdrom as root
#users   ALL=/sbin/mount /mnt/cdrom, /sbin/unmount /mnt/cdrom

## 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)
#included /etc/sudoers.d

-- INSERT --
```

Создание пользователя alice

A terminal window titled 'Terminal' with a timestamp of 'Sep 5 13:20'. The window shows a series of commands and their outputs. The user 'baranov' is at the prompt. They run 'sudo -i EDITOR=mcedit visudo /etc/sudoers', which prompts for a password and then reports that 'mcedit' is not found. Then they run 'sudo -i useradd -G wheel alice'. Finally, they run 'id alice', which outputs the user's details: 'uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel)'.

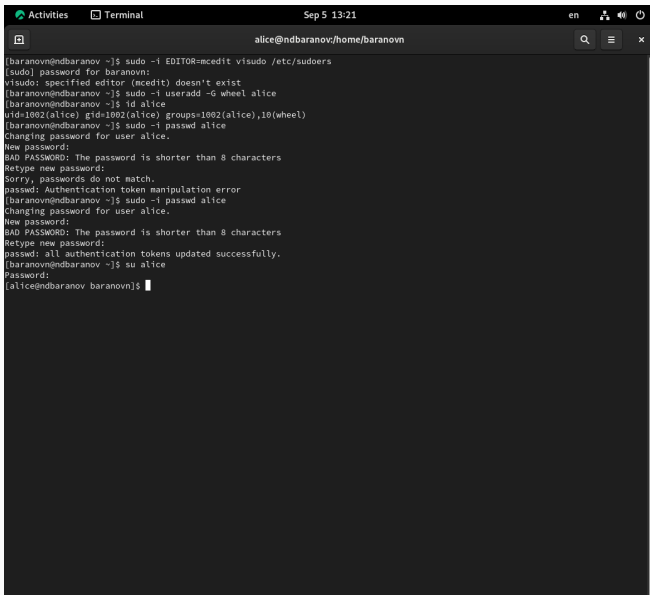
```
baranov@ndbaranov:~$ sudo -i EDITOR=mcedit visudo /etc/sudoers
[sudo] password for baranov:
visudo: specified editor (mcedit) doesn't exist
baranov@ndbaranov ~]$ sudo -i useradd -G wheel alice
baranov@ndbaranov ~]$ id alice
uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel)
baranov@ndbaranov ~]$
```

Пароль для alice

```
Activities Terminal Sep 5 13:21 en [system icons] [power icon]
[search icon] [menu icon] [close icon]
[terminal icon] baranovn@ndbaranov:~

[baranovn@ndbaranov ~]$ sudo -i EDITOR=mcedit visudo /etc/sudoers
[sudo] password for baranovn:
visudo: specified editor (mcedit) doesn't exist
[baranovn@ndbaranov ~]$ sudo -i useradd -G wheel alice
[baranovn@ndbaranov ~]$ id alice
uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel)
[baranovn@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
[baranovn@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[baranovn@ndbaranov ~]$
```


Переключение на alice



```
Activities Terminal Sep 5 13:21 en [search] [menu] [close]
alice@ndbaranov:/home/baranovn

[baranov@ndbaranov ~]$ sudo -i EDITOR=mcedit visudo /etc/sudoers
[sudo] password for baranov:
visudo: specified editor (mcedit) doesn't exist
[baranov@ndbaranov ~]$ sudo -i useradd -G wheel alice
[baranov@ndbaranov ~]$ id alice
uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel)
[baranov@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
[baranov@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[baranov@ndbaranov ~]$ su alice
Password:
[alice@ndbaranov baranovn]$
```

Создание пользователя bob

