

Lesson 11: Work with users

Congratulations

After this section you are familiar with basic operations related to users.

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Editor Tab 1 +

```
ubuntu:~$ /etc/group
bash: /etc/group: Permission denied
ubuntu:~$ /etc/passwd
bash: /etc/passwd: Permission denied
ubuntu:~$ id mysterioususer
id: 'mysterioususer': no such user
ubuntu:~$ Group Identifier
Group: command not found
ubuntu:~$ The password is not set
Command 'The' not found, did you mean:
  command 'he' from deb node-he (1.2.0-4)
  command 'the' from deb the (3.3~rc1-3.2)
Try: apt install <deb name>
ubuntu:~$ Bash script
Command 'Bash' not found, did you mean:
  command 'dash' from deb dash (0.5.12-6ubuntu1)
  command 'wash' from deb reaver (1.6.6-2)
  command 'ash' from deb ash (0.5.12-6ubuntu1)
  command 'yash' from deb yash (2.55-2)
  command 'bash' from deb bash (5.2.21-2ubuntu1)
  command 'kash' from deb kanif (1.2.2-4)
  command 'sash' from deb sash (3.8-5)
  command 'mash' from deb mash (2.3+dfsg-6)
Try: apt install <deb name>
ubuntu:~$ -s
-s: command not found
ubuntu:~$ passwd
New password: 
```

Lesson 10: Create aliases

Congratulations

You know now how to create aliases.

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Editor Tab1 +

```
ubuntu:~$ ls -al
total 36
drwx----- 4 root root 4096 Jul 19 13:02 .
drwxr-xr-x 22 root root 4096 Jul 19 13:02 ..
-rw----- 1 root root  10 Feb 10 22:06 .bash_history
-rw-r--r-- 1 root root 3194 Jul 19 13:02 .bashrc
-rw-r--r-- 1 root root 161 Apr 22 2024 .profile
drwx----- 2 root root 4096 Jul 19 13:01 .ssh
drwxr-xr-x 4 root root 4096 Jul 25 01:52 .theia
-rw-r--r-- 1 root root 109 Jul 19 13:02 .vimrc
-rw-r--r-- 1 root root 165 Jul 19 13:02 .wget-hsts
lrwxrwxrwx 1 root root  1 Jul 19 13:02 filesystem -> /
ubuntu:~$ ll
total 36
drwx----- 4 root root 4096 Jul 19 13:02 ./
drwxr-xr-x 22 root root 4096 Jul 19 13:02 ../
-rw----- 1 root root  10 Feb 10 22:06 .bash_history
-rw-r--r-- 1 root root 3194 Jul 19 13:02 .bashrc
-rw-r--r-- 1 root root 161 Apr 22 2024 .profile
drwx----- 2 root root 4096 Jul 19 13:01 .ssh/
drwxr-xr-x 4 root root 4096 Jul 25 01:52 .theia/
-rw-r--r-- 1 root root 109 Jul 19 13:02 .vimrc
-rw-r--r-- 1 root root 165 Jul 19 13:02 .wget-hsts
lrwxrwxrwx 1 root root  1 Jul 19 13:02 filesystem -> //
ubuntu:~$ .bashrc
.bashrc: command not found
ubuntu:~$ grep "alias " .bashrc
alias ls='ls --color=auto'
#alias dir='dir --color=auto'
#alias vdir='vdir --color=auto'
alias grep='grep --color=auto'
alias fgrep='fgrep --color=auto'
alias egrep='egrep --color=auto'
alias ll='ls -alF'
alias la='ls -A'
alias l='ls -CF'
ubuntu:~$ echo "alias lh='ls -alh'" >> .bashrc
ubuntu:~$ echo "alias lh='ls -alh'" >> .bashrc
ubuntu:~$
```

<https://killercoda.com/pawelpiwoz/course/linuxFundamentals/lf-09-ps>

K L L K C O D A



PLUS

Lesson 9: The ps command

Congratulations

You are ready to use `ps` in your daily work!

BACK

RESTART

SCENARIOS




FEEDBACK

Editor Tab 1 +

```
ubuntu:~$ grep ps
grep
^C
ubuntu:~$ grep
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
ubuntu:~$ ps
  PID TTY          TIME CMD
 1799 pts/0    00:00:00 bash
 2789 pts/0    00:00:00 ps
ubuntu:~$
```

<https://killercoda.com/pawelpiwoz/course/linuxFundamentals/lf-06-file>

K L L K C O D A



PLUS

Lesson 6: Reading the file

Congratulations

After this short lab you know how to read the files!

