Презентация к лабораторной работе №8

Дисциплина: Операционные системы

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Информация

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Вводная часть

Актуальность

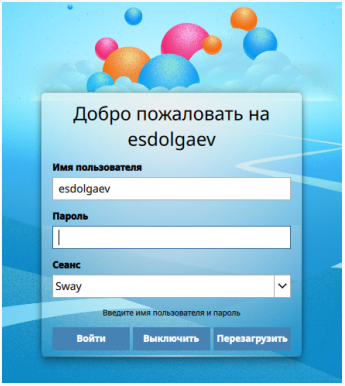
- Необходимость владения навыками работы с инструментами поиска файлов и фильтрации текстовых данных, а также с методами обслуживания файловых систем.

Цели и задачи

- Ознакомление с инструментами поиска файлов и фильтрации текстовых данных. Приобретение практических навыков: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.

Лабораторная работа

Задание 1


Добро пожаловать на esdolgaev
Имя пользователя
esdolgaev
Пароль
Сеанс
Sway
Введите имя пользователя и пароль
Войти
Выключить
Перезагрузить

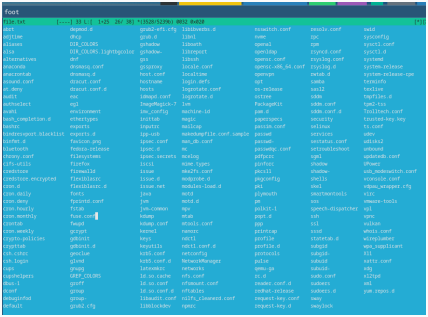
Задание 2

- Запишем в файл file.txt названия файлов, содержащихся в каталоге /etc и в домашнем каталоге.

Задание 2

```
root@esdolgaev:/etc# cd
root@esdolgaev:~# touch file.txt
```

Задание 2



Задание 3

Выведем имена всех файлов из file.txt, имеющих расширение .conf, после чего запишем их в новый текстовой файл conf.txt.

Задание 3

```
root@esdolgaev:~# grep .conf file.txt
abrt                    depmod.d                grub2-efi.cfg  libibverbs.d          nsswitch.conf          resolv.conf          swid
adjtime                 dhcp                    grub.d         libnl                 nvme                   rpc                  sysconfig
aliases                 DIR_COLORS              gshadow        liboath               openal                 rpm                  sysctl.conf
alsa                    DIR_COLORS.lightbgcolor gshadow-       libreport             openldap               rsyncd.conf          sysctl.d
alternatives            dnf                     gss            libssh                opensc.conf            rsyslog.conf         systemd
anaconda                dnsmasq.conf            gssproxy       locale.conf           opensc-x86_64.conf     rsyslog.d            system-release
anacrontab              dnsmasq.d               host.conf      localtime             openvpn                rwtab.d              system-release-cpe
asound.conf             dracut.conf             hostname       login.defs            opt                    samba                terminfo
at.deny                 dracut.conf.d           hosts          logrotate.conf        os-release             sasl2                texlive
audit                   eac                     idmapd.conf    logrotate.d           ostree                 sddm                 tmpfiles.d
authselect              egl                     ImageMagick-7  lvm                   PackageKit             sddm.conf            tpm2-tss
avahi                   environment             imv_config     machine-id            pam.d                  sddm.conf.d          Trolltech.conf
bashrc                  exports                 inputrc        mailcap               passim.conf            selinux              ts.conf
bindresvport.blacklist  exports.d               ipp-usb        makedumpfile.conf.sample passwd               services             udev
binfmt.d                favicon.png             ipsec.conf     man_db.conf           passwd-                sestatus.conf        udisks2
bluetooth               fedora-release          ipsec.d        mc                    passwdqc.conf          setroubleshoot       unbound
chrony.conf             filesystems             ipsec.secrets  mcelog                pdfpcrc                sgml                 updatedb.conf
credstore               firewalld               issue          mke2fs.conf           pkcs11                 shadow-              usb_modeswitch.conf
credstore.encrypted     flexiblasrc             issue.d        modprobe.d            pkgconfig              shells               vconsole.conf
cron.deny               fprintd.conf            jvm            motd.d                pm                     sos                  vmware-tools
cron.monthly            fuse.conf               kdump          mtab                  popt.d                 ssh                  vpnc
crontab                 fwupd                   kdump.conf     mtools.conf           ppp                    ssl                  vulkan
cron.weekly             gcrypt                  kernel         nanorc                printcap               sssd                 whois.conf
crypttab                gdbinit.d               keyutils       ndctl.conf.d          profile.d              subgid               wpa_supplicant
csh.cshrc               geoclue                 krb5.conf      netconfig             protocols              subgid-              X11
csh.login               glvnd                   krb5.conf.d    NetworkManager        pulse                  subuid               xattr.conf
cupshelpers             GREP_COLORS             ld.so.cache    nfs.conf              rc.d                   sudo.conf            xl2tpd
dbus-1                  groff                   ld.so.conf     nfsmount.conf         reader.conf.d          sudoers              xml
dconf                   group                   ld.so.conf.d   nftables              redhat-release         sudoers.d            yum.repos.d
debuginfod              group-                  libaudit.conf  nilfs_cleanerd.conf   request-key.conf       sway
root@esdolgaev:~# grep .conf file.txt > conf.txt
```