```
Activities Terminal Sep 5 13:22
alice@ndbaranov:/home/baranovn

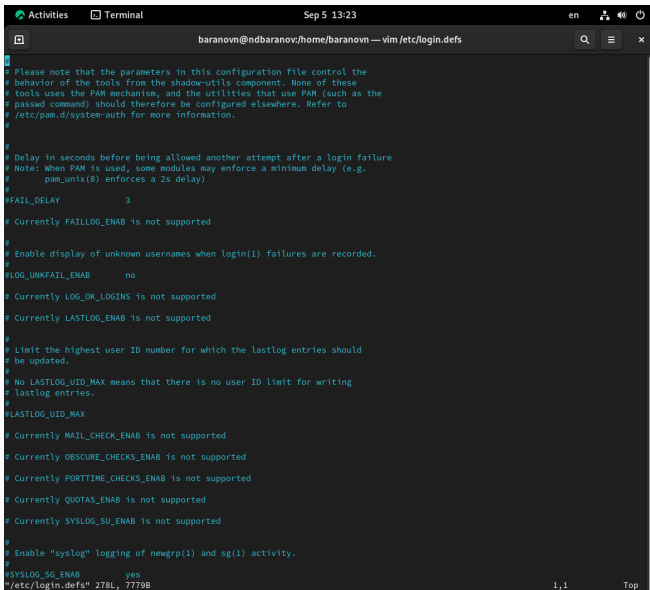
[baranov@ndbaranov ~]$ sudo -i EDITOR=mcedit visudo /etc/sudoers
[sudo] password for baranov:
visudo: specified editor (mcedit) doesn't exist
[baranov@ndbaranov ~]$ sudo -i useradd -G wheel alice
[baranov@ndbaranov ~]$ id alice
uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel)
[baranov@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
[baranov@ndbaranov ~]$ sudo -i passwd alice
Changing password for user alice.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[baranov@ndbaranov ~]$ su alice
Password:
[alice@ndbaranov baranov]$ sudo useradd bob

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

[sudo] password for alice:
[alice@ndbaranov baranov]$ id bob
uid=1003(bob) gid=1003(bob) groups=1003(bob)
[alice@ndbaranov baranov]$
```

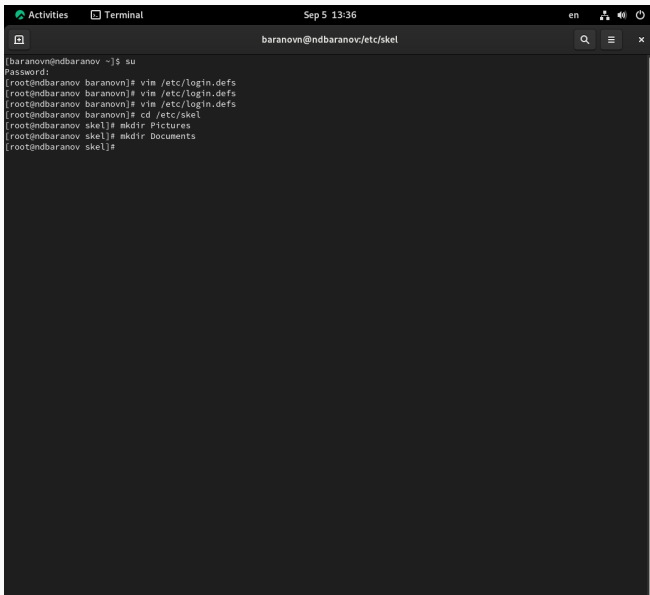
Редактирование login.defs



The screenshot shows a terminal window with the title bar "Activities Terminal" and the date "Sep 5 13:23". The terminal content shows the vim editor editing the file "/etc/login.defs". The file content includes comments about PAM configuration, login failure delays, and various system settings. The current line being edited is "#SYSLOG_SG_ENAB yes".

