

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики

ОТЧЕТ

ПО ЛАБОРАТОРНОЙ РАБОТЕ № 6

disciplina: Операционные системы

Студент группы НПИбд-01-21

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МОСКВА

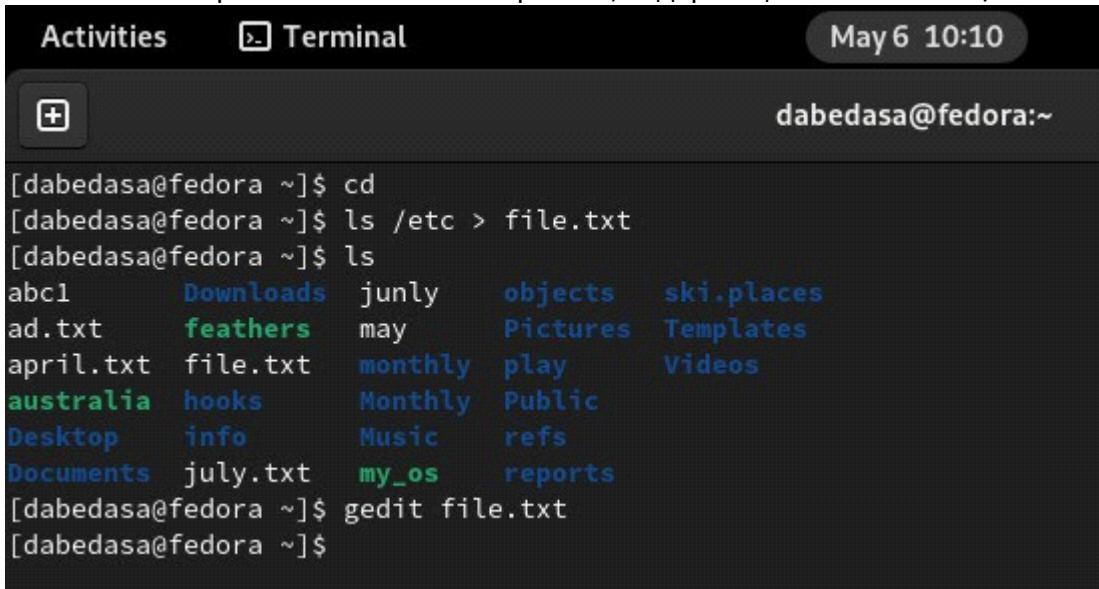
2020 г.

Цель работы:

Ознакомиться с инструментами поиска файлов и фильтрации текстовых данных.
Приобрести практические навыки: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.

Ход работы:

- Осуществили вход в систему под моим именем пользователя.
- Записали в файл file.txt названия файлов, содержащихся в каталоге /etc.



The screenshot shows a terminal window titled 'Terminal' with the date 'May 6 10:10' in the top right corner. The window title bar also includes 'Activities' and a maximize/minimize button. The terminal prompt is 'dabedasa@fedora:~'. The command history is as follows:

```
[dabedasa@fedora ~]$ cd  
[dabedasa@fedora ~]$ ls /etc > file.txt  
[dabedasa@fedora ~]$ ls  
abc1      Downloads  junly    objects   ski.places  
ad.txt    feathers   may     Pictures  Templates  
april.txt  file.txt  monthly  play      Videos  
australia  hooks    Monthly  Public  
Desktop    info      Music    refs  
Documents   july.txt my_os    reports  
[dabedasa@fedora ~]$ gedit file.txt  
[dabedasa@fedora ~]$
```

Activi... Text ... May 6 10:12

Open file.txt ~/ Save

```
1 abrt
2 adjtime
3 aliases
4 alsa
5 alternatives
6 anaconda
7 anthy-unicode.conf
8 appstream.conf
9 alsound.conf
10 audit
11 authselect
12 avahi
13 bash_completion.d
14 bashrc
15 bindresvport.blacklist
16 binfmt.d
17 bluetooth
18 brlapi.key
19 brltty
20 brltty.conf
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open file.txt ~ Save

```
20 brltty.conf
21 ceph
22 chkconfig.d
23 chromium
24 chrony.conf
25 chrony.keys
26 cifs-utils
27 containers
28 crypto-policies
29 crypttab
30 csh.cshrc
31 csh.login
32 cups
33 cupshelpers
34 dbus-1
35 dconf
36 default
37 depmod.d
38 dhcp
39 DIR_COLORS
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open file.txt ~ Save

```
40 DIR_COLORS.lightbgcolor
41 dleyna-renderer-service.conf
42 dleyna-server-service.conf
43 dnf
44 dnsmasq.conf
45 dnsmasq.d
46 dracut.conf
47 dracut.conf.d
48 egl
49 environment
50 ethertypes
51 exports
52 exports.d
53 extlinux.conf
54 favicon.png
55 fedora-release
56 filesystems
57 firefox
58 firewalld
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open + file.txt ~ Save x

```
59 flatpak
60 flexiblasrc
61 flexiblasrc.d
62 fonts
63 fprintd.conf
64 fstab
65 fuse.conf
66 fwupd
67 gcrypt
68 gdbinit
69 gdbinit.d
70 gdm
71 geoclue
72 glvnd
73 gnupg
74 GREP_COLORS
75 groff
76 group
77 group-
78 grub2.0f
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open + file.txt ~ Save x

```
78 grub2.cfg
79 grub2-efi.cfg
80 grub.d
81 gshadow
82 gshadow-
83 gss
84 gssproxy
85 host.conf
86 hostname
87 hosts
88 hp
89 httpd
90 idmapd.conf
91 init.d
92 inittab
93 inputrc
94 iproute2
95 iscsi
96 issue
97 issue.d
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open file.txt ~/ Save

```
98 issue.net
99 java
100 jvm
101 jvm-common
102 jwhois.conf
103 kdump
104 kdump.conf
105 kernel
106 krb5.conf
107 krb5.conf.d
108 ld.so.cache
109 ld.so.conf
110 ld.so.conf.d
111 libaudit.conf
112 libblockdev
113 libibverbs.d
114 libnl
115 libpaper.d
116 libreport
```

Plain Text Tab Width: 8 Ln 235, Col 19 INS

Activi... Text ... May 6 10:13

Open file.txt ~/ Save

```
117 libssh
118 libuser.conf
119 libvirt
120 locale.conf
121 localtime
122 login.defs
123 logrotate.conf
124 logrotate.d
125 lvm
126 machine-id
127 magic
128 mailcap
129 makedumpfile.conf.sample
130 man_db.conf
131 mcelog
132 mdevctl.d
133 mime.types
134 mke2fs.conf
135 modprobe.d
126 modules-loaded
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:13

Open file.txt ~/ Save

```
136 modules-load.u
137 motd
138 motd.d
139 mtab
140 mtools.conf
141 my.cnf
142 my.cnf.d
143 nanorc
144 ndctl
145 netconfig
146 NetworkManager
147 networks
148 nfs.conf
149 nfsmount.conf
150 nftables
151 nsswitch.conf
152 nsswitch.conf.bak
153 openldap
154 opensc.conf
155 opensc-x86_64.conf
```

