Linux administration

PART 1

```
oot@host1:/etc# file /etc/passwd
 etc/passwd: ASCII text
 root@host1:/etc# cat /etc/passwd
 oot:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www–data:x:33:33:www–data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug—Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106::/nonexistent:/usr/sbin/nologin
syslog:x:104:110::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:112::/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113::/nonexistent:/usr/sbin/nologin
landscape:x:109:115::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:110:1::/var/cache/pollinate:/bin/false
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
systemd–coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
user1:x:1000:1000:Dmitry:/home/user1:/bin/bash
lxd:x:998:100::/var/snap/lxd/common/lxd:/bin/false
 oot@host1:/etc# _
```

Screenshot 1 – etc/password file

```
dip:x:30:user1
www–data:x:33:
 oackup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
 src:x:40:
gnats:x:41:
 hadow:x:42:
 utmp:x:43:
video:x:44:
  asl:x:45:
plugdev:x:46:user1
staff:x:50:
games:x:60:
 users:x:100:
nogroup:x:65534:
 systemd-journal:x:101:
 systemd–network:x:102:
systemd–resolve:x:103:
 systemd-timesync:x:104:
 crontab:x:105:
messagebus:x:106:
messagebus:x:106
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
uuidd:x:112:
tcpdump:x:113:
ssh:x:114:
landscape:x:115:
 lxd:x:116:user1
 systemd–coredump:x:999:
user1:x:1000:
mlocate:x:117:
root@host1:/etc#
```

```
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:user1
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd–journal:x:101:
systemd–network:x:102:
systemd–resolve:x:103:
systemd–timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
 ender:x:109:
syslog:x:110:
tss:x:111:
uuidd:x:112:
tcpdump:x:113:
ssh:x:114:
landscape:x:115:
lxd:x:116:user1
systemd-coredump:x:999:
user1:x:1000:
mlocate:x:117:
[2]+ Stopped
                                            less group
root@host1:/etc#
root@host1:/etc#
root@host1:/etc# useradd -r -u 1001 -g 1001 -s /usr/bin/nologin User2
useradd: group '1001' does not exist
root@host1:/etc# useradd -r -u 1001 -g 1000 -s /usr/bin/nologin User2
useradd: Warning: missing or non-executable shell '/usr/bin/nologin'
 root@host1:/etc# useradd –m user2
 root@host1:/etc#
```

Screenshot 3 – useradd/adduser добавление пользователей в систему

```
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:user1
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd–resolve:x:103:
systemd–timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
uuidd:x:112:
topdump:x:113:
ssh:x:114:
landscape:x:115:
lxd:x:116:user1
systemd-coredump:x:999:
user1:x:1000:
mlocate:x:117:
[2] +
        Stopped
                                             less group
root@host1:/etc#
root@host1:/etc# useradd –r –u 1001 –g 1001 –s /usr/bin/nologin User2
useradd: group '1001' does not exist
useradd: group 1001 does not exist
root@host1:/etc# useradd –r –u 1001 –g 1000 –s /usr/bin/nologin User2
useradd: Warning: missing or non–executable shell '/usr/bin/nologin'
root@host1:/etc# useradd –m user2
root@host1:/etc# usermod –l unroot user2
root@host1:/etc# _
```

Screenshot 4 – usermod -l смена имени пользователя

```
The default group for users
  100=users on Debian systems
Same as USERS_GID in adduser
This argument is used when the –n flag is specified.
The default behavior (when –n and –g are not specified) is to create a primary user group with the same name as the user being added to the
  GROUP=100
  The default home directory. Same as DHOME for adduser
  HOME=/home
  The number of days after a password expires until the account
  is permanently disabled
  INACTIVE=-1
  The default expire date
  EXPIRE=
  The SKEL variable specifies the directory containing "skeletal" user files; in other words, files such as a sample .profile that will be copied to the new user's home directory when it is created.
  SKEL=/etc/skel
  Defines whether the mail spool should be created while
  creating the account CREATE_MAIL_SPOOL=yes
root@host1:/etc# ls –lar /etc/skel
total 20
                 1 root root
                                    807 Feb 25
                                                      2020 .profile
-rw-r--r--
                 1 root root 3771 Feb 25
                                                      2020 .bashrc
                                    220 Feb 25
                                                      2020 .bash_logout
-rw-r--r--
                 1 root root
drwxr–xr–x 96 root root 4096 Jul 28 07:13
drwxr−xr−x 2 root
                           root 4096 Feb
root@host1:/etc#
```