Задание 3

```
/root/conf.txt
abrt                    depmod.d                grub2-efi.cfg           libibverbs.d            nsswitch.conf           resolv.conf             swid
adjtime                 dhcp                    grub.d                  libnl                   nvme                    rpc                     sysconfig
aliases                 DIR_COLORS              gshadow                 liboath                 openal                  rpm                     sysctl.conf
alsa                    DIR_COLORS.lightbgcolor gshadow-                libreport               openldap                rsyncd.conf             sysctl.d
alternatives            dnf                     gss                     libssh                  opensc.conf             rsyslog.conf            systemd
anaconda                dnsmasq.conf            gssproxy                locale.conf             opensc-x86_64.conf      rsyslog.d               system-release
anacrontab              dnsmasq.d               host.conf               localtime               openvpn                 rwtab.d                 system-release-cpe
asound.conf             dracut.conf             hostname                login.defs              opt                     samba                   terminfo
at.deny                 dracut.conf.d           hosts                   logrotate.conf          os-release              sasl2                   texlive
audit                   eac                     idmapd.conf             logrotate.d             ostree                  sddm                    tmpfiles.d
authselect              egl                     ImageMagick-7           lvm                     PackageKit              sddm.conf               tpm2-tss
avahi                   environment             imv_config              machine-id              pam.d                   sddm.conf.d             Trolltech.conf
bashrc                  exports                 inputrc                 mailcap                 passim.conf             selinux                 ts.conf
bindresvport.blacklist  exports.d               ipp-usb                 makedumpfile.conf.sample passwd                 services                udev
binfmt.d                favicon.png             ipsec.conf              man_db.conf             passwd-                 sestatus.conf           udisks2
bluetooth               fedora-release          ipsec.d                 mc                      passwdqc.conf           setroubleshoot          unbound
chrony.conf             filesystems             ipsec.secrets           mcelog                  pdfpcrc                 sgml                    updatedb.conf
credstore               firewalld               issue                   mke2fs.conf             pkcs11                  shadow-                 usb_modeswitch.conf
credstore.encrypted     flexiblasrc             issue.d                 modprobe.d              pkgconfig               shells                  vconsole.conf
cron.deny               fprintd.conf            jvm                     motd.d                  pm                      sos                     vmware-tools
cron.monthly            fuse.conf               kdump                   mtab                    popt.d                  ssh                     vpnc
crontab                 fwupd                   kdump.conf              mtools.conf             ppp                     ssl                     vulkan
cron.weekly             gcrypt                  kernel                  nanorc                  printcap                sssd                    whois.conf
crypttab                gdbinit.d               keyutils                ndctl.conf.d            profile.d               subgid                  wpa_supplicant
csh.cshrc               geoclue                 krb5.conf               netconfig               protocols               subgid-                 X11
csh.login               glvnd                   krb5.conf.d             NetworkManager          pulse                   subuid                  xattr.conf
cupshelpers             GREP_COLORS             ld.so.cache             nfs.conf                rc.d                    sudo.conf               xl2tpd
dbus-1                  groff                   ld.so.conf              nfsmount.conf           reader.conf.d           sudoers                 xml
dconf                   group                   ld.so.conf.d            nftables                redhat-release          sudoers.d               yum.repos.d
debuginfod              group-                  libaudit.conf           nilfs_cleanerd.conf     request-key.conf        sway
```