Plain Text Tab Width: 8 Ln 235, Col 19 INS

Activi... Text ... May 6 10:14

Open file.txt ~/ Save

```
156 openvpn
157 opt
158 os-release
159 ostree
160 PackageKit
161 pam.d
162 papersize
163 passwd
164 passwd-
165 passwdqc.conf
166 pinforc
167 pkcs11
168 pkgconfig
169 pki
170 plymouth
171 pm
172 polkit-1
173 popt.d
174 ppp
```

Plain Text Tab Width: 8 Ln 235, Col 19 INS

Activi... Text ... May 6 10:14

Open file.txt ~/ Save

```
175 printcap
176 profile
177 profile.d
178 protocols
179 pulse
180 qemu
181 qemu-ga
182 radvd.conf
183 rc0.d
184 rc1.d
185 rc2.d
186 rc3.d
187 rc4.d
188 rc5.d
189 rc6.d
190 rc.d
191 reader.conf.d
192 redhat-release
193 request-key.conf
194 request-key.d
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:14

Open file.txt ~/ Save

```
194 request-key.d  
195 resolv.conf  
196 rpc  
197 rpm  
198 rsyncd.conf  
199 rwtab.d  
200 rygel.conf  
201 samba  
202 sane.d  
203 sasl2  
204 security  
205 selinux  
206 services  
207 sestatus.conf  
208 sgml  
209 shadow  
210 shadow-  
211 shells  
212 skel  
213 sos
```

Plain Text Tab Width: 8 Ln 235, Col 19 INS

Activi... Text ... May 6 10:14

Open file.txt ~/ Save

```
214 speech-dispatcher
215 ssh
216 ssl
217 sssd
218 statetab.d
219 subgid
220 subgid-
221 subuid
222 subuid-
223 sudo.conf
224 sudoers
225 sudoers.d
226 swid
227 swtpm-localca.conf
228 swtpm-localca.options
229 swtpm_setup.conf
230 sysconfig
231 sysctl.conf
232 sysctl.d
```

Plain Text Tab Width: 8 Ln 235, Col 19 INS

Activi... Text ... May 6 10:15

Open file.txt ~/ Save

```
233 systemd
234 system-release
235 system-release-cpe
236 tcsd.conf
237 terminfo
238 thermald
239 tmpfiles.d
240 tpm2-tss
241 Trolltech.conf
242 trusted-key.key
243 udev
244 udisks2
245 unbound
246 updatedb.conf
247 UPower
248 ureourced.conf
249 usb_modeswitch.conf
250 vconsole.conf
251 virc
252 vmware-tools
```

Plain Text Tab Width: 8 Ln 235, Col 19

A screenshot of a text editor window titled "file.txt". The window has a standard OS X-style interface with a toolbar at the top and bottom. The main area contains a list of file names, each preceded by a number from 244 to 263. The files listed are: 244 uartsksz, 245 unbound, 246 updatedb.conf, 247 UPower, 248 ureourced.conf, 249 usb_modeswitch.conf, 250 vconsole.conf, 251 virc, 252 vmware-tools, 253 vpnc, 254 vulkan, 255 wgetrc, 256 wireplumber, 257 wpa_supplicant, 258 X11, 259 xattr.conf, 260 xdg, 261 xml, 262 yum.repos.d, and 263 zfs-fuse.

```
244 uartsksz
245 unbound
246 updatedb.conf
247 UPower
248 ureourced.conf
249 usb_modeswitch.conf
250 vconsole.conf
251 virc
252 vmware-tools
253 vpnc
254 vulkan
255 wgetrc
256 wireplumber
257 wpa_supplicant
258 X11
259 xattr.conf
260 xdg
261 xml
262 yum.repos.d
263 zfs-fuse
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Дописали в этот же файл названия файлов, содержащихся в моем домашнем каталоге.

Activi...

Termi...

May 6 10:19



dabedasa@fedora:~



```
[dabedasa@fedora ~]$ cd
[dabedasa@fedora ~]$ ls /etc > file.txt
[dabedasa@fedora ~]$ ls
abc1      Downloads  junly    objects   ski.places
ad.txt    feathers   may      Pictures  Templates
april.txt file.txt  monthly   play     Videos
australia hooks    Monthly  Public
Desktop   info      Music    refs
Documents july.txt my.os   reports
[dabedasa@fedora ~]$ gedit file.txt
[dabedasa@fedora ~]$ ls >> file.txt
[dabedasa@fedora ~]$ gedit file.txt
[dabedasa@fedora ~]$ █
```

Activi... Text ... May 6 10:17

Open file.txt ~ Save

```
1 abrt
2 adjtime
3 aliases
4 alsa
5 alternatives
6 anaconda
7 anthy-unicode.conf
8 appstream.conf
9 alsound.conf
10 audit
11 authselect
12 avahi
13 bash_completion.d
14 bashrc
15 bindresvport.blacklist
16 binfmt.d
17 bluetooth
18 brlapi.key
19 brltty
20 brltty.conf
```

Plain Text ▾ Tab Width: 8 ▾ Ln 235, Col 19 ▾ INS

Activi... Text ... May 6 10:17

Open + file.txt ~ Save x

```
19 brltty
20 brltty.conf
21 ceph
22 chkconfig.d
23 chromium
24 chrony.conf
25 chrony.keys
26 cifs-utils
27 containers
28 crypto-policies
29 crypttab
30 csh.cshrc
31 csh.login
32 cups
33 cupshelpers
34 dbus-1
35 dconf
36 default
37 depmod.d
38 dhcp
```

Plain Text ▾ Tab Width: 8 ▾ Ln 38, Col 1 ▾ INS

Activi... Text ... May 6 10:17

Open + file.txt ~ Save ⌂ ×

```
39 DIR_COLORS
40 DIR_COLORS.lightbgcolor
41 dleyna-renderer-service.conf
42 dleyna-server-service.conf
43 dnf
44 dnsmasq.conf
45 dnsmasq.d
46 dracut.conf
47 dracut.conf.d
48 egl
49 environment
50 ethertypes
51 exports
52 exports.d
53 extlinux.conf
54 favicon.png
55 fedora-release
56 filesystems
57 firefox
58 firewalld
```

Plain Text ▾ Tab Width: 8 ▾ Ln 56, Col 1 ▾ INS

Activi... Text ... May 6 10:17

Open + file.txt ~ Save x

```
50 firewatu
59 flatpak
60 flexiblasrc
61 flexiblasrc.d
62 fonts
63 fprintd.conf
64 fstab
65 fuse.conf
66 fwupd
67 gcrypt
68 gdbinit
69 gdbinit.d
70 gdm
71 geoclue
72 glvnd
73 gnupg
74 GREP_COLORS
75 groff
76 group
77 group-
```

Plain Text ▾ Tab Width: 8 ▾ Ln 77, Col 1 ▾ INS

Activi... Text ... May 6 10:17

Open + file.txt ~ Save x

```
// group-
78 grub2.cfg
79 grub2-efi.cfg
80 grub.d
81 gshadow
82 gshadow-
83 gss
84 gssproxy
85 host.conf
86 hostname
87 hosts
88 hp
89 httpd
90 idmapd.conf
91 init.d
92 inittab
93 inputrc
94 iproute2
95 iscsi
96 issue
```