Screenshot 5 – skel dir(skeleton) директория

```
primary user group with the same name as the user being added to the
  system.
  GROUP=100
  The default home directory. Same as DHOME for adduser
  HOME=/home
  The number of days after a password expires until the account
  is permanently disabled
  INACTIVE=-1
  The default expire date
  EXPIRE=
  The SKEL variable specifies the directory containing "skeletal" user
  files; in other words, files such as a sample .profile that will be copied to the new user's home directory when it is created.
  SKEL=/etc/skel
  Defines whether the mail spool should be created while
  creating the account
  CREATE_MAIL_SPOOL=yes
root@host1:/etc# ls –lar /etc/skel
total 20
                            807 Feb 25
                                          2020 .profile
             1 root root
-rw-r--r--
rw-r--r-- 1 root root 3771 Feb 25
                                          2020 .bashrc
-rw-r--r-- 1 root root 220 Feb 25 2020
drwxr-xr-x 96 root root 4096 Jul 28 07:13
                                          2020 .bash_logout
drwxr–xr–x  2 root root 4096 Feb  1 17:23
root@host1:/etc# deluser ——remove—home unroot
ooking for files to backup/remove ...
Removing files ...
Removing user `unroot'
Warning: group `user2' has no more members.
Done.
root@host1:/etc# _
```

```
-rw-r--- 1 root root 3771 Feb 25 2020 .bashrc
-rw-r--- 1 root root 220 Feb 25 2020 .bash_logout
drwxr-xx 96 root root 4096 Jul 28 07:13 ...
drwxr-xx 2 root root 4096 Feb 1 17:23 .
root@host1:/etc# deluser --remove-home unroot
Looking for files to backup/remove ...
Removing files ...
Removing user `unroot' ...
Warning: group `user2' has no more members.
Done.
root@host1:/etc# adduser kto
Adding new group `kto' (1001) ...
Adding new group `kto' (1002) with group `kto' ...
Creating home directory `/home/kto' ...
Creating home directory `/home/kto' ...
Copying files from `/etc/skel' ...
New password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
New password:
Retype new passw
```

Screenshot 7- passwd lock блокировка пароля пользователя

```
1 root
                                shadow
                                                   1175 Jul 28 07:30 shadow
                    1 root
 rii-r----
                    1 root
                               shadow
                                                    1179 Jul 28 07:26 shadow-
                                                    146 Jul
                                                                    5 07:54 shells
                    1 root
                               root
                                                   4096 Feb
4096 Feb
                                                                    1 17:23
1 17:27
drwxr-xr-x
                    2 root root
                    6 root root
drwxr-xr-x
                                                                    5 08:01
                                                   4096 Jul
driixr-xr-x
                    3 root root
                                                   4096 Jul 5 08:01 ssh/

4096 Jul 5 07:56 ssl/

55 Jul 28 07:23 subgid

38 Jul 28 07:23 subuid

38 Jul 28 07:08 subgid-

55 Jul 28 07:08 subuid-

755 Feb 3 2020 sudoers

4096 Feb 1 17:24 sudoers.d/

2351 Feb 13 2020 sysctl.conf
drwxr−xr−x
                    4 root
                               root
 riii-r--r--
                    1 root
                               root
 -rw-r--r--
                    1 root
                                root
                    1 root
                                root
                    1 root
                    1 root root
                    2 root
drwxr-xr-x
                               root
                                                  4096 Feb 1 17:23 sysctl.conf

4096 Feb 1 17:23 sysctl.d/

4096 Feb 1 17:18 systemd/

4096 Feb 1 17:21 terminfo/

4096 Jul 5 07:50 thermald/

8 Feb 1 17:24 timezone

4096 Feb 1 17:27 tmpfiles.d/

4096 Feb 1 17:23 ubuntu-advantage/

1260 Dec 14 2018 ucf.conf
                    1 root
                               root
drwxr-xr-x
                    2 root root
                    5 root root
drwxr-xr-x
drwxr-xr-x
                    2 root root
drwxr−xr−x
                    2 root root
-rw-r--r--
                    1 root root
                   2 root
driixr-xr-x
                               root
drwxr-xr-x
                                                  1260 Dec 14 2018 ucf.conf

1260 Dec 14 2018 ucf.conf

14096 Feb 1 17:24 udev/

14096 Feb 1 17:27 ufw/

14096 Feb 1 17:28 update-manager/

14096 Feb 1 17:28 update-motd.d/

14096 Jan 20 2021 update-notifier
-riii-r--r--
                               root
drwxr-xr-x
                    4 root
                               root
drwxr-xr-x
                                root
drwxr-xr-x
                    3 root root
                   2 root
2 root
drwxr-xr-x
                                root
drwxr-xr-x
                                root
-rw-r--r--
                    1 root
                                                                         2019 updatedb.conf
                               root
                                                   4096 Feb
                                                                        17:22
drwxr-xr-x
                       root root
                                                                        17:27 vmware-tools/
17:23 vtrgb -> /etc/alternatives/vtrgb
                                                   4096 Feb
23 Feb
drwxr-xr-x
                    4 root
                               root
lrwxrwxrwx
                    1 root
                               root
                                                   4942 Jul 24
642 Sep 24
                                                                         2019 wgetrc
2019 xattr.conf
 -rw-r--r--
                    1 root root
 -rw-r--r--
                    1 root root
                                                                    1 17:22
7 2019
                                                   4096 Feb
drwxr-xr-x
                    4 root root
                                                                         2019 zsh_command_not_found
 -riii-r--r--
                    1 root
                               root
                                                     477 Oct
 root@host1:/etc#
```

