

Отчет по лабораторной работе 6

Анализ файловой системы Linux. Команды для работы с файлами и каталогами

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1 Цель работы

Ознакомление с файловой системой Linux, её структурой, именами и содержанием каталогов. Приобретение практических навыков по применению команд для работы с файлами и каталогами, по управлению процессами (и работами), по проверке использования диска и обслуживанию файловой системы.

2 Задание

- Выполнить все примеры из первой части
- Копирование заданных файлов в каталоги
- Создание директорий и каталогов
- Перемещение файлов
- Переименование файлов
- Изменение прав доступа к файлам
- Просмотр содержимого файлов
- Работа со справкой man

3 Выполнение лабораторной работы

Выполнила примеры из первой части.



```
iaakopyan@dk8n62:~  
iaakopyan@dk8n62 ~ $ touch 321  
iaakopyan@dk8n62 ~ $ ls  
321          asdfg          lab5.asm     public_html  |  
absd         asdfg.asm      laboratory   tmp          |  
absd.asm     asdfg.o       makefile     work         |  
absd.lst     GNUstep      mod1.sage    Видео        |  
absd.map     lab01-1.asm   newdir       Документы    |  
addition.txt lab03-1.asm   public       Загрузки     |
```

Рис. 3.1: команды



```
iaakopyan@dk8n62 ~ $ cat 321  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
  
iaakopyan@dk8n62 ~ $ less 321  
iaakopyan@dk8n62 ~ $
```