Plain Text ▾ Tab Width: 8 ▾ Ln 96, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open + file.txt ~ Save x

```
90 issue
97 issue.d
98 issue.net
99 java
100 jvm
101 jvm-common
102 jwhois.conf
103 kdump
104 kdump.conf
105 kernel
106 krb5.conf
107 krb5.conf.d
108 ld.so.cache
109 ld.so.conf
110 ld.so.conf.d
111 libaudit.conf
112 libblockdev
113 libibverbs.d
114 libnl
115 libpaper.d
```

Plain Text ▾ Tab Width: 8 ▾ Ln 115, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open file.txt ~/ Save

```
115 cropaper.u
116 libreport
117 libssh
118 libuser.conf
119 libvirt
120 locale.conf
121 localtime
122 login.defs
123 logrotate.conf
124 logrotate.d
125 lvm
126 machine-id
127 magic
128 mailcap
129 makedumpfile.conf.sample
130 man_db.conf
131 mcelog
132 mdevctl.d
133 mime.types
134 mke2fs.conf
```

Plain Text ▾ Tab Width: 8 ▾ Ln 134, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open + file.txt ~ Save ⌂ ×

```
134 mke2fs.com
135 modprobe.d
136 modules-load.d
137 motd
138 motd.d
139 mtab
140 mtools.conf
141 my.cnf
142 my.cnf.d
143 nanorc
144 ndctl
145 netconfig
146 NetworkManager
147 networks
148 nfs.conf
149 nfsmount.conf
150 nftables
151 nsswitch.conf
152 nsswitch.conf.bak
153 openldap
```

Plain Text ▾ Tab Width: 8 ▾ Ln 153, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open + file.txt ~ Save x

```
153 openvudap
154 opensc.conf
155 opensc-x86_64.conf
156 openvpn
157 opt
158 os-release
159 ostree
160 PackageKit
161 pam.d
162 papersize
163 passwd
164 passwd-
165 passwdqc.conf
166 pinforc
167 pkcs11
168 pkgconfig
169 pki
170 plymouth
171 pm
172 polkit-1
```

Plain Text ▾ Tab Width: 8 ▾ Ln 172, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open + file.txt ~ Save x

```
172 poptkrc-1
173 popt.d
174 ppp
175 printcap
176 profile
177 profile.d
178 protocols
179 pulse
180 qemu
181 qemu-ga
182 radvd.conf
183 rc0.d
184 rc1.d
185 rc2.d
186 rc3.d
187 rc4.d
188 rc5.d
189 rc6.d
190 rc.d
191 reader.conf.d
```

Plain Text ▾ Tab Width: 8 ▾ Ln 191, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open file.txt ~/ Save

```
191 reader.com.u
192 redhat-release
193 request-key.conf
194 request-key.d
195 resolv.conf
196 rpc
197 rpm
198 rsyncd.conf
199 rwtab.d
200 rygel.conf
201 samba
202 sane.d
203 sasl2
204 security
205 selinux
206 services
207 sestatus.conf
208 sgml
209 shadow
210 shadow-
```

Plain Text Tab Width: 8 Ln 210, Col 1 INS

Activi... Text ... May 6 10:18

Open file.txt ~/ Save

```
211 shells
212 skel
213 sos
214 speech-dispatcher
215 ssh
216 ssl
217 sssd
218 statetab.d
219 subgid
220 subgid-
221 subuid
222 subuid-
223 sudo.conf
224 sudoers
225 sudoers.d
226 swid
227 swtpm-localca.conf
228 swtpm-localca.options
229 swtpm_setup.conf
230 sysconfig
```

Plain Text ▾ Tab Width: 8 ▾ Ln 229, Col 1 ▾ INS

Activi... Text ... May 6 10:18

Open file.txt ~ Save

```
230 sysconrig  
231 sysctl.conf  
232 sysctl.d  
233 systemd  
234 system-release  
235 system-release-cpe  
236 tcsd.conf  
237 terminfo  
238 thermald  
239 tmpfiles.d  
240 tpm2-tss  
241 Trolltech.conf  
242 trusted-key.key  
243 udev  
244 udisks2  
245 unbound  
246 updatedb.conf  
247 UPower  
248 ureourced.conf  
249 usb_modeswitch.conf
```

Plain Text ▾ Tab Width: 8 ▾ Ln 249, Col 1 ▾ INS

Activi... Text ... May 6 10:19

file.txt ~/ Save

Open 249 usd_imodeswitch.com
250 vconsole.conf
251 virc
252 vmware-tools
253 vpnc
254 vulkan
255 wgetrc
256 wireplumber
257 wpa_supplicant
258 X11
259 xattr.conf
260 xdg
261 xml
262 yum.repos.d
263 zfs-fuse
264 abc1
265 ad.txt
266 april.txt
267 australia
268 Desktop

Plain Text ▾ Tab Width: 8 ▾ Ln 268, Col 1 ▾ INS

Activi... Text ... May 6 10:19

Open file.txt ~/ Save

```
268 DESKTOP
269 Documents
270 Downloads
271 feathers
272 file.txt
273 hooks
274 info
275 july.txt
276 junly
277 may
278 monthly
279 Monthly
280 Music
281 my_os
282 objects
283 Pictures
284 play
285 Public
286 refs
287 reports
```

Plain Text Tab Width: 8 Ln 287, Col 1 INS

A screenshot of a terminal window titled "Text ...". The window shows the contents of a file named "file.txt" located at the root directory (~). The file contains a list of file names, each preceded by a number from 271 to 290. The last item in the list, "Videos", is currently selected. The terminal interface includes standard buttons for "Open", "Save", and "Close", along with other icons. At the bottom, there are dropdown menus for "Plain Text", "Tab Width: 8", and "Ln 290, Col 7", and a status bar indicating "INS".

```
271 readers
272 file.txt
273 hooks
274 info
275 july.txt
276 junly
277 may
278 monthly
279 Monthly
280 Music
281 my_os
282 objects
283 Pictures
284 play
285 Public
286 refs
287 reports
288 ski.places
289 Templates
290 Videos
```

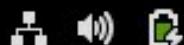
Plain Text ▾ Tab Width: 8 ▾ Ln 290, Col 7 ▾ INS

- Вывели имена всех файлов из file.txt, имеющих расширение .conf.

Activi...

Termi...