BACK

RESTART

SCENARIOS

FEEDBACK

Editor Tab 1 Tab 2 +

```
ubuntu:~$ Option 1
Option: command not found
ubuntu:~$ less
Missing filename ("less --help" for help)
ubuntu:~$ head -n5 file
head: cannot open 'file' for reading: No such file or directory
ubuntu:~$
```

Lesson 5: Pipes

4. Quiz

Quiz

Q1: The sign `|` is used for pipe or redirection?

► Answer

Q2: Which example represents the situation, when `Command2` operates on output from `Command1`?

1. `Command2 | Command1`
2. `Command1 || Command2`
3. `Command1 | Command2`
4. `Command1 | Command3 | Command2`

► Answer

Q3: I have a file where each line contains one word. I want to know how many unique words I have in file. What command will do the job?

1. `cat file | sort | wc -l`
2. `cat file | sort | wc -l | uniq`
3. `cat file | uniq | sort | wc -l`
4. `cat file | wc -l | uniq | sort`
5. `cat file | sort | uniq | wc -l`

► Answer

Q4: What sign I have to use in order to *append* the file when redirection is used?

1. `>>`
2. `>`

Editor Tab1

```
ubuntu:~$ pipe
Command 'pipe' not found, did you mean:
  command 'pipes' from deb pipes-sh (1.3.0-2)
  command 'piper' from deb piper (0.7-1)
  command 'ipe' from deb ipe (7.2.28-2)
  command 'spipe' from deb spiped (1.6.2-3)
  command 'dpipe' from deb vdeplug (4.0.1-5build1)
  command 'pipx' from deb pipx (1.4.0-1)
  command 'cpipe' from deb cpipe (3.0.1-2.1)
  command 'pip3' from deb python3-pip (24.0+dfsg-1ubuntu1.1)
  command 'pip' from deb python3-pip (24.0+dfsg-1ubuntu1.1)
  command 'vipe' from deb moreutils (0.67-1)
  command 'wipe' from deb wipe (0.24-9)
Try: apt install <deb name>
ubuntu:~$ Command | Command2
Command2: command not found
Command: command not found
ubuntu:~$ cat file | sort | uniq | wc -l
> >>
bash: syntax error near unexpected token `newline'
ubuntu:~$ >>
bash: syntax error near unexpected token `newline'
ubuntu:~$ wc -l < numbers.txt
10000
ubuntu:~$ count number of lines in numbers.txt file
```

Lesson 4: Create and delete files

Congratulations

This lesson was very short. There is nothing magical in create or delete files. Of course, `touch`, or `vim` are not only way to create files.