Рис. 3.2: команды

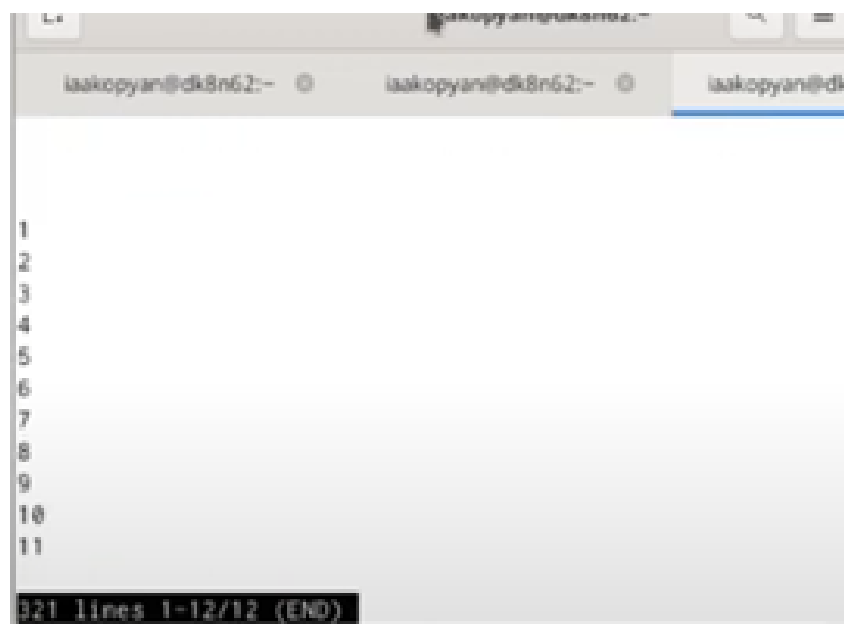


Рис. 3.3: содержимое файла 321

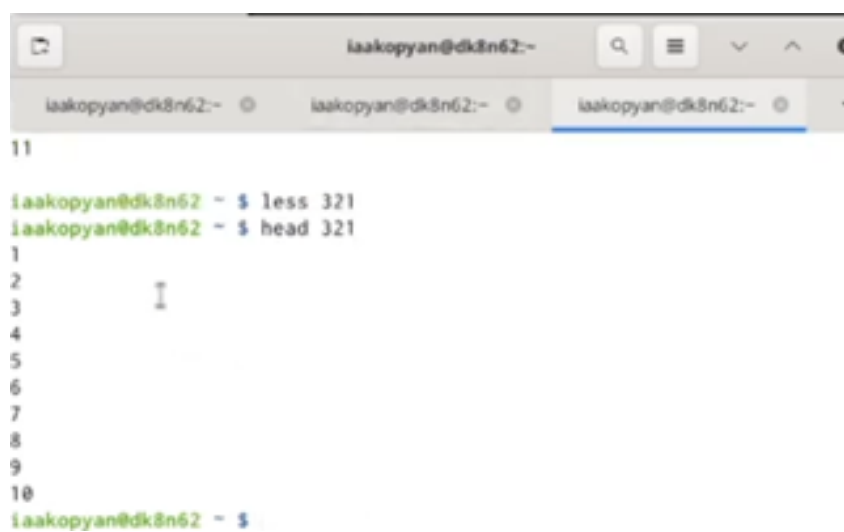


Рис. 3.4: команды

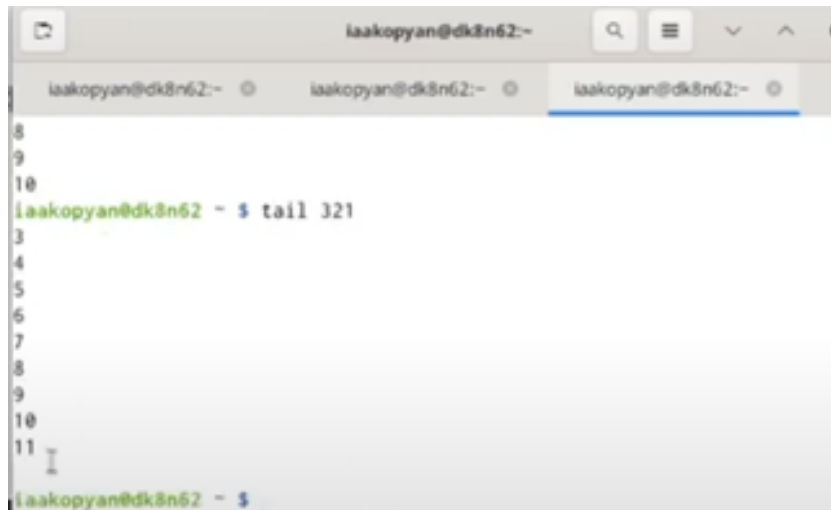


Рис. 3.5: команды

Скопировала файл `/usr/include/sys/io.h` в домашний каталог и назвала его `equipment`.

Создала директорию `ski.places`. Переместила в этот каталог файл `equipment`.

Переименовала файл в `equiplist`.

Создала в домашнем каталоге файл `abc1`, скопировала его в `ski.places`, назвала его `'equiplist2'`.

В каталоге `ski.places` создала каталог `equipment`.

Переместила файлы `equiplist` и `equiplist2` в каталог `equipment`.

Создала каталог `newdir` и переименовала его в каталоге `ski.places` в `'plans'`.

Определила опции команды `chmod`. Создала нужные файлы.

Присвоила файлу `australia` права: `drwxr—r—`

Файлу `play`: `drwx—x—x`

Файлу `my_os`: `-r-xr—r—`

Файлу `feathers`: `-rw-rw-r—`

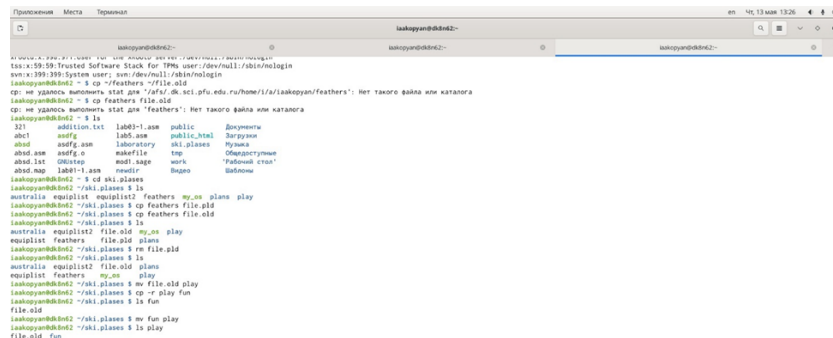


Рис. 3.8: команды

Переместила каталог fun в каталог play и назвала его 'games'.

Лишила владельца файла `feathers` права на чтение. Попыталась просмотреть этот файл, ничего не вышло. Скопировать тоже не получилось. Вернула владельцу право на чтение.