May 6 10:21



dabedasa@fedora:~



```
[dabedasa@fedora ~]$ grep .conf file.txt
anthy-unicode.conf
appstream.conf
asound.conf
brltty.conf
chkconfig.d
chrony.conf
dconf
dleyna-renderer-service.conf
dleyna-server-service.conf
dnsmasq.conf
dracut.conf
dracut.conf.d
extlinux.conf
fprintd.conf
fuse.conf
host.conf
idmapd.conf
jwhois.conf
kdump.conf
krb5.conf
```

Activities

Terminal

May 6 10:22



dabedasa@fedora:~

```
-----  
krb5.conf.d  
ld.so.conf  
ld.so.conf.d  
libaudit.conf  
libuser.conf  
locale.conf  
logrotate.conf  
makedumpfile.conf.sample  
man_db.conf  
mke2fs.conf  
mtools.conf  
netconfig  
nfs.conf  
nfsmount.conf  
nsswitch.conf  
nsswitch.conf.bak  
opensc.conf  
opensc-x86_64.conf  
passwdqc.conf  
pkgconfig  
radvd.conf
```

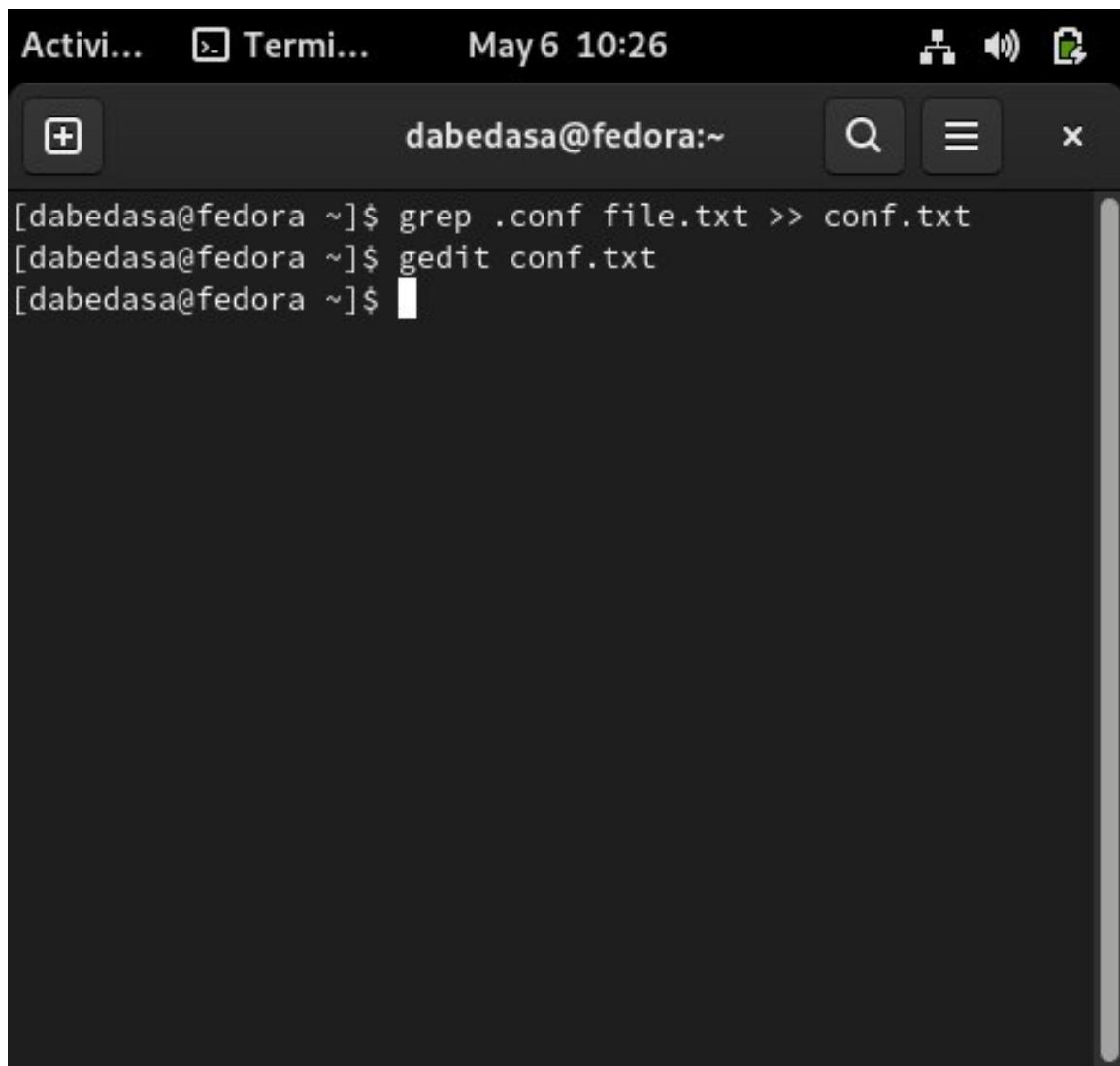
Activities Terminal May 6 10:22

[+]

dabedasa@fedora:~

```
pkgconfig
radvd.conf
reader.conf.d
request-key.conf
resolv.conf
rsyncd.conf
rygel.conf
sestatus.conf
sudo.conf
swtpm-localca.conf
swtpm_setup.conf
sysconfig
sysctl.conf
tcsd.conf
Trolltech.conf
updatedb.conf
uresourced.conf
usb_modeswitch.conf
vconsole.conf
xattr.conf
[dabedasa@fedora ~]$ cd
```

После этого записали их в новый текстовой файл conf.tx



A screenshot of a terminal window titled "Termi...". The window shows the following command history:

```
[dabedasa@fedora ~]$ grep .conf file.txt >> conf.txt
[dabedasa@fedora ~]$ gedit conf.txt
[dabedasa@fedora ~]$
```

- Определили, какие файлы в моем домашнем каталоге имеют имена, начинавшиеся с символа «с» двумя способами:
 - Использовали команду `find ~ -name "c*" -print` в текстовом редакторе

Activities Text Editor May 6 10:25

Open + conf.txt ~/

```
1 anthy-unicode.conf
2 appstream.conf
3 alsound.conf
4 brltty.conf
5 chkconfig.d
6 chrony.conf
7 dconf
8 dleyna-renderer-service.conf
9 dleyna-server-service.conf
10 dnsmasq.conf
11 dracut.conf
12 dracut.conf.d
13 extlinux.conf
14 fprintd.conf
15 fuse.conf
16 host.conf
17 idmapd.conf
18 jwhois.conf
19 kdump.conf
20 kmod.conf
21 kmod.conf.d
22 ld.so.conf
23 ld.so.conf.d
24 libaudit.conf
25 libuser.conf
26 locale.conf
27 logrotate.conf
28 makedumpfile.conf.sample
29 man_db.conf
30 mke2fs.conf
31 mtools.conf
32 netconfig
33 nfs.conf
34 nfsmount.conf
35 nsswitch.conf
36 nsswitch.conf.bak
37 opensc.conf
38 opensc-x86_64.conf
39 password.conf
```

Plain Text ▾ Tab Width: 8 ▾

Activities Text Editor May 6 10:25

Open + conf.txt ~/

```
20 krb5.conf
21 krb5.conf.d
22 ld.so.conf
23 ld.so.conf.d
24 libaudit.conf
25 libuser.conf
26 locale.conf
27 logrotate.conf
28 makedumpfile.conf.sample
29 man_db.conf
30 mke2fs.conf
31 mtools.conf
32 netconfig
33 nfs.conf
34 nfsmount.conf
35 nsswitch.conf
36 nsswitch.conf.bak
37 opensc.conf
38 opensc-x86_64.conf
39 password.conf
```