```
baranovn@ndbaranov:/home/baranovn — vim /etc/login.defs
#
# Please note that the parameters in this configuration file control the
# behavior of the tools from the shadow-utils component. None of these
# tools uses the PAM mechanism, and the utilities that use PAM (such as the
# passwd command) should therefore be configured elsewhere. Refer to
# /etc/pam.d/system-auth for more information.
#
#
# Delay in seconds before being allowed another attempt after a login failure
# Note: When PAM is used, some modules may enforce a minimum delay (e.g.
#       pam_unix(8) enforces a 2s delay)
#
#FAIL_DELAY                3
#
# Currently FAILLOG_ENAB is not supported
#
# Enable display of unknown usernames when login(1) failures are recorded.
#
#LOG_UNKFAIL_ENAB          no
#
# Currently LOG_OK_LOGINS is not supported
#
# Currently LASTLOG_ENAB is not supported
#
#
# Limit the highest user ID number for which the lastlog entries should
# be updated.
#
# No LASTLOG_UID_MAX means that there is no user ID limit for writing
# lastlog entries.
#
#LASTLOG_UID_MAX
#
# Currently MAIL_CHECK_ENAB is not supported
#
# Currently OBSCURE_CHECKS_ENAB is not supported
#
# Currently PORTTIME_CHECKS_ENAB is not supported
#
# Currently QUOTAS_ENAB is not supported
#
# Currently SYSLOG_SU_ENAB is not supported
#
#
# Enable "syslog" logging of newgrp(1) and sg(1) activity.
#
#SYSLOG_SG_ENAB            yes
/etc/login.defs" 278L, 7779B
```

Создание каталогов



A terminal window titled 'Terminal' with a timestamp of 'Sep 5 13:36'. The window shows a user named 'baranov' at a machine named 'ndbaranov'. The user has switched to the root user using 'su'. The root user has edited the file '/etc/login.defs' three times using 'vim'. Then, the root user has changed the directory to '/etc/skel' using 'cd /etc/skel'. Finally, the root user has created two directories, 'Pictures' and 'Documents', using 'mkdir'.

```
[baranov@ndbaranov ~]$ su
Password:
[root@ndbaranov baranov]# vim /etc/login.defs
[root@ndbaranov baranov]# vim /etc/login.defs
[root@ndbaranov baranov]# vim /etc/login.defs
[root@ndbaranov baranov]# cd /etc/skel
[root@ndbaranov skel]# mkdir Pictures
[root@ndbaranov skel]# mkdir Documents
[root@ndbaranov skel]#
```

Редактирование bashrc

```
GNU nano 5.6.1 .bashrc
# .bashrc

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

# User specific environment
if ! [[ "$PATH" =~ "$HOME/.local/bin:$HOME/bin:" ]]
then
    PATH="$HOME/.local/bin:$HOME/bin:$PATH"
fi
export PATH

# Uncomment the following line if you don't like systemctl's auto-paging feature:
# export SYSTEMD_PAGER=

# User specific aliases and functions
if [ -d ~/.bashrc.d ]; then
    for rc in ~/.bashrc.d/*; do
        if [ -f "$rc" ]; then
            . "$rc"
        fi
    done
fi

export EDITOR=/usr/bin/vim

unset rc
```

Wrote 29 lines

Ctrl+G Help Ctrl+W Write Out Ctrl+R Where Is Ctrl+X Cut Ctrl+Y Execute Ctrl+L Location Ctrl+U Undo Ctrl+M Set Mark
Ctrl+O Exit Ctrl+S Read File Ctrl+A Replace Ctrl+V Paste Ctrl+J Justify Ctrl+G Go To Line Ctrl+E Redo Ctrl+C Copy

Создание пользователя carol