Лишила владельца каталога play права на выполнение. Все же перейти в каталог я смогла. Права вернула.

Прочитала man по командам mount, fsck, mkfs, kill.

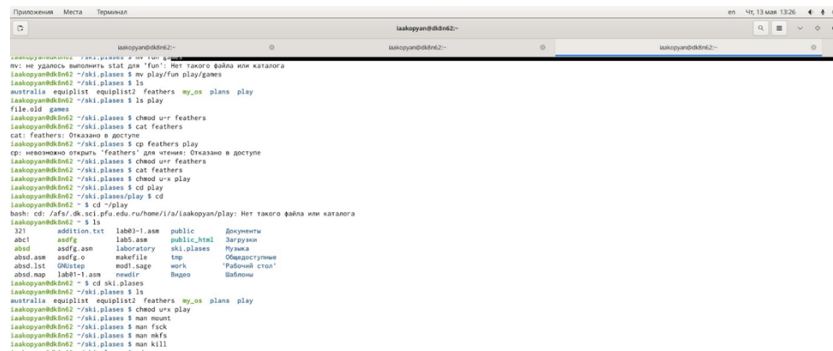


Рис. 3.9: команды

```
lsakopyan@zafgrvdg-HP-Pavilion-17-Notebook-PC: ~
$ man mount
NAME
    mount - mount a filesystem

SYNOPSIS
    mount [-l|-b|-V]
    mount -a [-ffrswv] [-t fstype] [-o options]
    mount [-ffrswv] [-o options] device[dir]
    mount [-ffrswv] [-t fstype] [-o options] device dir

DESCRIPTION
    All files accessible in a Unix system are arranged in one big tree, the file hierarchy, rooted at /. These files can be spread out over several devices. The mount command serves to attach the filesystem found on some device to the big file tree. Conversely, the umount(8) command will detach it again. The filesystem is used to control how data is stored on the device or provided in a virtual way by network or another services.

    The standard form of the mount command is:
        mount -t type device dir

    This tells the kernel to attach the filesystem found on device (which is of type type) at the directory dir. The option -t type is optional. The mount command is usually able to detect a filesystem. The root permissions are necessary to mount a filesystem by default. See section "non-superuser mounts" below for more details. The previous contents (if any) and owner and mode of dir become invisible, and as long as this filesystem remains mounted, the pathname dir refers to the root of the filesystem on device.

    If only the directory or the device is given, for example:
        mount /dir
    then mount looks for a mountpoint (and if not found then for a device) in the /etc/fstab file. It's possible to use the --target or --source options to avoid ambivalent interpretation of the given argument. For example:
        mount --target /mountpoint

    The same filesystem may be mounted more than once, and in some cases (e.g. network filesystems) the same filesystem may be mounted on the same mountpoint more times. The mount command does not implement any policy to control this behavior. All behavior is controlled by the kernel and it is usually specific to the filesystem driver. The exception is --all, in this case already mounted filesystems are ignored (see --all below for more details).

    Listing the mounts
    The listing mode is maintained for backward compatibility only.
    For more robust and customizable output use findmnt(8), especially in your scripts. Note that control characters in the mountpoint name are replaced with '?'.

    The following command lists all mounted filesystems (of type type):
    Manual page mount(8) line 1 (press h for help or q to quit)
```