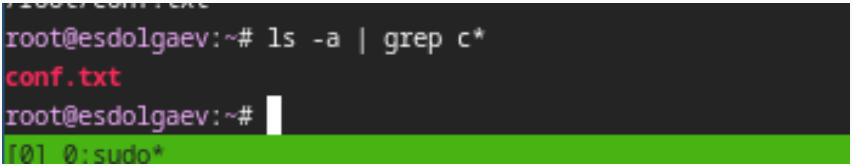
Задание 4

Определим, какие файлы в вашем домашнем каталоге имеют имена, начинавшиеся с символа c.

Задание 4

```
/root/.git/objects/88/c6bcd486bf88cae373d0347afdc8dfeb8e7eba
/root/.git/objects/11/c159200a71f8b9751cc1f3ffee33f3826cbac0f
/root/.git/objects/b8/c4aca394a7a3f46f7977c2e66a7ab570213e08
/root/.git/objects/b8/ce2cc9e1fc43e9a26926d133e21b7e3fd133
/root/.git/objects/b8/c04de25c2837e5314d63634e5e60c50c7b1b0b
/root/.git/objects/b8/c6e74867a446fa92a5c111abf08a4c3c0ae5df
/root/.git/objects/c2
/root/.git/objects/c2/c9868b66c06a89b9625d96a0fb4b8cf3cbcaee
/root/.git/objects/6a/c33b1140178b31bafae83ee7375661f38fcc5
/root/.git/objects/6a/c53290c6db21dca7ae39df226dd1a9e472d676
/root/.git/objects/85/c6934775761e98583abef0c2cc351b6fdfd6ad5
/root/.git/objects/a5/ceb6b10ea329328be96a8f6418598de6f7e9eb
/root/.git/objects/1f/c8aa77bab1e248acc395a837c582070df1d338
/root/.git/objects/1f/c2f34b10065ef863daad8de13401ae4561a2f9
/root/.git/objects/41/cfd7f9ec28d9f02c4423a75ea358b0b528ebe
/root/.git/objects/41/ca0d610ccddc6ed7229f6a304e49438a049476
/root/.git/objects/17/cfb1065befdaf3fe180bb9034725bc76ccc091
/root/.git/objects/17/ca670ecb7f34987b4331770b947dc26404f34c
/root/.git/objects/ef/c147d9fd126a6005c2267dc590944c59a927c
/root/.git/objects/ef/c21bc25567a0b89c5412fa33dd8ca707f7245e
/root/.git/objects/31/c2c5f79decb9eba04d59aa80b1ae448c223dcf
/root/.git/objects/31/c0711ab50b37e1e8fbb1b61a41bd19a4dbf220
/root/.git/objects/5b/c192b1306820cc18c08538f4fcc8d6922c063b2
/root/.git/objects/5b/c64d99cf3737fa688c3b8f04ab7df998c3caa2
/root/.git/objects/69/ced25258f406d53e1e2836181bdad90f6f453f3
/root/.git/objects/69/c1286f7714c7c2aa398ice1659b133fbe5a371
/root/.git/objects/69/c767bff1ab0c8af0a4680834f677f7904499611
/root/.git/objects/5d/c4dc85ef31e8ca883bfa8a8ceb3bab4cfb69f5
/root/.git/objects/63/cfe60d62ac81e59ac76a649f76677ad017b458
/root/.git/objects/63/ca97ecb28ab7e92065ee9d7c706de0bc666ee3
/root/.git/objects/63/caabfaa403ada404bb1415747d8995db19cd27a
/root/.git/objects/63/c055c0829859d92590c1f38f5872e9382836cb
/root/.git/objects/63/cb040d4552aa8d8568955 8a467f6b4135e6cbf
/root/.git/objects/c9
/root/.git/objects/c9/cffda1ee34b406cc23e1e7c374d8947ce52cf7
/root/.git/objects/c9/ca3f029f040208c62b22faff35740eaae6ea898e
/root/.git/objects/c9/c786a9e68816a9b727a3a2a4949cc7c9089341b
/root/.git/objects/c9/ca915bea9f895f680ffabb701d3d8e365f4051d
/root/.git/objects/c9/c520b256b61ffbfcc0e018f9aaaae0f46a7fcc8
/root/.git/objects/bf/c3934552dafe62f8c1d52eabf5b25b7959537f
/root/.git/objects/bf/c6aede0a253bedbe64687c4ca3b9ac70f1976eb
/root/.git/objects/bf/cfc5bd7dd43116932c9fe1f721ee0f9d1bc5e1
/root/.git/objects/bf/c7c8cc37eee39c3affe44d42ac1569558dc4ad
/root/.git/objects/bf/c3462850d7d3587739a2f08575dcb1da7876
/root/.git/objects/9c/c8be43eb72ca93f0f0db434ac577d13bb0c1db
/root/.git/objects/94/cbf297aa2031512acdb5d3a525f7b4f3c8a722
/root/.git/objects/27/c48109b4f368f54c463084f0a85347672ba4e0
/root/.git/config
/root/git-extended/.git/hooks/commit-msg.sample
/root/git-extended/.git/config
/root/.password-store/.git/hooks/commit-msg.sample
/root/.password-store/.git/objects/cd
/root/.password-store/.git/config
/root/bin/chezmoi
/root/conf.txt
root@esubluyev:~# find /root -name "c*"
[1] 3 stopped
```