Plain Text ▾ Tab Width: 8 ▾

Activities Text Editor May 6 10:25

Open + conf.txt ~/

```
39 passwdqc.conf
40 pkgconfig
41 radvd.conf
42 reader.conf.d
43 request-key.conf
44 resolv.conf
45 rsyncd.conf
46 rygel.conf
47 sestatus.conf
48 sudo.conf
49 swtpm-localca.conf
50 swtpm_setup.conf
51 sysconfig
52 sysctl.conf
53 tcfd.conf
54 Trolltech.conf
55 updatedb.conf
56 uresourced.conf
57 usb_modeswitch.conf
```

Plain Text ▾ Tab Width: 8 ▾

Activities Text Editor May 6 10:26

Open + conf.txt ~/

```
40 passwdqc.conf
41 radvd.conf
42 reader.conf.d
43 request-key.conf
44 resolv.conf
45 rsyncd.conf
46 rygel.conf
47 sestatus.conf
48 sudo.conf
49 swtpm-localca.conf
50 swtpm_setup.conf
51 sysconfig
52 sysctl.conf
53 tcfd.conf
54 Trolltech.conf
55 updatedb.conf
56 uresourced.conf
57 usb_modeswitch.conf
58 vconsole.conf
59 xattr.conf
```

Plain Text ▾ Tab Width: 8 ▾

- Использовали команду ls -l | grep c*

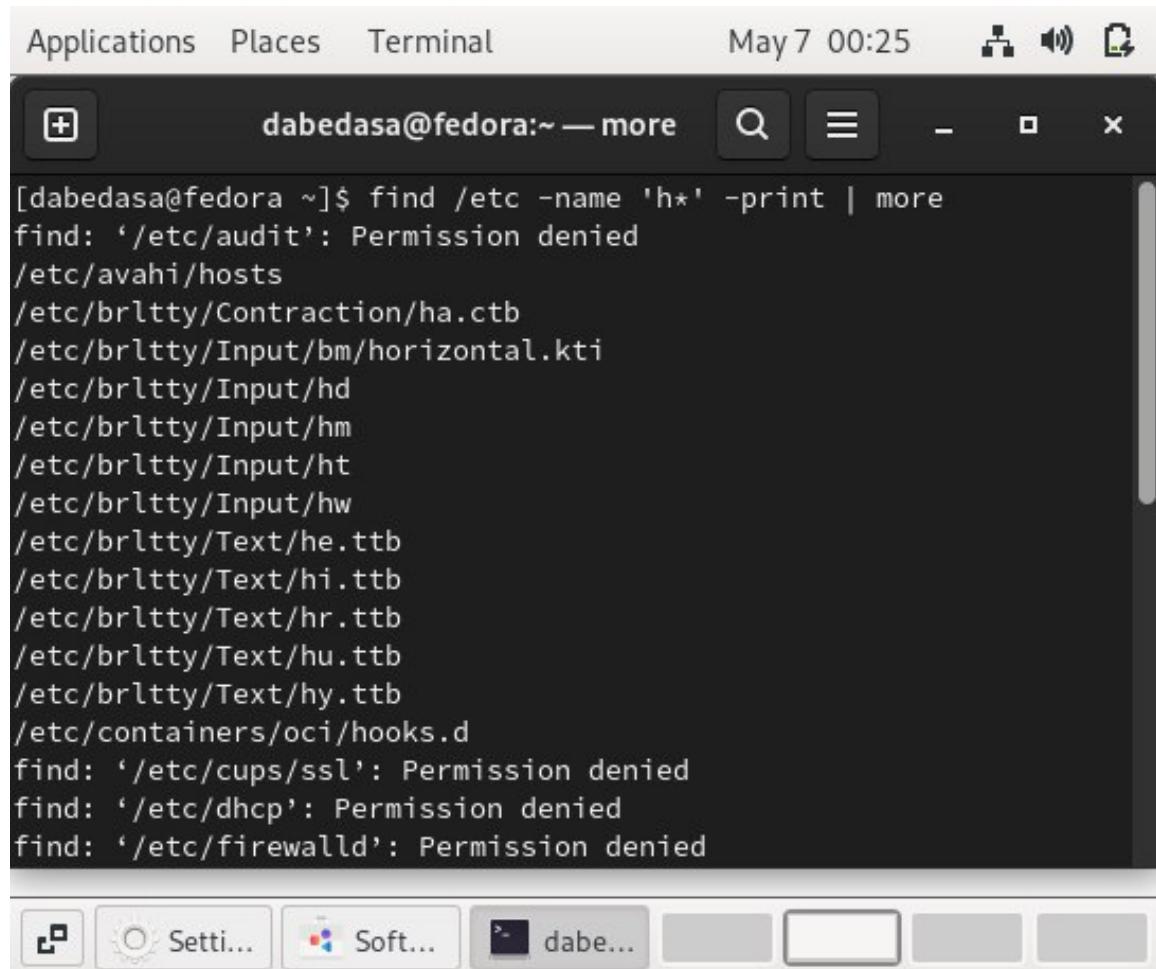
Activities Terminal May 6 10:30

```
[dabedasa@fedora ~]$ find ~ -name "c*" -print
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/crashes
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/compatibility.ini
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cookies.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web.sqlite-wal
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web._open.marker
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cert9.db
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/content-prefs.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/containers.json
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cookies.sqlite-wal
/home/dabedasa/.cache/evolution/calendar
/home/dabedasa/.cache/gnome-software/appstream/components.xmlb
/home/dabedasa/.cache/gnome-software/flatpak-system-default/components.xmlb
/home/dabedasa/.cache/gnome-software/flatpak-user-user/components.xmlb
/home/dabedasa/.cache/thumbnails/large/c81c028558f9c4c815fc20912753ece5.png
```

Activities Terminal May 6 10:30

```
[dabedasa@fedora ~]$ find ~ -name "c*" -print
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/crashes
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/compatibility.ini
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cookies.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web.sqlite-wal
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web._open.marker
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cert9.db
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/content-prefs.sqlite
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/containers.json
/home/dabedasa/.mozilla/firefox/n4ryz9hz.default-release/cookies.sqlite-wal
/home/dabedasa/.cache/evolution/calendar
/home/dabedasa/.cache/gnome-software/appstream/components.xmlb
/home/dabedasa/.cache/gnome-software/flatpak-system-default/components.xmlb
/home/dabedasa/.cache/gnome-software/flatpak-user-user/components.xmlb
/home/dabedasa/.cache/thumbnails/large/c81c028558f9c4c815fc20912753ece5.png
```

- Вывели на экран имена файлов из каталога /etc, начинающиеся с символа h.