Screenshot 8 – ls alF подробная информация о директории

```
Swap usage:
 * Super-optimized for small spaces – read how we shrank the memory
   footprint of MicroK8s to make it the smallest full K8s around.
   https://ubuntu.com/blog/microk8s-memory-optimisation
68 updates can be installed immediately.
O of these updates are security updates.
To see these additional updates run: apt list ——upgradable
ast login: Wed Jul 28 06:41:11 UTC 2021 on tty1.
root@host1:~# passwd ––help
Usage: passwd [options] [LOGIN]
Options:
 -a, --all
-d, --delete
-e, --expire
-h, --help
-k, --keep-tokens
                                    report password status on all accounts
                                    delete the password for the named account
                                     force expire the password for the named account
                                    display this help message and exit
                                    change password only if expired
                                    set password inactive after expiration to INACTIVE
  -i, --inactive INACTIVE
  -1, --lock
                                    lock the password of the named account
  -n, --mindays MIN_DAYS
                                    set minimum number of days before password
                                    change to MIN_DAYS
  −q, −−quiet
                                    quiet mode
  -r, --repository REPOSITORY
-R, --root CHROOT_DIR
-S, --status
                                    change password in REPOSITORY repository
                                    directory to chroot into report password status on the named account
                                    unlock the password of the named account
  −w, −−warndays WARN_DAYS
                                    set expiration warning days to WARN_DAYS
  -x, --maxdays MAX_DAYS
                                     set maximum number of days before password
                                    change to MAX_DAYS
 oot@host1:~#
```

Screenshot 9 – passwd -e делает пароль устаревшим

```
Creating home directory `/home;
Copying files from `/etc/skel'
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
New password:
Retype new password:
passwd: password updated successfully
 Changing the user information for kto
Changing the user information for kto
Enter the new value, or press ENTER for the default
Full Name []: Vasyl
Room Number []: 1
Work Phone []: 123
Home Phone []: 123
Other []: 0
Is the information correct? [Y/n] y
root@host1:/etc# passwd ——lock kto
passwd: password expiry information changed.
root@host1:/etc# usermod —U kto
  root@host1:/etc# usermod –U kto
 root@host1:/etc# dashmod -8 kto
root@host1:/etc# passwd -8 kto
kto P 07/28/2021 0 99999 7 -1
root@host1:/etc# -chage -d 0 kto
Command '–chage' not found, did you mean:
    command 'chage' from deb passwd (1:4.8.1–1ubuntu5.20.04) command 'lchage' from deb libuser (1:0.62~dfsg–0.3)
 Try: apt install <deb name>
  root@host1:/etc# chage –d O kto
root@host1:/etc# passwd –S kto
  to P 01/01/1970 0 99999 7 -1
  oot@host1:/etc#
```

```
root@host1:/home/kto# chmod who=ugo file.txt
chmod: invalid mode: 'who=ugo'
Try 'chmod ––help' for more information.
root@host1:/home/kto# chmod who=a file.txt
chmod: invalid mode: 'who=a'
Try 'chmod ——help' for more information.
root@host1:/home/kto# chmod a=permission file.txt
chmod: invalid mode: 'a=permission'
Try 'chmod ––help' for more information.
root@host1:/home/kto# chmod ugo= file.txt
  oot@host1:/home/kto# ls –al
 total 20
drwxr–xr–x 2 kto kto 4096 Jul 28 07:59
drwxr-xr-x 2 kto kto 4096 Jul 28 07:23 ..
drwxr-xr-x 5 root root 4096 Jul 28 07:23 ..
-rw-r--r- 1 kto kto 220 Jul 28 07:23 .bash_10
-rw-r--r- 1 kto kto 3771 Jul 28 07:23 .bashrc
-rw-r--r- 1 kto kto 807 Jul 28 07:23 .profile
------ 1 root root 0 Jul 28 07:25 file.tx
                                                                                     .bash_logout
                                                                                    .profile
file.txt
  root@host1:/home/kto# chmod a= file.txt
  oot@host1:/home/kto#
                                             ls -al
 total 20
drwxr-xr-x 2 kto kto 4096 Jul 28 07:59
drwxr-xr-x 5 root root 4096 Jul 28 07:23
 -rw−r−-r−− 1 kto kto
                                                220 Jul 28 07:23 .bash_logout
                                               3771 Jul 28 07:23 .bashro
807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
  -rw-r--r-- 1 kto
  -rw-r--r-- 1 kto
                                    kto
 oot@host1:/home/kto# ls –al
                                              4096 Jul 28 07:59
drwxr–xr–x 2 kto kto
drwxr-xr-x 2 kto kto 4036 Jul 28 07:23 ..
drwxr-xr-x 5 root root 4096 Jul 28 07:23 ..
-rw-r--r- 1 kto kto 220 Jul 28 07:23 .bash_l
-rw-r--r- 1 kto kto 3771 Jul 28 07:23 .bashrc
-rw-r--r- 1 kto kto 807 Jul 28 07:23 .profil
-rwxrwxrwx 1 root root 0 Jul 28 07:59 file.tx
                                                                                     .bash_logout
                                                                                     .profile
  oot@host1:/home/kto#
```