```
Activities Terminal Sep 5 13:44 en [Icons] [Power]
alice@ndbaranov:/etc/skel

bindresvport.blacklist fprintd.conf libuser.conf pnm2ppa.conf sudoers.d
binfmt.d fstab locale.conf polkit-1 sudo-ldap.conf
bluetooth fuse.conf localtime ponit.d sysconf
brlapi.key fwupd login.defs printcap sysctl.conf
brltty gcrypt logrotate.conf profile sysctl.d
brltty.conf gdbinit logrotate.d profile.d systemd
chromium gdbinit.lsm lsm protocols system-release
chrony.conf gdm lvm pulse system-release-cpe
chrony.keys geoclue machine-id qemu-ga terminfo
cifs-utils glvnd magic ras texlive
cockpit gnupg mailcap rc.d tapfiles.d
containers GREP_COLORS makedumpfile.conf.sample rc.local tpm2-tss
cron.d groff man_db.conf redhat-release trusted-key.key
cron.daily group mcelog request-key.conf tuned
cron.deny group- microcode_ctl request-key.d udev
cron.hourly grub2.cfg mime.types resolv.conf udisks2
cron.monthly grub.d mke2fs.conf rocky-release updatedb.conf
crontab gshadow modprobe.d rocky-release-upstream UFW
cron.weekly gshadow- modules-load.d rpm
crypto-policies g++ motd rsyncd.conf rsyslog.conf
crypttab host.conf motd.d rsyslog.d vmware-tools
csh.cshrc hostname mtab rsyslog.d vmtoolsd
csh.login hosts my.cnf samba wgetrc
cups inittab my.cnf.d same.d wireplumber
cupshelpers initramfs inputrc nanorc netconfig wpa_supplicant
dbus-1 issai NetworkManager selinux xattr.conf
dbusconf issue networks sestatus.conf xdg
debconf issue.d nftables sestatus.conf xdg
default issue.net nsswitch.conf.x86_64 xdg
depmod.d java nsswitch.conf.bak xdg
dhcpcd jvm nsswitch.conf.bak xdg
DIR_COLORS jwm nsswitch.conf.bak xdg
DIR_COLORS.lightbgcolor jwm nsswitch.conf.bak xdg
dnf jwm nsswitch.conf.bak xdg
dnsmasq.conf kdump openldap shadow
[alice@ndbaranov etc]$ vim /etc/skel
[alice@ndbaranov etc]$ vim /etc/skel
[alice@ndbaranov etc]$ cd /etc/skel
[alice@ndbaranov skel]$ nano .bashrc
[alice@ndbaranov skel]$ nano .bashrc
[alice@ndbaranov skel]$ su alice
[alice@ndbaranov skel]$ sudo -i useradd carol
[alice@ndbaranov skel]$ sudo passwd carol
[alice@ndbaranov skel]$ sudo passwd carol
Changing password for user carol.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[alice@ndbaranov skel]$
```

Проверка каталогов carol

```
Activities Terminal Sep 5 13:45 en [system icons] [power icon]
carol@ndbaranov:~
cron.daily group mcelog request-key.conf tuned
cron.deny group- microcode_ctl request-key.d udev
cron.hourly grub2.cfg mime.types resolv.conf udisks2
cron.monthly grub.d mke2fs.conf rocky-release updatedb.conf
crontab gshadow modprobe.d rocky-release-upstream UPower
cron.weekly gshadow- modules-load.d rpc usb_modeswitch.conf
crypto-policies gss motd rpm vconsole.conf
crypttab host.conf motd.d rsyncd.conf vimrc
csh.cshrc hostname mtab rsyslog.conf virc
csh.login hosts multipath rsyslog.d vmware-tools
 cups hp my.cnf retab.d vulkan
cupshelpers inittab nanorc samba wgetrc
dbus-1 inputrc netconfig sane.d wireplumber
iconf iscsi NetworkManager sasl2 wpa_supplicant
lebuginfod issue networks selinux x11
default issue.d nftables services xattr.conf
leptmod.d java nsswitch.conf sestatus.conf xdg
lftp jvm nsswitch.conf.bak setroubleshoot xml
DIR_COLORS jvm-common nvme sgml yum
DIR_COLORS.lightbgcolor kdump openldap yum.conf
inf kdumf opt shadow- yum.repos.d
dnsmasq.conf kdumf.conf opt shadow-

[root@ndbaranov etc]# vim /bashrc
[root@ndbaranov etc]# vim bashrc
[root@ndbaranov etc]# cd /etc/skel
[root@ndbaranov skel]# nano .bashrc
[root@ndbaranov skel]# nano .bashrc
[root@ndbaranov skel]# su alice
[alice@ndbaranov skel]$ sudo -i useradd carol
[sudo] password for alice:
[alice@ndbaranov skel]$ sudo passwd carol
Changing password for user carol.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[alice@ndbaranov skel]$ su carol
Password:
[carol@ndbaranov skel]$ id
uid=1004(carol) gid=100(users) groups=100(users) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[carol@ndbaranov skel]$ cd
[carol@ndbaranov ~]$ ls -Al
total 12
-rw-r--r-- 1 carol users 18 Apr 30 2024 .bash_logout
-rw-r--r-- 1 carol users 141 Apr 30 2024 .bash_profile
-rw-r--r-- 1 carol users 520 Sep 5 13:43 .bashrc
drwxr-xr-x 2 carol users 6 Sep 5 13:36 Documents
drwxr-xr-x 4 carol users 39 Sep 2 20:33 .mozilla
drwxr-xr-x 2 carol users 6 Sep 5 13:36 Pictures
[carol@ndbaranov ~]$
```

Пароль carol