Задание 4



Задание 5

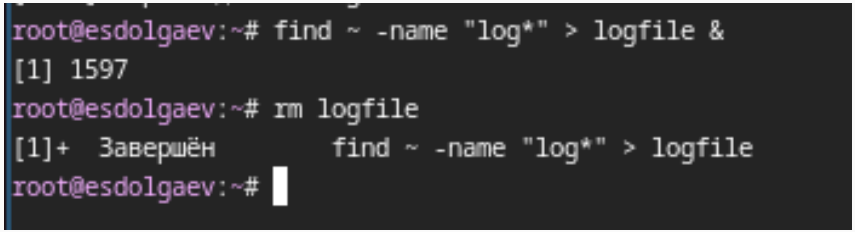
Выведем на экран (по странично) имена файлов из каталога /etc, начинающиеся с символа h.

Задание 5

```
root@esdolgaev:~# find /etc -name "h*" | more
/etc/avahi/hosts
/etc/firewalld/helpers
/etc/libibverbs.d/hfi1verbs.driver
/etc/libibverbs.d/hns.driver
/etc/nvme/hostnqn
/etc/nvme/hostid
/etc/udev/hwdb.d
/etc/udev/hwdb.bin
/etc/host.conf
/etc/hosts
/etc/hostname
```

Задания 6 и 7

Запустить в фоновом режиме процесс, который будет записывать в файл ~/logfile файлы, имена которых начинаются с log. Удалим logfile.

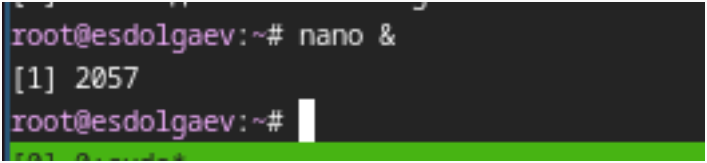

root@esdolgaev:~# find ~ -name "log*" > logfile &
[1] 1597
root@esdolgaev:~# rm logfile
[1]+ Завершён find ~ -name "log*" > logfile
root@esdolgaev:~#

Задание 8

Запустим из консоли в фоновом режиме редактор gedit (я запускал nano).