Рис. 3.10: man mount

```
lsakopyan@zafgrvdg-HP-Pavilion-17-Notebook-PC: ~
$ man fsck
NAME
    fsck - check and repair a Linux filesystem

SYNOPSIS
    fsck [-laortwmp] [-r [fd]] [-C [fd]] [-t fstype] [filesystem...] [--] [fs-specific-options]

DESCRIPTION
    fsck is used to check and optionally repair one or more Linux filesystems. filesystem can be a device name (e.g. /dev/hdc1, /dev/sdb2), a mount point (e.g. /, /usr, /home), or an filesystem label or UUID specifier (e.g. UUID=0000a6f6-00c3-4a43-8008-bfc340577f9d or LABEL=root). Normally, the fsck program will try to handle filesystems on different physical disk drives in parallel to reduce the total amount of time needed to check all of them.

    If no filesystems are specified on the command line, and the -A option is not specified, fsck will default to checking filesystems in /etc/fstab serially. This is equivalent to the -As options.

    The exit code returned by fsck is the sum of the following conditions:
        0      No errors
        1      Filesystem errors corrected
        2      System should be rebooted
        4      Filesystem errors left uncorrected
        8      Operational error
        16     Usage or syntax error
        32     Checking canceled by user request
        128    Shared-library error

    The exit code returned when multiple filesystems are checked is the bit-wise OR of the exit codes for each filesystem that is checked.

    In actuality, fsck is simply a front-end for the various filesystem checkers (fsck.fstype) available under Linux. The filesystem-specific checker is searched for in the PATH environment variable. If the PATH is undefined then fallback to "/sbin".

    Please see the filesystem-specific checker manual pages for further details.

OPTIONS
    -l      Create an exclusive fsck(2) lock file (/run/fsck/uidname.lock) for whole-disk device. This option can be used with one device only (this means that -A and -l are mutually exclusive). This option is recommended when more fsck(8) instances are executed in the same time. The option is ignored when used for multiple devices or for non-rotating disks. fsck does not lock underlying devices when executed to check stacked devices (e.g. MD or DM) - this feature is not implemented yet.

    -r [fd] Report certain statistics for each fsck when it completes. These statistics include the exit status, the maximum run set size (in kilobytes), the elapsed all-clock time and the user and system CPU time used by the fsck run. For example:
        /dev/sdal: status 0, rss 92828, real 4.002884, user 2.677592, sys 0.06186

    GUT front-ends may specify a file descriptor fd, in which case the progress bar information will be sent to that file descriptor in a machine parsable format. For example:
    Manual page fsck(8) line 1 (press h for help or q to quit)
```

Рис. 3.11: man fsck

```
mkfs(8)
NAME
    mkfs - build a Linux filesystem
SYNOPSIS
    mkfs [options] [-t type] [fs-options] device [size]
DESCRIPTION
    This mkfs frontend is deprecated in favor of filesystem specific mkfs.<type> utils.
    mkfs is used to build a Linux filesystem on a device, usually a hard disk partition. The device argument is either the device name (e.g. /dev/hda1, /dev/sdb2), or a regular file that shall contain the filesystem. The size argument is the number of blocks to be used for the filesystem.
    The exit code returned by mkfs is 0 on success and 1 on failure.
    In actuality, mkfs is simply a front-end for the various filesystem builders (mkfs.<type>) available under Linux. The filesystem-specific builder is searched for via your PATH environment setting only. Please see the filesystem-specific builder manual pages for further details.
OPTIONS
    -t, --type type
        Specify the type of filesystem to be built. If not specified, the default filesystem type (currently ext2) is used.
    fs-options
        Filesystem-specific options to be passed to the real filesystem builder.
    -V, --verbose
        Produce verbose output, including all filesystem-specific commands that are executed. Specifying this option more than once inhibits execution of any filesystem-specific commands. This is really only useful for testing.
    -v, --version
        Display version information and exit. (Option -V will display version information only when it is the only parameter, otherwise it will work as --verbose.)
    -h, --help
        Display help text and exit.
BUGS
    All generic options must precede and not be combined with filesystem-specific options. Some filesystem-specific programs do not automatically detect the device size and require the size parameter to be specified.
AUTHORS
    David Engel (david@ods.com)
    Fred R. von Kromen (kallioheikki@l.uu.se)
    Ron Someling (somel@sci.kun.nl)
    The manual page was shamelessly adopted from Remy Card's version for the ext2 filesystem.
Manual page mkfs(8) line 1 (press h for help or q to quit)
```