The screenshot shows a terminal window titled "dabedasa@fedora:~ — more". The window displays the output of the command "find /etc -name 'h*' -print | more". The output lists various files and directories starting with 'h' in the /etc directory, including "/etc/audit", "/etc/avahi/hosts", and numerous files under "/etc/brltty". Some entries result in "Permission denied" errors. The terminal window has a standard Linux-style interface with a title bar, menu bar, and a scroll bar on the right.

```
[dabedasa@fedora ~]$ find /etc -name 'h*' -print | more
find: '/etc/audit': Permission denied
/etc/avahi/hosts
/etc/brltty/Contraction/ha.ctb
/etc/brltty/Input/bm/horizontal.kti
/etc/brltty/Input/hd
/etc/brltty/Input/hm
/etc/brltty/Input/ht
/etc/brltty/Input/hw
/etc/brltty/Text/he.ttb
/etc/brltty/Text/hi.ttb
/etc/brltty/Text/hr.ttb
/etc/brltty/Text/hu.ttb
/etc/brltty/Text/hy.ttb
/etc/containers/oci/hooks.d
find: '/etc/cups/ssl': Permission denied
find: '/etc/dhcp': Permission denied
find: '/etc/firewalld': Permission denied
```

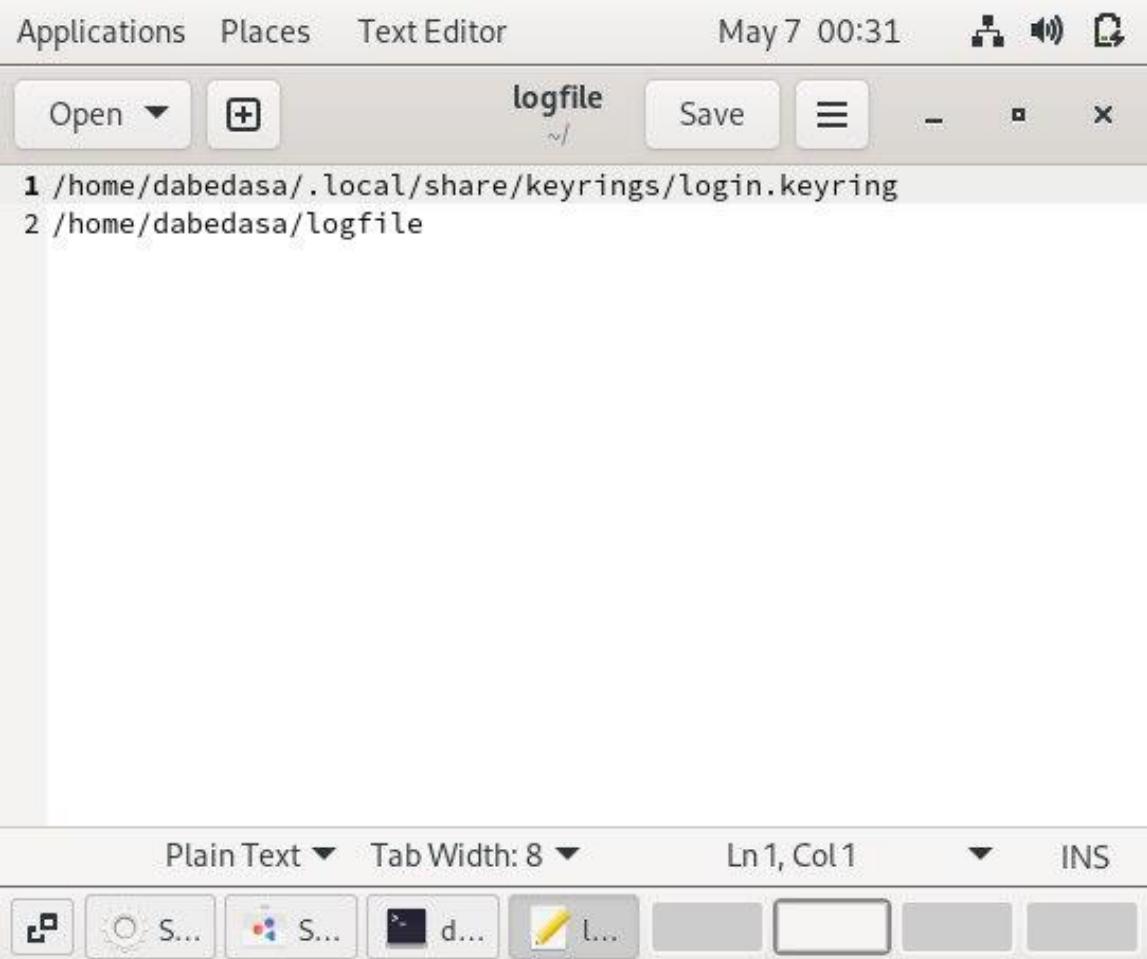
A screenshot of a terminal window titled "dabedasa@fedora:~ — more". The window shows the output of a "find" command with the "-perm/-user/-group" option set to "000". The output lists numerous files and directories that the user lacks permission to access, such as "/etc/cups/ssl", "/etc/dhcp", and various "/etc/libvirt", "/etc/lvm", and "/etc/polkit-1" files. The terminal interface includes a header bar with "Applications", "Places", and "Terminal" buttons, a date/time indicator "May 7 00:25", and a system tray icon. Below the terminal window is a dock with icons for "Setti...", "Soft...", and "dabe...".

```
find: '/etc/cups/ssl': Permission denied
find: '/etc/dhcp': Permission denied
find: '/etc/firewalld': Permission denied
find: '/etc/grub.d': Permission denied
/etc/hp
/etc/hp/hplip.conf
/etc/httpd
/etc/httpd/conf/httpd.conf
--More--find: '/etc/libvirt': Permission denied
find: '/etc/lvm/archive': Permission denied
find: '/etc/lvm/backup': Permission denied
find: '/etc/lvm/cache': Permission denied
find: '/etc/nftables': Permission denied
find: '/etc/openvpn/client': Permission denied
find: '/etc/openvpn/server': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/etc/sos/cleaner': Permission denied
```

- Запустили в фоновом режиме процесс, который будет записывать в файл `~/logfile` файлы, имена которых начинаются с `log`.

A screenshot of a terminal window titled "dabedasa@fedora:~". The window shows the command "find ~ -name 'log*' -print > ~/logfile &" being run, which collects log files from the current user's home directory into a file named "logfile". The process ID [1] 2518 is displayed. Below the terminal is a status bar with the same text. The desktop environment's top bar is visible at the top.

```
[dabedasa@fedora ~]$ find ~ -name 'log*' -print > ~/logfile &
[1] 2518
[dabedasa@fedora ~]$ gedit logfile
```



- Удалили файл ~/logfile.

A screenshot of a terminal window titled "dabedasa@fedora:~". The window shows the following command sequence:

```
[dabedasa@fedora ~]$ find ~ -name 'log*' -print > ~/logfile &
[1] 2518
[dabedasa@fedora ~]$ gedit logfile
[1]+ Done                  find ~ -name 'log*' -print > ~/logfile
[dabedasa@fedora ~]$ rm -i ~/logfile
rm: remove regular file '/home/dabedasa/logfile'? y
[dabedasa@fedora ~]$
```

- Запустили из консоли в фоновом режиме редактор gedit.
- Определили идентификатор процесса gedit, используя команду ps, конвейер и фильтр grep. Команда: ps axu | grep gedit. Определить этот идентификатор можно и более простым способом: он высвечивается сразу после запуска процесса в фоновом режиме. Также можно использовать команду jobs, которая выведет список запущенных в данный момент задач.