Задание 8

Задание 8



Задание 9

Определим идентификатор процесса gedit(nano), используя команду ps, конвейер и фильтр grep.

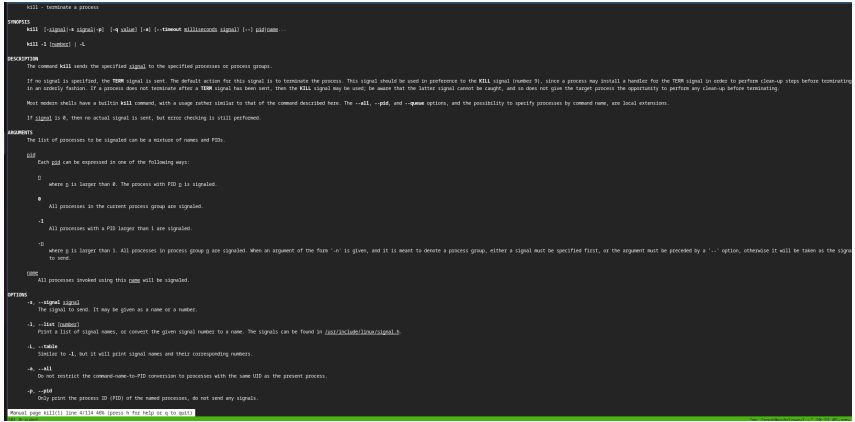
Задание 9

```
root@esdolgaev:~# ps aux | grep nano
root        2057  0.0  0.2 232764  4628 pts/2    T    20:29   0:00 nano
root        2194  0.0  0.1 230364  2392 pts/2    S+   20:31   0:00 grep --color=auto nano
```

Задание 10

Прочитаем справку (man) команды kill, после чего используем её для завершения процесса gedit.

