Лабораторная работа №6.

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Цели и задачи работы —

Цели и задачи

Приобретение практических навыков взаимодействия пользователя с системой по- средством командной строки

Процесс выполнения лабораторной работы

Определим полное имя вашего домашнего каталога.

```
nvsaakyan@dk8n81 ~ $ cd
nvsaakyan@dk8n81 ~ $ pwd
/afs/.dk.sci.pfu.edu.ru/home/n/v/nvsaakyan
```

Рис. 1: Имя домашнего каталога

Перейдём в каталог /tmp

nvsaakyan@dk8n81 ~ \$ cd /tmp

Рис. 2: Переход в каталог /tmp

Выведем на экран содержимое каталога /tmp с помощью команды ls

```
nvsaakyan@dk8n81 /tmp $ ls
krbScc_5521_ZhNtbV
krbScc_5521_ZrK7a
nvsaakyan
portage
pulse-PKdhtZMer18n
root
screen
addm:0-wujNdy
addm=auth-131c3649-99cf-4ece-a054-8641c7d6cc67
systemd-private-0d4c73edc8s34be186c930e146bc4aa8-polkit.service-SDWOG9
systemd-private-0d4c73edc8s34be186c930e146bc4aa8-polkit.service-FSugo
systemd-private-0d4c73edc8s34be186c930e146bc4aa8-polkit.service-FSugo
systemd-private-0d4c73edc8s34be186c930e146bc4aa8-polkit.service-ip3o5Tk
systemd-private-0d4c73edc8s34be186c930e146bc4aa8-systemd-logind.service-umlhOl
systemd-private-0d4c7aedc8s34be186c930e146bc4aa8-systemd-resolved.service-noSMAP
systemd-private-0d4c7aedc8s34be186c930e146bc4aa8-upower-service-IRLKd1
Temp-8919f53b-cb9f-4adf-8f9b-8a35f8f7e2fd
tmux-0
```

Рис. 3: ls

Сравним команды ls -a и ls -F

```
nysaakvan@dk8n81 /tmp $ ls -a
krb5cc_5521_AbhtbV
krb5cc_5521_zRrK7a
ddm-:0-wujNdy
sddm-auth-131c3649-99cf-4ece-a054-8641c7d6ce67
X1-lock
X2-lock
nvsaakyan@dk8n81 /tmp $ ls -F
krb5cc_5521_AbhtbV
krb5cc 5521 zRrK7a
sddm-:0-wuiNdv=
sddm-auth-131c3649-99cf-4ece-a054-8641c7d6ce67=
```

Переходим в домашний каталог

```
nvsaakyan@dk8n81 /tmp $ cd
nvsaakyan@dk8n81 - $ ls
bin public work Докуненты Изображения Общедоступные Шаблоны
main.cpp public_html Видео Загрузки Музика 'Рабочий стол'
```

Рис. 5: Домашний каталог

Определим, кто является владельцем файлов и подкаталогов с помоью команды ls -l

```
nvsaakyan@dk8n81 - $ 1s -1
wroro 26
drwxr-xr-x 2 nvsaakyan studsci 2048 фев 27 17:24 bin
-rw-r-r-- 1 nvsaakyan studsci 85 фев 8 14:11 main.cpp
drwxr-xr-x 3 nvsaakyan root 2048 сен 5 17:45 public
-rwx-r-x 1 nvsaakyan root 18 фев 16 07:02 public_html -> public/public_html
drwxr-xr-x 5 nvsaakyan studsci 2048 сен 7 09:16 Bungeo
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Видео
drwxr-xr-x 3 nvsaakyan studsci 2048 сен 7 09:16 Докуненты
drwxr-xr-x 3 nvsaakyan studsci 2048 сен 7 09:16 Докуненты
drwxr-xr-x 3 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Музика
drwxr-xr-x 2 nvsaakyan studsci 2048 сен 7 09:16 Маблоны
```