```
Activities Terminal Sep 5 13:46 en [Icons] [Power]
alice@ndbaranov:/home/carol

csh.cshrc      hostname      mtab          rsyslog.conf  virc
csh.login      hosts        multipath     rsyslog.d     vmware-tools
cups           hp           my.cnf        rttab.d       vulkan
cupsshelpers  inittab      my.cnf.d      samba         wgetrc
dbus-1         inputrc     nanorc        sane.d        wireplumber
iconf          issue       NetworkManager  sasl2        wpa_supplicant
debuginfod    issue.d     networks     security      x11
default        lepton.d    nftables     selinux      xattr.conf
lepton.d       java        nsswitch.conf services      xdg
lftp           jvm         nsswitch.conf.bak  setstatus.conf  xml
DIR_COLORS    jvm-common  nvme          setroubleshoot  yum
DIR_COLORS,lightbgcolor  kdump       openldap      sgml          yum.conf
inf           kdump.conf  opt           shadow        yum.repos.d
dnsmasq.conf

[alice@ndbaranov ~]$ vim /etc/passwd
[alice@ndbaranov ~]$ vim /etc/passwd
[alice@ndbaranov ~]$ cd /etc/skel
[alice@ndbaranov skel]$ nano .bashrc
[alice@ndbaranov skel]$ nano .bashrc
[alice@ndbaranov skel]$ su alice
[alice@ndbaranov skel]$ sudo -i useradd carol
[sudo] password for alice:
[alice@ndbaranov skel]$ sudo passwd carol
passwd: all authentication tokens updated successfully.
[alice@ndbaranov skel]$ su carol
Password:
[carol@ndbaranov skel]$ id
uid=1004(carol) gid=100(users) groups=100(users) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[carol@ndbaranov skel]$ cd
[carol@ndbaranov ~]$ ls -Al
total 12
-rw-r--r-- 1 carol users 18 Apr 30 2024 .bash_logout
-rw-r--r-- 1 carol users 141 Apr 30 2024 .bash_profile
-rw-r--r-- 1 carol users 520 Sep 5 13:43 .bashrc
drwxr-xr-x 2 carol users 6 Sep 5 13:36 Documents
drwxr-xr-x 4 carol users 39 Sep 2 20:33 .mozilla
drwxr-xr-x 2 carol users 6 Sep 5 13:36 Pictures
[carol@ndbaranov ~]$ su alice
Password:
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol
carol:$$rounds=100000$pkindaq3t6DgEBMe$P2CYoUHEEJfPkWqMeh5Zup3cPPcHwg03V9kFndU3qhBDC2mHqVJ7NEkvuTuckLSx8.8MiTQLGyRyp525mF3.:
20236:0:99999:7:::
[alice@ndbaranov carol]$ sudo passwd -n 30 -w 3 -x 90 carol
Adjusting aging data for user carol.
passwd: Success
[alice@ndbaranov carol]$
```


Изменения в пароле carol

```
Activities Terminal Sep 5 13:48 en [Icons] [Volume] [Power]
alice@ndbaranov:/home/carol