A screenshot of a terminal window titled "dabedasa@fedora:~". The window shows the following command sequence:

```
[dabedasa@fedora ~]$ gedit &
[1] 2576
[dabedasa@fedora ~]$ ps axu | grep gedit
dabedasa 2576 5.0 1.4 841448 58344 pts/1 sl 00:34 0:03 gedit
dabedasa 2636 0.0 0.0 221788 2296 pts/1 S+ 00:35 0:00 grep --color=auto gedit
[dabedasa@fedora ~]$
```

- Прочли справку (man) команды kill, после чего использовали её для завершения процесса gedit

Applications Places Terminal



dabedasa@fedora:~ — man kill

dabedasa@fedora:~ — more



dabedasa@

KILL(1)

User Commands

KILL(1)

NAME

kill - terminate a process

SYNOPSIS

```
kill [-signal|-s signal|-p] [-q value] [-a] [--timeout  
milliseconds signal] [--] pid|name...
```

```
kill -l [number] | -L
```

DESCRIPTION

The command **kill** sends the specified signal to the specified processes or process groups.

Applications Places Terminal



dabedasa@fedora:~ — man kill

dabedasa@fedora:~ — more



dabedasa@f

The command **kill** sends the specified signal to the specified processes or process groups.

If no signal is specified, the TERM signal is sent. The default action for this signal is to terminate the process. This signal should be used in preference to the KILL signal (number 9), since a process may install a handler for the TERM signal in order to perform clean-up steps before terminating in an orderly fashion. If a process does not terminate after a TERM signal has been sent, then the KILL signal may be used; be aware that the latter signal cannot be caught, and so does not give the target process the opportunity to perform any clean-up before terminating.

Manual page kill(1) line 13/185 16% (press h for help or q to quit)

Applications Places Terminal May 7

dabedasa@fedora:~

dabedasa@fedora:~ — more

```
[dabedasa@fedora ~]$ gedit &
[2] 2713
[dabedasa@fedora ~]$ ps axu | grep gedit
dabedasa 2576 2.6 1.5 1108328 63216 pts/1 Sl 00:34 0:08 gedit
dabedasa 2724 0.0 0.0 221788 2248 pts/1 S+ 00:39 0:00 grep --color=auto gedit
[2]+ Done gedit
[dabedasa@fedora ~]$ man kill
[dabedasa@fedora ~]$ kill % 2576 cd
bash: kill: arguments must be process or job IDs
[1]+ Terminated gedit
[dabedasa@fedora ~]$ man kill
[dabedasa@fedora ~]$ 
```

- Выполнили команды df и du, предварительно получив более подробную информацию об этих командах, с помощью команды man.

Applications Places Terminal May 7 00:44

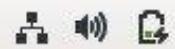
dabedasa@fedora:~

dabedasa@fedora:~ — m...

```
[dabedasa@fedora ~]$ man df
[dabedasa@fedora ~]$ man du
[dabedasa@fedora ~]$ 
```

Applications Places Terminal

May 7 00:46



dabedasa@fedora:~



dabedasa@fedora:~ — m...

dabedasa@fedora:~

```
[dabedasa@fedora ~]$ man df
[dabedasa@fedora ~]$ man du
[dabedasa@fedora ~]$ 
[dabedasa@fedora ~]$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
devtmpfs        1983792      0   1983792   0% /dev
tmpfs          2004136      0   2004136   0% /dev/shm
tmpfs          801656     1368   800288   1% /run
/dev/sda2       32504832  5198936  27127432  17% /
/dev/sda2       32504832  5198936  27127432  17% /home
tmpfs          2004140      44   2004096   1% /tmp
/dev/sdal       996780   175220    752748  19% /boot
tmpfs          400824      120   400704   1% /run/user/1000
[dabedasa@fedora ~]$ du
```



Setti...



Soft...



dabe...

Applications Places Terminal May

dabedasa@fedora:~ — more

```
0 ./mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}
0 ./mozilla/extensions
0 ./mozilla/plugins
0 ./mozilla/firefox/Crash Reports/events
4 ./mozilla/firefox/Crash Reports
0 ./mozilla/firefox/Pending Pings
0 ./mozilla/firefox/n4ryz9hz.default-release/minidumps
0 ./mozilla/firefox/n4ryz9hz.default-release/crashes/events
4 ./mozilla/firefox/n4ryz9hz.default-release/crashes
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/3870112724r
s/journals
772 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/3870112724r
s
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/3561288849s
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/1451318868n
r.files
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/1657114595A
```

Settings Software dabedasa@fedora:~

Applications Places Terminal May 7

dabedasa@fedora:~ — more

```
r.files
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/1657114595An
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/2823318777nt
d.files
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb/2918063365pi
9172 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome/idb
9176 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent/chrome
9176 ./mozilla/firefox/n4ryz9hz.default-release/storage/permanent
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/temporary
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/default/moz-extension+++b9e2ed45-
69cabbedd^userContextId=4294967295/idb/3647222921wleabcEoxlt-eengsairo.files
44 ./mozilla/firefox/n4ryz9hz.default-release/storage/default/moz-extension+++b9e2ed45-
69cabbedd^userContextId=4294967295/idb
48 ./mozilla/firefox/n4ryz9hz.default-release/storage/default/moz-extension+++b9e2ed45-
69cabbedd^userContextId=4294967295
0 ./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+++web.whatsapp.com/
files
```

Settings Software dabedasa@fedora:~

dabedasa@fedora:~ — more

```
14084 ./cache/mozilla/firefox/n4ryz9hz.default-release/startupCache
46944 ./cache/mozilla/firefox/n4ryz9hz.default-release/cache2/entries
0 ./cache/mozilla/firefox/n4ryz9hz.default-release/cache2/doomed
47024 ./cache/mozilla/firefox/n4ryz9hz.default-release/cache2
16 ./cache/mozilla/firefox/n4ryz9hz.default-release/thumbnails
8 ./cache/mozilla/firefox/n4ryz9hz.default-release/settings/main/ms-language-packs
8 ./cache/mozilla/firefox/n4ryz9hz.default-release/settings/main
8 ./cache/mozilla/firefox/n4ryz9hz.default-release/settings
1372 ./cache/mozilla/firefox/n4ryz9hz.default-release/personality-provider
12472 ./cache/mozilla/firefox/n4ryz9hz.default-release/safebrowsing/google4
14544 ./cache/mozilla/firefox/n4ryz9hz.default-release/safebrowsing
77052 ./cache/mozilla/firefox/n4ryz9hz.default-release
0 ./cache/mozilla/firefox/wgpmcq6y.default
77052 ./cache/mozilla/firefox
77052 ./cache/mozilla
8 ./cache/fontconfig
```