Рис. 6: Имя домашнего каталога

В домашнем каталоге создаём новый каталог с именем newdir.

```
nvsaakyan@dk8n81 - $ mkdir newdir
nvsaakyan@dk8n81 - $ ls
bin newdir public_html Видео Загрузки Музыка 'Рабочий стол'
main.cpp public work Документы Изображения Общедоступные Шаблоны
```

Рис. 7: Создание каталога newdir

В каталоге ~/newdir создаём новый каталог с именем morefun.

```
nvsaakyan@dk8n81 ~ $ cd newdir
nvsaakyan@dk8n81 ~/newdir $ mkdir morefun
nvsaakyan@dk8n81 ~/newdir $ ls
morefun
nvsaakyan@dk8n81 ~/newdir $ mkdir letters memos misk
nvsaakyan@dk8n81 ~/newdir $ ls
letters memos misk morefun
```

Рис. 8: Создание каталога morefun

Создаём одной командой три новых каталога с именами

```
nvsaakyan@dk8n81 ~ $ rm -r newdir
nvsaakyan@dk8n81 ~ $ ls
bin public work Документы Изображения Общедоступные Шаблоны
main.cpp public_html Видео Загрузки Музыка 'Рабочий стол'
```

Рис. 9: Создание каталогов и их удаление

```
User Commands
      ls - list directory contents
      List information about the FILEs (the current directory by default). Sort entries
      alphabetically if none of -cftuvSUX nor --sort is specified.
      Mandatory arguments to long options are mandatory for short options too.
             do not ignore entries starting with .
             do not list implied . and ..
             with -1, print the author of each file
             print C-style escapes for nongraphic characters
             with -1, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see
             SIZE format below
             do not list implied entries ending with "
            with -lt: sort by, and show, ctime (time of last change of file status in-
             formation); with -1: show ctime and sort by name; otherwise: sort by ctime.
             newest first
Manual page ls(1) line 1 (press h for help or q to quit)
```

Рис. 10: Команда man ls

```
use quoting style WORD for entry names: literal, locale, shell, shell-al-
            ways, shell-escape, shell-escape-always, c, escape (overrides QUOTING_STYLE
            environment variable)
            reverse order while sorting
      -R, --recursive
            list subdirectories recursively
            print the allocated size of each file, in blocks
            sort by file size, largest first
            sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v),
            extension (-X), width
            select which timestamp used to display or sort: access time (-u): atime. ac-
            cess, use; metadata change time (-c): ctime, status; modified time (de-
            fault): mtime, modification; birth time: birth, creation;
            with -1. WORD determines which time to show: with --sort=time, sort by WORD
            (newest first)
            time/date format with -1: see TIME_STYLE below
            sort by time, newest first; see --time
            assume tab stops at each COLS instead of 8
            with -lt: sort by, and show, access time: with -l: show access time and sort
            by name; otherwise: sort by access time, newest first
Manual page ls(1) line 134/238 71% (press h for help or q to quit)
```

Рис. 11: -R, –recursive

```
sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v),
             extension (-X), width
             select which timestamp used to display or sort; access time (-u); atime, ac-
             cess, use; metadata change time (-c): ctime, status; modified time (de-
             fault): mtime, modification; birth time: birth, creation;
             with -1, WORD determines which time to show; with --sort=time, sort by WORD
             (newest first)
     --time-style=TIME_STYLE
            time/date format with -1; see TIME_STYLE below
            sort by time, newest first; see --time
             assume tab stops at each COLS instead of 8
             with -lt: sort by, and show, access time; with -l: show access time and sort
             by name: otherwise: sort by access time, newest first
             do not sort: list entries in directory order
             natural sort of (version) numbers within text
             set output width to COLS. 0 means no limit
            list entries by lines instead of by columns
             sort alphabetically by entry extension
             print any security context of each file
      --zero end each output line with NUL, not newline
Manual page ls(1) line 150/238 76% (press h for help or q to quit)
```