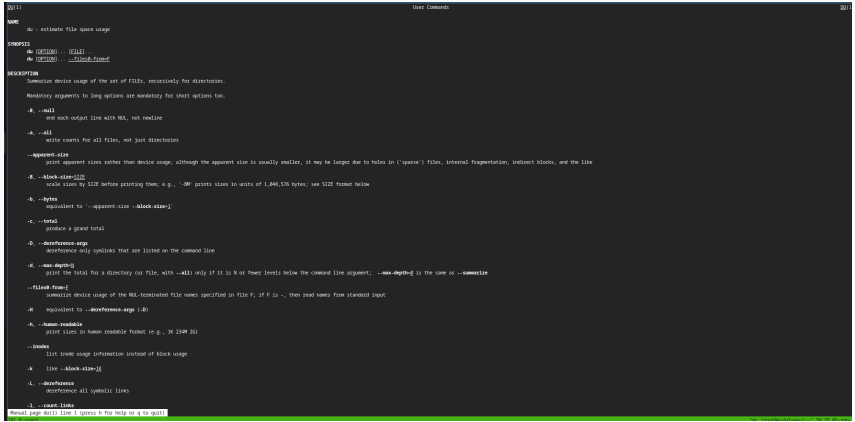
Задание 10


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.
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.
Most modern shells have a builtin kill command, with a usage rather similar to that of the command described here. The --all, --pid, and --queue options, and the possibility to specify processes by command name, are local extensions.
If signal is 0, then no actual signal is sent, but error checking is still performed.
ARGUMENTS
The list of processes to be signaled can be a mixture of names and PIDs.
pid
Each pid can be expressed in one of the following ways:
n
where n is larger than 0. The process with PID n is signaled.
0
All processes in the current process group are signaled.
-1
All processes with a PID larger than 1 are signaled.
-n
where n is larger than 1. All processes in process group n are signaled. When an argument of the form '-n' is given, and it is meant to denote a process group, either a signal must be specified first, or the argument must be preceded by a '--' option, otherwise it will be taken as the signal to send.
name
All processes invoked using this name will be signaled.
OPTIONS
-s, --signal signal
The signal to send. It may be given as a name or a number.
-l, --list [number]
Print a list of signal names, or convert the given signal number to a name. The signals can be found in /usr/include/linux/signal.h.
-L, --table
Similar to -l, but it will print signal names and their corresponding numbers.
-a, --all
Do not restrict the command-name-to-PID conversion to processes with the same UID as the present process.
-p, --pid
Only print the process ID (PID) of the named processes, do not send any signals.
Manual page kill(1) line 4/114 48% (press h for help or q to quit)

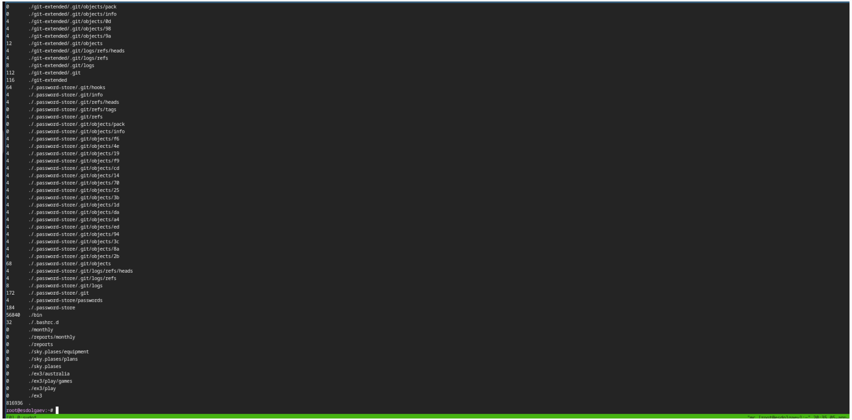
Задание 11

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

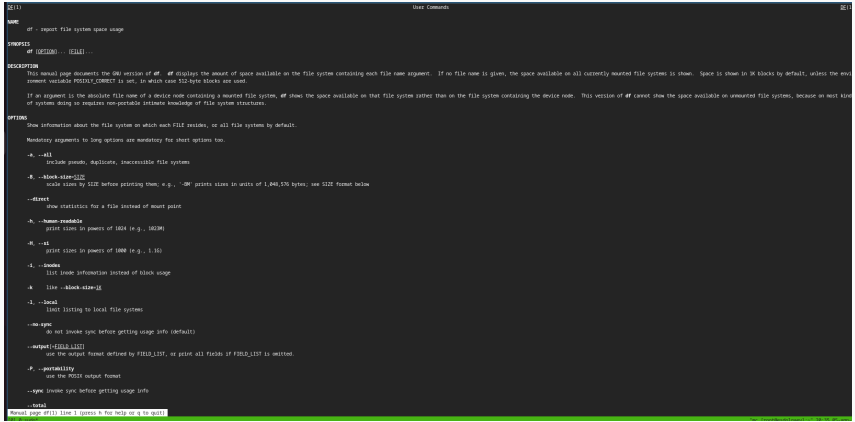
Задание 11


DU(1) User Commands DU(1)
NAME
du - estimate file space usage
SYNOPSIS
du [OPTION]... [FILE]...
du [OPTION]... --files0-from=F
DESCRIPTION
Summarize device usage of the set of FILEs, recursively for directories.
Mandatory arguments to long options are mandatory for short options too.
-0, --null
end each output line with NUL, not newline
-a, --all
write counts for all files, not just directories
--apparent-size
print apparent sizes rather than device usage; although the apparent size is usually smaller, it may be larger due to holes in ('sparse') files, internal fragmentation, indirect blocks, and the like
-B, --block-size=SIZE
scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE format below
-b, --bytes
equivalent to '--apparent-size --block-size=1'
-c, --total
produce a grand total
-D, --dereference-args
dereference only symlinks that are listed on the command line
-d, --max-depth=N
print the total for a directory (or file, with --all) only if it is N or fewer levels below the command line argument; --max-depth=0 is the same as --summarize
--files0-from=F
summarize device usage of the NUL-terminated file names specified in file F; if F is -, then read names from standard input
-H equivalent to --dereference-args (-D)
-h, --human-readable
print sizes in human readable format (e.g., 1K 234M 2G)
--inodes
list inode usage information instead of block usage
-k like --block-size=1K
-L, --dereference
dereference all symbolic links
-l, --count-links
Manual page du(1) line 1 (press h for help or q to quit)