Settings

Software

dabedasa@fedora:~

Applications Places Terminal



dabedasa@fedora:~

dabedasa@fedora:~ — more

```
0 ./refs
0 ./objects/pack
0 ./objects/info
0 ./objects
12 ./gnupg
0 ./monthly
0 ./reports/monthly/monthly
0 ./reports/monthly/july/april
0 ./reports/monthly/july
0 ./reports/monthly
0 ./reports
0 ./Monthly
8 ./ski.places/equipment
0 ./ski.places/plans
8 ./ski.places
0 ./play
```



Settings

Software

dabedasa@fedora:~

Applications Places Terminal



dabedasa@fedora:~

dabedasa@fedora:~ — more



```
118332 ./cacne
8     ./config/dconf
0     ./config/goa-1.0
8     ./config/ibus/bus
8     ./config/ibus
12    ./config/evolution/sources
12    ./config/evolution
4     ./config/pulse
4     ./config/gtk-3.0
0     ./config/abrt
0     ./config/gnome-session/saved-session
0     ./config/gnome-session
4     ./config/gnome-boxes/sources
4     ./config/gnome-boxes
0     ./config/nautilus
4     ./config/gnome-control-center/backgrounds
4     ./config/gnome-control-center
```



Settings



Software



dabedasa@

The screenshot shows a desktop environment with a terminal window open. The terminal window title is "dabedasa@fedora:~". The window contains the following command-line session:

```
8 ./ski.places/equipment
0 ./ski.places/plans
8 ./ski.places
0 ./play
242064 .
[dabedasa@fedora ~]$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
devtmpfs        1983792      0   1983792  0% /dev
tmpfs           2004136      0   2004136  0% /dev/shm
tmpfs           801656     1368   800288  1% /run
/dev/sda2       32504832 5199312 27127056 17% /
/dev/sda2       32504832 5199312 27127056 17% /home
tmpfs           2004140      44   2004096  1% /tmp
/dev/sda1       996780  175220   752748 19% /boot
tmpfs           400824     120   400704  1% /run/user/1000
[dabedasa@fedora ~]$
```

The terminal window has a blue bar at the top indicating it is active. Below the terminal are several icons in the dock, including "Setti...", "Soft...", and "dabe...".

Вывод du настолько огромный, что его начало консоль не показала.

- Воспользовавшись справкой команды find, вывели имена всех директорий, имеющихся в вашем домашнем каталоге.

Applications Places Terminal

May 7 00:52



dabedasa@fedora:~



dabedasa@fedora:~ — m... x

dabedasa@fedora:~ x

```
[dabedasa@fedora ~]$ man find
[dabedasa@fedora ~]$ find -type d
.
./mozilla
./mozilla/extensions
./mozilla/extensions/{ec8030f7-c20a-464f-9b0e-13a3a9e97384}
./mozilla/plugins
./mozilla/firefox
./mozilla/firefox/Crash Reports
./mozilla/firefox/Crash Reports/events
./mozilla/firefox/Pending Pings
./mozilla/firefox/n4ryz9hz.default-release
./mozilla/firefox/n4ryz9hz.default-release/minidumps
./mozilla/firefox/n4ryz9hz.default-release/crashes
./mozilla/firefox/n4ryz9hz.default-release/crashes/events
./mozilla/firefox/n4ryz9hz.default-release/storage
./mozilla/firefox/n4ryz9hz.default-release/storage/permanent
```



Setti...



Soft...



dabe...

Applications Places Terminal

May 7 00:53



dabedasa@fedora:~



dabedasa@fedora:~ — m... ×

dabedasa@fedora:~ ×

```
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/85
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/120
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/144
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/190
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/119
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/209
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/178
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
++web.whatsapp.com/cache/morgue/149
./mozilla/firefox/n4ryz9hz.default-release/storage/default/https+
```



Setti...

Soft...

dabe...

Applications Places Terminal May 7 00:53

dabedasa@fedora:~

dabedasa@fedora:~ — m... x dabedasa@fedora:~ x

```
./objects
./objects/pack
./objects/info
./.gnupg
./monthly
./reports
./reports/monthly
./reports/monthly/monthly
./reports/monthly/july
./reports/monthly/july/april
./Monthly
./ski.places
./ski.places/equipment
./ski.places/plans
./play
[dabedasa@fedora ~]$
```

Setti... Soft... dabe...

Количество директорий также огромное и консоль не показывает начало списка.

Вывод:

В ходе работы мы ознакомились с инструментами поиска файлов и фильтрации текстовых данных, а также приобрели практические навыки как по управлению процессами и заданиями, так и по проверке использования диска и обслуживанию файловых систем.

Ответы на контрольные вопросы:

- `stdin` — стандартный поток ввода (клавиатура),
– `stdout` — стандартный поток вывода (консоль),
– `stderr` — стандартный поток вывод сообщений об ошибках на экран.
- Символ `<` используется для переназначения стандартного ввода команд.
Символ `>` используется для присоединения данных в конец файла стандартного вывода команды(файл открывается в режиме добавления).

- Конвейер - способ связи между двумя программами. Конвейер (pipe) служит для объединения простых команд или утилит в цепочки, в которых результат работы предыдущей команды передается последующей. Синтаксис следующий: команда1 | команда2.

- Процесс - это программа, которая выполняется в отдельном виртуальном адресном пространстве. Когда пользователь регистрируется в системе, автоматически создается процесс, в котором выполняется оболочка (shell), например, /bin/bash.

Компьютерная программа сама по себе — это только пассивная совокупность инструкций, в то время как процесс — это непосредственное выполнение этих инструкций.

- Process ID(PID) - идентификатор порожденного процесса.

Group ID (GID) - идентификация группы пользователей.

- Запущенные фоном программы называются задачами (jobs). Ими можно управлять с помощью команды jobs, которая выводит список запущенных в данный момент задач. Для завершения задачи необходимо выполнить команду: kill %номер задачи.

- top — консольная команда, которая выводит список работающих в системе процессов и информации о них. По умолчанию она в реальном времени сортирует их по нагрузке на процессор.

htop — компьютерная программа, предназначенная для вывода на терминал списка запущенных процессов и информации о них. Создана, как альтернатива программы top.

- Команда find используется для поиска и отображения имен файлов, соответствующих заданной строке символов.

Формат команды: find путь [-опции].

Путь определяет каталог, начиная с которого по всем подкаталогам будет вестись поиск.

Пример: Вывести на экран имена файлов из вашего домашнего каталога и его подкаталогов, начинающихся на f: find ~ -name "f*" –print, где ~ — обозначение вашего домашнего каталога, -name — после этой опции указывается имя файла, который нужно найти, "f*" — строка символов, определяющая имя файла, -print — опция, задающая вывод результатов поиска на экран.

- Можно, команда grep способна обрабатывать стандартный вывод других команд (любой текст). Для этого следует использовать конвейер, связав вывод команды с вводом grep.

Пример: Показать строки во всех файлах в вашем домашнем каталоге с именами, начинающимися на f, в которых есть слово begin: grep begin f*

- Команда df показывает размер каждого смонтированного раздела диска.
- Команда du показывает число килобайт, используемое каждым файлом или каталогом.
- Когда зависает процесс, следует нажать одновременно клавиши ctrl+alt+del, чтобы вызвать «Диспетчер задач», а после закрыть программу, которая не отвечает.