Рис. 12: -time-style=TIME STYLE



Рис. 13: Команда man cd

```
User Commands
      pwd - print name of current/working directory
      Print the full filename of the current working directory.
               use PWD from environment, even if it contains symlinks
               avoid all symlinks
      --help display this help and exit
               output version information and exit
       If no option is specified, -P is assumed.
      NOTE: your shell may have its own version of pwd. which usually supersedes the ver-
      sion described here. Please refer to your shell's documentation for details about
       the options it supports.
      Written by Jim Meyering.
      GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/></a>
      Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
Manual page pwd(1) line 1 (press h for help or q to quit)
```

Рис. 14: Команда man pwd

```
User Commands
      mkdir - make directories
      Create the DIRECTORY(ies), if they do not already exist.
      Mandatory arguments to long options are mandatory for short options too.
             set file mode (as in chmod), not a=rwx - umask
             no error if existing, make parent directories as needed, with their file
             modes unaffected by any -m option.
             print a message for each created directory
            set SELinux security context of each created directory to the default type
             like -Z. or if CTX is specified then set the SELinux or SMACK security con-
             text to CTX
      --help display this help and exit
             output version information and exit
      Written by David MacKenzie.
Manual page mkdir(1) line 1 (press h for help or q to quit)
```

Рис. 15: Команда man mkdir

```
User Commands
       rmdir - remove empty directories
       Remove the DIRECTORY(ies), if they are empty.
                ignore each failure to remove a non-empty directory
                remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b' is similar to
                'rmdir a/b a'
                output a diagnostic for every directory processed
       --help display this help and exit
                output version information and exit
       Written by David MacKenzie.
       GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
       Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/>
       Full documentation <a href="https://www.gnu.org/software/coreutils/rmdir">https://www.gnu.org/software/coreutils/rmdir</a>
Manual page rmdir(1) line 1 (press h for help or q to quit)
```

Рис. 16: Команда man rmdir

```
User Commands
     rm - remove files or directories
      This manual page documents the GNU version of rm. rm removes each specified file.
     By default, it does not remove directories.
      If the -I or --interactive=once option is given, and there are more than three
      files or the -r. -R. or --recursive are given, then rm prompts the user for whether
      to proceed with the entire operation. If the response is not affirmative, the en-
      tire command is aborted.
     Otherwise, if a file is unwritable, standard input is a terminal, and the -f or
     --force option is not given, or the -i or --interactive=always option is given, rm
     prompts the user for whether to remove the file. If the response is not affirma-
      tive, the file is skipped.
     Remove (unlink) the FILE(s).
            ignore nonexistent files and arguments, never prompt
            prompt before every removal
            prompt once before removing more than three files, or when removing recur-
            sively; less intrusive than -i, while still giving protection against most
            mistakes
            prompt according to WHEN: never, once (-I), or always (-i): without WHEN.
            prompt always
Manual page rm(1) line 1 (press h for help or q to quit)
```

Рис. 17: Команда man rm

Получим при помощи команды history

```
50 git commit -am "Добавили сайт"
  51 git push
  52 make
  53 git add
  54 git commit -am "feat(main): make course structure"
  55 git push
  56 cd
  57 pwd
  58 cd /tmp
  59 ls
  60 ls -a
  61 ls -F
  62 ls var/spool
  63 ls /var/spool
  64 cd
  65 ls
  66 ls -I
  67 ls -i
  68 ls -1
  69 ls -1
  70 mkdir newdir
  71 ls
  72 cd newdir
  73 mkdir morefun
  74 ls
  75 mkdir letters memos misk
  76 ls
  77 cd
  78 rm -r newdir
  79 ls
  80 man 1s
  81 man cd
  82 man pwd
  83 man mkdir
  84 man rmdir
  85 man rm
  86 history
vsaakyan@dk8n81 ~ $
nvsaakyan@dk8n81 ~ $ ls -F
```

public html@ Howwenty/ Myayra/

Выполним модификацию и исполнение нескольких команд из буфера команд



Модификация

команды №494

Выводы

Мы приобрели практические навыки взаимодействия пользователя с системой по- средством командной строки.