Задание 11


0 ./git-extended/.git/objects/pack
0 ./git-extended/.git/objects/info
4 ./git-extended/.git/objects/0d
4 ./git-extended/.git/objects/98
4 ./git-extended/.git/objects/9a
12 ./git-extended/.git/objects
4 ./git-extended/.git/logs/refs/heads
4 ./git-extended/.git/logs/refs
8 ./git-extended/.git/logs
112 ./git-extended/.git
116 ./git-extended
64 ./.password-store/.git/hooks
4 ./.password-store/.git/info
4 ./.password-store/.git/refs/heads
0 ./.password-store/.git/refs/tags
4 ./.password-store/.git/refs
0 ./.password-store/.git/objects/pack
0 ./.password-store/.git/objects/info
4 ./.password-store/.git/objects/f6
4 ./.password-store/.git/objects/4e
4 ./.password-store/.git/objects/19
4 ./.password-store/.git/objects/f9
4 ./.password-store/.git/objects/cd
4 ./.password-store/.git/objects/14
4 ./.password-store/.git/objects/70
4 ./.password-store/.git/objects/25
4 ./.password-store/.git/objects/3b
4 ./.password-store/.git/objects/1d
4 ./.password-store/.git/objects/da
4 ./.password-store/.git/objects/a4
4 ./.password-store/.git/objects/ed
4 ./.password-store/.git/objects/94
4 ./.password-store/.git/objects/3c
4 ./.password-store/.git/objects/8a
4 ./.password-store/.git/objects/2b
68 ./.password-store/.git/objects
4 ./.password-store/.git/logs/refs/heads
4 ./.password-store/.git/logs/refs
8 ./.password-store/.git/logs
172 ./.password-store/.git
4 ./.password-store/passwords
184 ./.password-store
56840 ./bin
32 ./.bashrc.d
0 ./monthly
0 ./reports/monthly
0 ./reports
0 ./sky.plases/equipment
0 ./sky.plases/plans
0 ./sky.plases
0 ./ex3/australia
0 ./ex3/play/games
0 ./ex3/play
0 ./ex3
816936 .
root@esdolgaev:~#

Задание 11


DF(1) User Commands DF(1)
NAME
df - report file system space usage
SYNOPSIS
df [OPTION]... [FILE]...
DESCRIPTION
This manual page documents the GNU version of df. df displays the amount of space available on the file system containing each file name argument. If no file name is given, the space available on all currently mounted file systems is shown. Space is shown in 1K blocks by default, unless the envi
ronment variable POSIXLY_CORRECT is set, in which case 512-byte blocks are used.
If an argument is the absolute file name of a device node containing a mounted file system, df shows the space available on that file system rather than on the file system containing the device node. This version of df cannot show the space available on unmounted file systems, because on most kind
of systems doing so requires non-portable intimate knowledge of file system structures.
OPTIONS
Show information about the file system on which each FILE resides, or all file systems by default.
Mandatory arguments to long options are mandatory for short options too.
-a, --all
include pseudo, duplicate, inaccessible file systems
-B, --block-size=SIZE
scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE format below
--direct
show statistics for a file instead of mount point
-h, --human-readable
print sizes in powers of 1024 (e.g., 1023M)
-H, --si
print sizes in powers of 1000 (e.g., 1.1G)
-i, --inodes
list inode information instead of block usage
-k like --block-size=1K
-l, --local
limit listing to local file systems
--no-sync
do not invoke sync before getting usage info (default)
--output[=FIELD_LIST]
use the output format defined by FIELD_LIST, or print all fields if FIELD_LIST is omitted.
-P, --portability
use the POSIX output format
--sync invoke sync before getting usage info
--total
Manual page df(1) line 1 (press h for help or q to quit)