Рис. 3.12: man mkfs

```
kill(1)
NAME
    kill - send a signal to a process
SYNOPSIS
    kill [options] qpid ...
DESCRIPTION
    The default signal for kill is TERM. Use -l or -L to list available signals. Particularly useful signals include HUP, INT, KILL, STOP, CONT, and 0. Alternate signals may be specified in three ways: -s, -SIGKILL or -KILL. Negative PID values may be used to choose whole process groups; see the PGID column in ps command output. A PID of -1 is special; it indicates all processes except the kill process itself and init.
OPTIONS
    qpid ...
        Send signal to every qpid listed.
    -signal >
    -s <signal>
    --signal <signal>
        Specify the signal to be sent. The signal can be specified by using name or number. The behavior of signals is explained in signal(7) manual page.
    -l, --list <signal>
        List signal names. This option has optional argument, which will convert signal number to signal name, or other way round.
    -L, --table
        List signal names in a nice table.
NOTES
    Your shell (command line interpreter) may have a built-in kill command. You may need to run the command described here as /bin/kill to solve the conflict.
EXAMPLES
    kill -9 -1
        Kill all processes you can kill.
    kill -1 11
        Translate number 11 into a signal name.
    kill -L
        List the available signal choices in a nice table.
    kill 123 543 2341 3453
        Send the default signal, SIGTERM, to all those processes.
SEE ALSO
    kill(2), killall(1), nice(1), pkill(1), renice(1), signal(7), skill(1)
STANDARDS
    POSIX.1-1988, POSIX.1-2001, POSIX.1-2008, POSIX.1-2017, POSIX.1-2019, POSIX.1-2020, POSIX.1-2021, POSIX.1-2022, POSIX.1-2023, POSIX.1-2024, POSIX.1-2025, POSIX.1-2026, POSIX.1-2027, POSIX.1-2028, POSIX.1-2029, POSIX.1-2030, POSIX.1-2031, POSIX.1-2032, POSIX.1-2033, POSIX.1-2034, POSIX.1-2035, POSIX.1-2036, POSIX.1-2037, POSIX.1-2038, POSIX.1-2039, POSIX.1-2040, POSIX.1-2041, POSIX.1-2042, POSIX.1-2043, POSIX.1-2044, POSIX.1-2045, POSIX.1-2046, POSIX.1-2047, POSIX.1-2048, POSIX.1-2049, POSIX.1-2050, POSIX.1-2051, POSIX.1-2052, POSIX.1-2053, POSIX.1-2054, POSIX.1-2055, POSIX.1-2056, POSIX.1-2057, POSIX.1-2058, POSIX.1-2059, POSIX.1-2060, POSIX.1-2061, POSIX.1-2062, POSIX.1-2063, POSIX.1-2064, POSIX.1-2065, POSIX.1-2066, POSIX.1-2067, POSIX.1-2068, POSIX.1-2069, POSIX.1-2070, POSIX.1-2071, POSIX.1-2072, POSIX.1-2073, POSIX.1-2074, POSIX.1-2075, POSIX.1-2076, POSIX.1-2077, POSIX.1-2078, POSIX.1-2079, POSIX.1-2080, POSIX.1-2081, POSIX.1-2082, POSIX.1-2083, POSIX.1-2084, POSIX.1-2085, POSIX.1-2086, POSIX.1-2087, POSIX.1-2088, POSIX.1-2089, POSIX.1-2090, POSIX.1-2091, POSIX.1-2092, POSIX.1-2093, POSIX.1-2094, POSIX.1-2095, POSIX.1-2096, POSIX.1-2097, POSIX.1-2098, POSIX.1-2099, POSIX.1-2100, POSIX.1-2101, POSIX.1-2102, POSIX.1-2103, POSIX.1-2104, POSIX.1-2105, POSIX.1-2106, POSIX.1-2107, POSIX.1-2108, POSIX.1-2109, POSIX.1-2110, POSIX.1-2111, POSIX.1-2112, POSIX.1-2113, POSIX.1-2114, POSIX.1-2115, POSIX.1-2116, POSIX.1-2117, POSIX.1-2118, POSIX.1-2119, POSIX.1-2120, POSIX.1-2121, POSIX.1-2122, POSIX.1-2123, POSIX.1-2124, POSIX.1-2125, POSIX.1-2126, POSIX.1-2127, POSIX.1-2128, POSIX.1-2129, POSIX.1-2130, POSIX.1-2131, POSIX.1-2132, POSIX.1-2133, POSIX.1-2134, POSIX.1-2135, POSIX.1-2136, POSIX.1-2137, POSIX.1-2138, POSIX.1-2139, POSIX.1-2140, POSIX.1-2141, POSIX.1-2142, POSIX.1-2143, POSIX.1-2144, POSIX.1-2145, POSIX.1-2146, POSIX.1-2147, POSIX.1-2148, POSIX.1-2149, POSIX.1-2150, POSIX.1-2151, POSIX.1-2152, POSIX.1-2153, POSIX.1-2154, POSIX.1-2155, POSIX.1-2156, POSIX.1-2157, POSIX.1-2158, POSIX.1-2159, POSIX.1-2160, POSIX.1-2161, POSIX.1-2162, POSIX.1-2163, POSIX.1-2164, POSIX.1-2165, POSIX.1-2166, POSIX.1-2167, POSIX.1-2168, POSIX.1-2169, POSIX.1-2170, POSIX.1-2171, POSIX.1-2172, POSIX.1-2173, POSIX.1-2174, POSIX.1-2175, POSIX.1-2176, POSIX.1-2177, POSIX.1-2178, POSIX.1-2179, POSIX.1-2180, POSIX.1-2181, POSIX.1-2182, POSIX.1-2183, POSIX.1-2184, POSIX.1-2185, POSIX.1-2186, POSIX.1-2187, POSIX.1-2188, POSIX.1-2189, POSIX.1-2190, POSIX.1-2191, POSIX.1-2192, POSIX.1-2193, POSIX.1-2194, POSIX.1-2195, POSIX.1-2196, POSIX.1-2197, POSIX.1-2198, POSIX.1-2199, POSIX.1-2200, POSIX.1-2201, POSIX.1-2202, POSIX.1-2203, POSIX.1-2204, POSIX.1-2205, POSIX.1-2206, POSIX.1-2207, POSIX.1-2208, POSIX.1-2209, POSIX.1-2210, POSIX.1-2211, POSIX.1-2212, POSIX.1-2213, POSIX.1-2214, POSIX.1-2215, POSIX.1-2216, POSIX.1-2217, POSIX.1-2218, POSIX.1-2219, POSIX.1-2220, POSIX.1-2221, POSIX.1-2222, POSIX.1-2223, POSIX.1-2224, POSIX.1-2225, POSIX.1-2226, POSIX.1-2227, POSIX.1-2228, POSIX.1-2229, POSIX.1-2230, POSIX.1-2231, POSIX.1-2232, POSIX.1-2233, POSIX.1-2234, POSIX.1-2235, POSIX.1-2236, POSIX.1-2237, POSIX.1-2238, POSIX.1-2239, POSIX.1-2240, POSIX.1-2241, POSIX.1-2242, POSIX.1-2243, POSIX.1-2244, POSIX.1-2245, POSIX.1-2246, POSIX.1-2247, POSIX.1-2248, POSIX.1-2249, POSIX.1-2250, POSIX.1-2251, POSIX.1-2252, POSIX.1-2253, POSIX.1-2254, POSIX.1-2255, POSIX.1-2256, POSIX.1-2257, POSIX.1-2258, POSIX.1-2259, POSIX.1-2260, POSIX.1-2261, POSIX.1-2262, POSIX.1-2263, POSIX.1-2264, POSIX.1-2265, POSIX.1-2266, POSIX.1-2267, POSIX.1-2268, POSIX.1-2269, POSIX.1-2270, POSIX.1-2271, POSIX.1-2272, POSIX.1-2273, POSIX.1-2274, POSIX.1-2275, POSIX.1-2276, POSIX.1-2277, POSIX.1-2278, POSIX.1-2279, POSIX.1-2280, POSIX.1-2281, POSIX.1-2282, POSIX.1-2283, POSIX.1-2284, POSIX.1-2285, POSIX.1-2286, POSIX.1-2287, POSIX.1-2288, POSIX.1-2289, POSIX.1-2290, POSIX.1-2291, POSIX.1-2292, POSIX.1-2293, POSIX.1-2294, POSIX.1-2295, POSIX.1-2296, POSIX.1-2297, POSIX.1-2298, 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```

4 Вывод

Я удачно ознакомилась с файловой системой Linux, её структурой, именами и содержанием каталогов.

Приобрела практические навыки по применению команд для работы с файлами и каталогами, по управлению процессами (и работами), по проверке использования диска и обслуживанию файловой системы.