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```
Editor  Tab 1 +
rm: cannot remove 'testdir/mytest0954': No such file or directory
rm: cannot remove 'testdir/mytest0955': No such file or directory
rm: cannot remove 'testdir/mytest0956': No such file or directory
rm: cannot remove 'testdir/mytest0957': No such file or directory
rm: cannot remove 'testdir/mytest0958': No such file or directory
rm: cannot remove 'testdir/mytest0959': No such file or directory
rm: cannot remove 'testdir/mytest0960': No such file or directory
rm: cannot remove 'testdir/mytest0961': No such file or directory
rm: cannot remove 'testdir/mytest0962': No such file or directory
rm: cannot remove 'testdir/mytest0963': No such file or directory
rm: cannot remove 'testdir/mytest0964': No such file or directory
rm: cannot remove 'testdir/mytest0965': No such file or directory
rm: cannot remove 'testdir/mytest0966': No such file or directory
rm: cannot remove 'testdir/mytest0967': No such file or directory
rm: cannot remove 'testdir/mytest0968': No such file or directory
rm: cannot remove 'testdir/mytest0969': No such file or directory
rm: cannot remove 'testdir/mytest0970': No such file or directory
rm: cannot remove 'testdir/mytest0971': No such file or directory
rm: cannot remove 'testdir/mytest0972': No such file or directory
rm: cannot remove 'testdir/mytest0973': No such file or directory
rm: cannot remove 'testdir/mytest0974': No such file or directory
rm: cannot remove 'testdir/mytest0975': No such file or directory
rm: cannot remove 'testdir/mytest0976': No such file or directory
rm: cannot remove 'testdir/mytest0977': No such file or directory
rm: cannot remove 'testdir/mytest0978': No such file or directory
rm: cannot remove 'testdir/mytest0979': No such file or directory
rm: cannot remove 'testdir/mytest0980': No such file or directory
rm: cannot remove 'testdir/mytest0981': No such file or directory
rm: cannot remove 'testdir/mytest0982': No such file or directory
rm: cannot remove 'testdir/mytest0983': No such file or directory
rm: cannot remove 'testdir/mytest0984': No such file or directory
rm: cannot remove 'testdir/mytest0985': No such file or directory
rm: cannot remove 'testdir/mytest0986': No such file or directory
rm: cannot remove 'testdir/mytest0987': No such file or directory
rm: cannot remove 'testdir/mytest0988': No such file or directory
rm: cannot remove 'testdir/mytest0989': No such file or directory
rm: cannot remove 'testdir/mytest0990': No such file or directory
rm: cannot remove 'testdir/mytest0991': No such file or directory
rm: cannot remove 'testdir/mytest0992': No such file or directory
rm: cannot remove 'testdir/mytest0993': No such file or directory
rm: cannot remove 'testdir/mytest0994': No such file or directory
rm: cannot remove 'testdir/mytest0995': No such file or directory
rm: cannot remove 'testdir/mytest0996': No such file or directory
rm: cannot remove 'testdir/mytest0997': No such file or directory
rm: cannot remove 'testdir/mytest0998': No such file or directory
rm: cannot remove 'testdir/mytest0999': No such file or directory
ubuntu:~$ rm -rf testdir
ubuntu:~$ vim mynewfile
ubuntu:~$ ls -l mynewfile
-rw-r--r-- 1 root root 31 Jul 16 03:48 mynewfile
ubuntu:~$
```

← ↻ <https://killercoda.com/pawelpiwoz/course/linuxFundamentals/lf-03-directories>

K L L R C O D A    PLUS

Lesson 3: Work with directories

Congratulations

Directories don't have any mystery for you now!

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```
Editor  Tab 1 +
ubuntu:~$ pwd
/root
ubuntu:~$ cd home/user1
bash: cd: home/user1: No such file or directory
ubuntu:~$ cd home/user2
bash: cd: home/user2: No such file or directory
ubuntu:~$ cd/home/user2
bash: cd/home/user2: No such file or directory
ubuntu:~$ ~
bash: /root: Is a directory
ubuntu:~$ cd home
bash: cd: home: No such file or directory
ubuntu:~$ cd $HOME/app/ests
bash: cd: /root/app/ests: No such file or directory
ubuntu:~$ cd $HOME/app/tests
bash: cd: /root/app/tests: No such file or directory
ubuntu:~$ mkdir hello{0..100}
ubuntu:~$ rmdir/directory/*
bash: rmdir/directory/*: No such file or directory
ubuntu:~$ rmdir /directory/*
rmdir: failed to remove '/directory/*': No such file or directory
ubuntu:~$ rm -rf somedir
ubuntu:~$
```


Lesson 2: Your best friend - man

Congratulations

Now you can easily use `man`!

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Editor Tab 1 +

```
ubuntu:~$ man man
man: can't resolve man7/groff_man.7
ubuntu:~$ man ls
ubuntu:~$ man 8 ls
No manual entry for ls in section 8
ubuntu:~$ man -f ls
ls: nothing appropriate.
ubuntu:~$ ls
filesystem
ubuntu:~$ intro
intro: command not found
ubuntu:~$ man -f intro
intro: nothing appropriate.
ubuntu:~$ man intro
ubuntu:~$ man 1 intro
ubuntu:~$ man 8 intro
ubuntu:~$ whatis ls
ls: nothing appropriate.
ubuntu:~$ man -f ls
ls: nothing appropriate.
ubuntu:~$ man -k ls
ls: nothing appropriate.
ubuntu:~$ man -w ls
/usr/share/man/man1/ls.1.gz
ubuntu:~$
```

Lesson 1: list files

Congratulations

You've completed the `list files`, your first Linux scenario!

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► Answer

Q4: UID represents

1. Process identifier
2. User identifier
3. Group identifier
4. Internal system identifier

► Answer

Q5: I want to list the parent directory files. What I need to add to my `ls` command?

► Answer

Q6: I have my `ls -lt` command. What argument I need to add in order to see the list ordered by modification of the content of the files?

► Answer

Q7: Provide the full command for long format and human readable size.