[root@ndbaranov etc]# vim bashrc
[root@ndbaranov etc]# cd /etc/skel
[root@ndbaranov skel]# nano .bashrc
[root@ndbaranov skel]# nano .bashrc
[root@ndbaranov skel]# su alice
[alice@ndbaranov skel]$ sudo -i useradd carol
[sudo] password for alice:
[alice@ndbaranov skel]$ sudo passwd carol
Changing password for user carol.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[alice@ndbaranov skel]$ su carol
Password:
[carol@ndbaranov skel]$ id
uid=1004(carol) gid=100(users) groups=100(users) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[carol@ndbaranov skel]$ cd
[carol@ndbaranov ~]$ ls -Al
total 12
-rw-r--r--. 1 carol users 18 Apr 30 2024 .bash_logout
-rw-r--r--. 1 carol users 141 Apr 30 2024 .bash_profile
-rw-r--r--. 1 carol users 520 Sep 5 13:43 .bashrc
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 Documents
drwxr-xr-x. 4 carol users 39 Sep 2 20:33 .mozilla
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 Pictures
[carol@ndbaranov ~]$ su alice
Password:
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol
carol:$6$rounds=100000$pkIndAqJtBDgEBMe$P2CYoUHeE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:
20336:30:90999:7:::
[alice@ndbaranov carol]$ sudo passwd -n 30 -w 3 -x 90 carol
Adjusting aging data for user carol.
passwd: Success
[alice@ndbaranov carol]$ ~sudo cat /etc/shadow | grep carol
bash: ~sudo: command not found...
Similar command is: 'sudo'
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol
carol:$6$rounds=100000$pkIndAqJtBDgEBMe$P2CYoUHeE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:
20336:30:9013:::
[alice@ndbaranov carol]$ grep alice /etc/passwd /etc/shadow /etc/group
/etc/passwd:alice:x:1002:1002::/home/alice:/bin/bash
grep: /etc/shadow: Permission denied
/etc/group:wheel:x:10:ndbaranov,alice
/etc/group:alice:x:1002:
[alice@ndbaranov carol]$ sudo grep carol /etc/passwd /etc/shadow /etc/group
/etc/passwd:carol:x:1004:100::/home/carol:/bin/bash
/etc/shadow:carol:$6$rounds=100000$pkIndAqJtBDgEBMe$P2CYoUHeE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:20336:30:90:3:::
[alice@ndbaranov carol]$
```

Создание групп main и third

```
Activities Terminal Sep 5 13:49 en Alice@ndbaranov:~  
[sudo] password for alice:  
[alice@ndbaranov skel]$ sudo passwd carol  
Changing password for user carol.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[alice@ndbaranov skel]$ su carol  
Password:  
[carol@ndbaranov skel]$ id  
uid=1004(carol) gid=100(users) groups=100(users) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023  
[carol@ndbaranov skel]$ cd  
[carol@ndbaranov ~]$ ls -Al  
total 12  
-rw-r--r--. 1 carol users 18 Apr 30 2024 .bash_logout  
-rw-r--r--. 1 carol users 141 Apr 30 2024 .bash_profile  
-rw-r--r--. 1 carol users 520 Sep 5 13:43 .bashrc  
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 Documents  
drwxr-xr-x. 4 carol users 39 Sep 2 20:33 .mozilla  
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 Pictures  
[carol@ndbaranov ~]$ su alice  
Password:  
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol  
carol:$6$rounds=100000$pkIndAqJt8DgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBdC12mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:  
20336:0:99999:7:::  
[alice@ndbaranov carol]$ sudo passwd -n 30 -w 3 -x 90 carol  
Adjusting aging data for user carol.  
passwd: Success  
[alice@ndbaranov carol]$ ~sudo cat /etc/shadow | grep carol  
bash: ~sudo: command not found...  
Similar command is: 'sudo'  
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol  
carol:$6$rounds=100000$pkIndAqJt8DgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBdC12mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:  
20336:30:90:3:::  
[alice@ndbaranov carol]$ grep alice /etc/passwd /etc/shadow /etc/group  
/etc/passwd:alice:x:1002:1002::/home/alice:/bin/bash  
grep: /etc/shadow: Permission denied  
/etc/group:wheel:x:10:baranov,ndbaranov,alice  
/etc/group:alice:x:1002:  
[alice@ndbaranov carol]$ sudo grep carol /etc/passwd /etc/shadow /etc/group  
/etc/passwd:carol:x:1004:100::/home/carol:/bin/bash  
/etc/shadow:carol:$6$rounds=100000$pkIndAqJt8DgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBdC12mHqY37NEkvuTuckLSx8.8MiTQLgYRyp525mF3.:20336:30:90:3:::  
[alice@ndbaranov carol]$ cd  
[alice@ndbaranov ~]$ sudo groupadd main  
[alice@ndbaranov ~]$ sudo groupadd third  
[alice@ndbaranov ~]$ sudo usermod -aG main alice  
[alice@ndbaranov ~]$ sudo usermod -aG main bob  
[alice@ndbaranov ~]$ sudo usermod -aG third carol  
[alice@ndbaranov ~]$
```

Проверка добавления пользователей в группы