Задание 11

```
root@esdolgaev:~# df
Файловая система 1K-блоков Использовано Доступно Использовано% Смонтировано в
/dev/vda3          61249536     10482312 49650120           18% /
devtmpfs              4096            0     4096            0% /dev
tmpfs               998920         7460   991460            1% /dev/shm
efivarfs               256           21      231            9% /sys/firmware/efi/efivars
tmpfs               399572         1184   398388            1% /run
tmpfs                 1024            0     1024            0% /run/credentials/systemd-journald.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-udev-load-credentials.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-network-generator.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-sysctl.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-tmpfiles-setup-dev-early.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-tmpfiles-setup-dev.service
tmpfs               998924            4   998920            1% /tmp
/dev/vda3          61249536     10482312 49650120           18% /home
/dev/vda2            996780       299952   628016           33% /boot
/dev/vda1            613160        19808   593352            4% /boot/efi
tmpfs                 1024            0     1024            0% /run/credentials/systemd-tmpfiles-setup.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-vconsole-setup.service
tmpfs                 1024            0     1024            0% /run/credentials/systemd-resolved.service
tmpfs               199784           96   199688            1% /run/user/1000
tmpfs               199784           64   199720            1% /run/user/0
root@esdolgaev:~#
[0] 0:sudo*
```

Задание 12

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

Задание 12

```
/root/git-extended/.git/refs
/root/git-extended/.git/refs/heads
/root/git-extended/.git/refs/tags
/root/git-extended/.git/objects
/root/git-extended/.git/objects/pack
/root/git-extended/.git/objects/info
/root/git-extended/.git/objects/0d
/root/git-extended/.git/objects/98
/root/git-extended/.git/objects/9a
/root/git-extended/.git/logs
/root/git-extended/.git/logs/refs
/root/git-extended/.git/logs/refs/heads
/root/.password-store
/root/.password-store/.git
/root/.password-store/.git/hooks
/root/.password-store/.git/info
/root/.password-store/.git/refs
/root/.password-store/.git/refs/heads
/root/.password-store/.git/refs/tags
/root/.password-store/.git/objects
/root/.password-store/.git/objects/pack
/root/.password-store/.git/objects/info
/root/.password-store/.git/objects/f6
/root/.password-store/.git/objects/4e
/root/.password-store/.git/objects/19
/root/.password-store/.git/objects/f9
/root/.password-store/.git/objects/cd
/root/.password-store/.git/objects/14
/root/.password-store/.git/objects/70
/root/.password-store/.git/objects/25
/root/.password-store/.git/objects/3b
/root/.password-store/.git/objects/1d
/root/.password-store/.git/objects/da
/root/.password-store/.git/objects/a4
/root/.password-store/.git/objects/ed
/root/.password-store/.git/objects/94
/root/.password-store/.git/objects/3c
/root/.password-store/.git/objects/8a
/root/.password-store/.git/objects/2b
/root/.password-store/.git/logs
/root/.password-store/.git/logs/refs
/root/.password-store/.git/logs/refs/heads
/root/.password-store/passwords
/root/bin
/root/.bashrc.d
/root/monthly
/root/reports
/root/reports/monthly
/root/sky.plases
/root/sky.plases/equipment
/root/sky.plases/plans
/root/ex3
/root/ex3/australia
/root/ex3/play
/root/ex3/play/games
root@esdolgaev:~#
```

Результаты

- Таким образом, в ходе выполнения лабораторной работы я ознакомлся с инструментами поиска файлов и фильтрации текстовых данных. Приобрёл практические навыки: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.