Screenshot 11 – chmod a=rwx выставляет права доступа на файл

```
chmod: invalid mode: 'who=a'
Try 'chmod ––help' for more information.
root@host1:/home/kto# chmod a=permission file.txt
chmod: invalid mode: 'a=permission'
Try 'chmod ––help' for more information.
  root@host1:/home/kto# chmod ugo= file.txt
root@host1:/home/kto# ls –al
 total 20
drwxr-xr-x 2 kto kto 4096 Jul 28 07:59 .
drwxr-xr-x 5 root root 4096 Jul 28 07:23 .
-rw-r--r- 1 kto kto 220 Jul 28 07:23 .bash_l
-rw-r--r- 1 kto kto 3771 Jul 28 07:23 .bashrc
-rw-r--r- 1 kto kto 807 Jul 28 07:23 .profile
                                                                                                                                        .bash_logout
                                                                                                                                      .profile
file.txt
                                                                                0 Jul 28 07:59
          ----- 1 root root
  root@host1:/home/kto# chmod a= file.txt
root@host1:/home/kto# ls –al
 total 20
total 20
drwxr-xr-x 2 kto kto 4096 Jul 28 07:59 .
drwxr-xr-x 5 root root 4096 Jul 28 07:23 .
-rw-r--r- 1 kto kto 220 Jul 28 07:23 .bash_lo;
-rw-r--r- 1 kto kto 3771 Jul 28 07:23 .bashrc
-rw-r--r- 1 kto kto 807 Jul 28 07:23 .profile
------ 1 root root 0 Jul 28 07:59 file.txt
                                                                                                                                        .bash_logout
  root@host1:/home/kto# chmod a=rwx file.txt
root@host1:/home/kto# ls –al
 total 20

      drwxr-xr-x
      2 kto
      kto
      4096 Jul
      28 07:59
      .

      drwxr-xr-x
      5 root
      root
      4096 Jul
      28 07:23
      .

      -rw-r-r--
      1 kto
      kto
      220 Jul
      28 07:23
      .bash_log

      -rw-r--r--
      1 kto
      kto
      3771 Jul
      28 07:23
      .bashrc

      -rw-r--r--
      1 kto
      kto
      807 Jul
      28 07:23
      .profile

      -rwxrwxrwx
      1 root
      root
      0 Jul
      28 07:59
      file.txt

                                                                                                                                        .bash_logout
  oot@host1:/home/kto# umask
 0022
  root@host1:/home/kto# umask –S
 u=rwx,g=rx,o=rx
root@host1:/home/kto#
```