```
Activities Terminal Sep 5 13:52 en Alice@ndbaranov:~  
passwd: all authentication tokens updated successfully.  
[alice@ndbaranov skel]$ su carol  
Password:  
[carol@ndbaranov skel]$ id  
uid=1004(carol) gid=100(users) groups=100(users) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023  
[carol@ndbaranov skel]$ cd  
[carol@ndbaranov ~]$ ls -Al  
total 12  
-rw-r--r--. 1 carol users 18 Apr 30 2024 .bash_logout  
-rw-r--r--. 1 carol users 141 Apr 30 2024 .bash_profile  
-rw-r--r--. 1 carol users 520 Sep 5 13:43 .bashrc  
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 .documents  
drwxr-xr-x. 4 carol users 39 Sep 2 20:33 .mozilla  
drwxr-xr-x. 2 carol users 6 Sep 5 13:36 .Pictures  
[carol@ndbaranov ~]$ su alice  
Password:  
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol  
carol:$6$rounds=100000$PkindAq3tBDgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckL5x8.8MiTQLgYRyp525mF3.:  
20336:0:99999:7:::  
[alice@ndbaranov carol]$ sudo passwd -n 30 -w 3 -x 90 carol  
Adjusting aging data for user carol.  
passwd: Success  
[alice@ndbaranov carol]$ ~sudo cat /etc/shadow | grep carol  
bash: ~sudo: command not found...  
Similar command is: 'sudo'  
[alice@ndbaranov carol]$ sudo cat /etc/shadow | grep carol  
carol:$6$rounds=100000$PkindAq3tBDgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckL5x8.8MiTQLgYRyp525mF3.:  
20336:30:90:3:::  
[alice@ndbaranov carol]$ grep alice /etc/passwd /etc/shadow /etc/group  
/etc/passwd:alice:x:1002:1002::/home/alice:/bin/bash  
grep: /etc/shadow: Permission denied  
/etc/group:wheel:x:10:baranov,ndbaranov,alice  
/etc/group:alice:x:1002:  
[alice@ndbaranov carol]$ sudo grep carol /etc/passwd /etc/shadow /etc/group  
/etc/passwd:carol:x:1004:100::/home/carol:/bin/bash  
/etc/shadow:carol:$6$rounds=100000$PkindAq3tBDgEBMe$P2CYoUHEE3PpKwqWMeH5ZUp3cPPcHWg03V9kFndU3qhBDcL2mHqY37NEkvuTuckL5x8.8MiTQLgYRyp525mF3.:20336:30:90:3:::  
[alice@ndbaranov carol]$ cd  
[alice@ndbaranov ~]$ sudo groupadd main  
[alice@ndbaranov ~]$ sudo groupadd third  
[alice@ndbaranov ~]$ sudo usermod -aG main alice  
[alice@ndbaranov ~]$ sudo usermod -aG main bob  
[alice@ndbaranov ~]$ sudo usermod -aG third carol  
[alice@ndbaranov ~]$ id carol  
uid=1004(carol) gid=100(users) groups=100(users),1005(third)  
[alice@ndbaranov ~]$ id bob  
uid=1003(bob) gid=1003(bob) groups=1003(bob),1004(main)  
[alice@ndbaranov ~]$ id alice  
uid=1002(alice) gid=1002(alice) groups=1002(alice),10(wheel),1004(main)  
[alice@ndbaranov ~]$
```

Мы получили представление о работе с учётными записями пользователей и группами пользователей в Linux.