► Answer

Q8: Provide the full command (not `-m`) for short list with commas

► Answer

Q9: List files in short format, one file per line, with quotes.

▼ Answer

`ls -lQ`

Editor Tab1

```
ubuntu:~$ ls -l
total 160
-rw-r--r-- 1 root    root      141266 Jul 16 02:34 File-01.txt
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-01
-rw-r--r-- 1 root    root       18 Jul 16 02:34 file-01.txt
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-02
lrwxrwxrwx 1 root    root         1 Jun 24 13:25 filesystem -> /
-rw-r--r-- 1 testuser testuser 18 Jul 16 02:34 notmyfile
-rw-r--r-- 1 otheruser otheruser 19 Jul 16 02:34 notmyfile2
drwxr-xr-x 2 root    root      4096 Jul 16 02:34 testDir
drwxr-xr-x 3 root    root      4096 Jul 16 02:34 testdir
ubuntu:~$ S
S: command not found
ubuntu:~$ ls --color
File-01.txt file-01 file-01.txt file-02 filesystem notmyfile notmyfile2 testDir testdir
ubuntu:~$ User Identifier
User: command not found
ubuntu:~$ ls -ltu
total 160
drwxr-xr-x 2 root    root      4096 Jul 16 02:34 testDir
drwxr-xr-x 3 root    root      4096 Jul 16 02:34 testdir
-rw-r--r-- 1 otheruser otheruser 19 Jul 16 02:34 notmyfile2
-rw-r--r-- 1 testuser testuser 18 Jul 16 02:34 notmyfile
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-02
-rw-r--r-- 1 root    root      141266 Jul 16 02:34 File-01.txt
-rw-r--r-- 1 root    root       18 Jul 16 02:34 file-01.txt
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-01
lrwxrwxrwx 1 root    root         1 Jul 16 01:53 filesystem -> /
ubuntu:~$ ls -lh
total 160K
-rw-r--r-- 1 root    root      138K Jul 16 02:34 File-01.txt
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-01
-rw-r--r-- 1 root    root       18 Jul 16 02:34 file-01.txt
-rw-r--r-- 1 root    root         0 Jul 16 02:34 file-02
lrwxrwxrwx 1 root    root         1 Jun 24 13:25 filesystem -> /
-rw-r--r-- 1 testuser testuser 18 Jul 16 02:34 notmyfile
-rw-r--r-- 1 otheruser otheruser 19 Jul 16 02:34 notmyfile2
drwxr-xr-x 2 root    root       4.0K Jul 16 02:34 testDir
drwxr-xr-x 3 root    root       4.0K Jul 16 02:34 testdir
ubuntu:~$ ls --format=commas
ls: unrecognized option '--format=commas'
Try 'ls --help' for more information.
ubuntu:~$ ls -lQ
total 160
-rw-r--r-- 1 root    root      141266 Jul 16 02:34 "File-01.txt"
-rw-r--r-- 1 root    root         0 Jul 16 02:34 "file-01"
-rw-r--r-- 1 root    root       18 Jul 16 02:34 "file-01.txt"
-rw-r--r-- 1 root    root         0 Jul 16 02:34 "file-02"
lrwxrwxrwx 1 root    root         1 Jun 24 13:25 "filesystem" -> "/"
-rw-r--r-- 1 testuser testuser 18 Jul 16 02:34 "notmyfile"
-rw-r--r-- 1 otheruser otheruser 19 Jul 16 02:34 "notmyfile2"
```

BACK

NEXT

Lesson 1: list files | Pawel Piwosz

killercode.com/pawelpiwosz/course/linuxFundamentals/lf-01-ls

CertificationsProjectsTheo WAF class linksInterview PrepLinkedInKillercode Interactiv...AWS Management...Personal Azure acco...Google

K L L K C O D A PLUS

Lesson 1: list files

8. Check your knowledge!

Check your knowledge!

Q1: What is the whole command to show long formatted list of the files in directory?

► Answer

Q2: The argument for sort files?

► Answer

Q3: I want to pass `color` argument. What I need to use?

-
-
- .

► Answer

Q4: UID represents

- Process identifier
- User identifier
- Group identifier

Editor Tab 1
ubuntu:~\$ echo "ls -l" >> Q1.txt
ubuntu:~\$ echo "s" >> Q2.txt
ubuntu:~\$ cat Q1.txt
ls -l
ubuntu:~\$ cat Q2.tx

Windows Taskbar

Type here to search

Taskbar Icons