Screenshot 12 - umask (user file creation mode mask)

```
4096 Jul 28 07:23 ...
220 Jul 28 07:23 .bash_logout
3771 Jul 28 07:23 .bashrc
807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
 -rw-r--r-- 1 kto
 -rw-r--r--
                  1 kto
         ---- 1 root root
 oot@host1:/home/kto# chmod a= file.txt
 oot@host1:/home/kto#
                                    ls -al
total 20
drwxr–xr–x 2 kto  kto  4096 Jul 28 07:59
drwxr–xr–x 5 root root 4096 Jul 28 07:23
 -rw-r--r--
                             kto
                                       220 Jul 28 07:23
                                                                    .bash_logout
                                     3771 Jul 28 07:23 .bashrc
807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
 -rw-r--r--
                  1 kto
                             kto
 -rw-r--r--
         ---- 1 root root
 root@host1:/home/kto# chmod a=rwx file.txt
 oot@host1:/home/kto#
                                    ls –al
total 20
total 20
drwxr-xr-x 2 kto kto 4096 Jul 28 07:59 .
drwxr-xr-x 5 root root 4096 Jul 28 07:23 .
-rw-r--r-- 1 kto kto 220 Jul 28 07:23 .bash_logout
-rw-r--r-- 1 kto kto 3771 Jul 28 07:23 .bashrc
                                       807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
 -rw-r--r-- 1 kto
                             kto
 rwxrwxrwx 1 root root 0
root@host1:/home/kto# umask
0022
 oot@host1:/home/kto# umask –S
u=rwx,g=rx,o=rx
root@host1:/home/kto# chmod u+s file.txt
 root@host1:/home/kto# ls –al
total 20
drwxr–xr–x 2 kto  kto  4096 Jul 28 07:59
drwxr–xr–x 5 root root 4096 Jul 28 07:23
                                     220 Jul 28 07:23 .bash_logout
3771 Jul 28 07:23 .bashrc
807 Jul 28 07:23 .profile
 -rw-r--r-- 1 kto kto
 -rw-r--r--
                  1 kto
                             kto
 rw−r−−r−− 1 kto
 rwsrwxrwx 1 root root
root@host1:/home/kto#
                                          0 Jul 28 07:59 📶
```

Screenshot 13 – chmod u+s выдает файлу suid даёт возможность на время выполнения файла непривилегированному пользователю получить права пользователя — владельца файла

```
rw–r––r–– 1 kto kto
                         3771 Jul 28 07:23 .bashrc
                           807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
 rw–r––r–– 1 kto kto
     ----- 1 root root
root@host1:/home/kto# chmod a=rwx file.txt
oot@host1:/home/kto#
                        ls -al
total 20
drwxr-xr-x 2 kto kto
                         4096 Jul 28 07:59
drwxr–xr–x 5 root root 4096 Jul 28 07:23
-rw-r--r-- 1 kto kto
                           220 Jul 28 07:23 .bash_logout
-rw-r--r-- 1 kto
                          3771 Jul 28 07:23 .bashrc
                           807 Jul 28 07:23 .profile
0 Jul 28 07:59 file.txt
-rw-r--r-- 1 kto kto
rwxrwxrwx 1 root root
oot@host1:/home/kto# umask
0022
root@host1:/home/kto# umask –S
u=rwx,g=rx,o=rx
root@host1:/home/kto# chmod u+s file.txt
root@host1:/home/kto# ls –al
total 20
drwxr–xr–x 2 kto  kto  4096 Jul 28 07:59
drwxr–xr–x 5 root root 4096 Jul 28 07:23
-rw−r−−r−− 1 kto
                   kto
                           220 Jul 28 07:23 .bash_logout
-rw-r--r-- 1 kto
                    kto
                          3771 Jul 28 07:23 .bashrc
                           807 Jul 28 07:23 .profile
-rw−r−−r−− 1 kto
                    kto
                             0 Jul 28 07:59 file
-rwsrwxrwx 1 root root
root@host1:/home/kto# chmod 1755 kto
chmod: cannot access 'kto': No such file or directory
oot@host1:/home/kto# chmod 1755 .
root@host1:/home/kto# ls –al
total 20
drwxr–xr–t2 kto kto 4096Jul 28 07:59 🖪
drwxr–xr–x 5 root root 4096 Jul 28 07:23
                           220 Jul 28 07:23 .bash_logout
-rw-r--r-- 1 kto
                   kto
                          3771 Jul 28 07:23 .bashrc
-rw-r--r--
            1 kto
                    kto
                           807 Jul 28 07:23 .profile
-rw-r--r--
              kto
                    kto
                             0 Jul 28 07:59
-rwsrwxrwx 1 root root
root@host1:/home/kto#
```

Screenshot 14 – chmod 1755 выдает файлу sticky bit только владелец (и root) файла может удалить файл в этом каталоге.