Linux exercise 5-Editors and utilities

- 1. Create the tar archive from dir2 directory created in previous exercise (Linux exercise
 - 4 Basic commands) and compress it using gzip.

```
jean@jean:~/h1$ sudo tar -cf dir_2.tar dir_2
[sudo] password for jean:
jean@jean:~/h1$ ls
dir_1 dir_2 dir_2.tar dir_3
jean@jean:~/h1$ gzip dir_2.tar
gzip: dir_2.tar.gz: Permission denied
jean@jean:~/h1$ sudo gzip dir_2.tar
jean@jean:~/h1$ ls
dir_1 dir_2 dir_2.tar.gz dir_3
jean@jean:~/h1$ _
```

2. Open one of the files you have created earlier with text editor of your choice. Add text to the file and save it with different name.

3. Open some file using less command. Find out how search feature works in less command.

```
jean@jean:~$ ls
extracted_apache funetpage.html h1 httpd−2.4.46.tar.gz jean.txt jean_renamed.txt
jean@jean:~$ less funetpage.html_
```

4. Download and extract the Apache web server package: Apache web server. (I couldn't

see the provided link for apache download so I downloaded from another source.)

```
jean@jean: ~/extracted_apache

jean@jean:~$ ls
h1 httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
jean@jean:~$ tar -xf httpd-2.4.46.tar.gz
jean@jean:~$ ls
h1 httpd-2.4.46 httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
jean@jean:~$ my httpd-2.4.46 extracted_apache
jean@jean:~$ ls
extracted_apache h1 httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
```

- 5. Use Vim editor in this task. Open CHANGES file from extracted Apache web server directory and add this line to the beginning of the file:
 - 1. ===== This file has been edited in current_date ======
 - 2. Save the file and print first 18 lines of the file to the command line.

```
iean@iean: ~/extracted apache
      ean:~$ 1s
  httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
ean@jean:~$ tar -xf httpd-2.4.46.tar.gz
ean@jean:~$ ls
1 httpd-2.4.46 httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
ean@jean:~$ mv httpd-2.4.46 extracted_apache
 ean@jean:~$ ls
extracted_apache h1 httpd-2.4.46.tar.gz jean.txt jean_renamed.txt
ean@jean:~$ cd extracted_apache/
ean@jean:~/extracted_apache$ ls
ABOUT_APACHE
                CMakeLists.txt Makefile.win
                                                  ROADMAP
                                                                                  httpd.dep
                                                                                                 libhttpd.dsp support
Apache-apr2.dsw INSTALL
                                NOTTCE
                                                  VERSIONING
                                                                   config.layout httpd.dsp
                                                                                                libhttpd.mak test
                InstallBin.dsp
Apache.dsw
                                NWGNUmakefile
                                                  acinclude.m4
                                                                                  httpd.mak
.
BuildAll.dsp
                LAYOUT
                                README
                                                  ap.d
                                                                   configure.in
                                                                                  httpd.spec
BuildBin.dsp
                LICENSE
                                README.cmake
                                                  apache probes.d
                Makefile.in
                                README.platforms
                                                                                  libhttpd.dep srclib
CHANGES
                                                                   emacs-style
ean@jean:~/extracted_apache$ vim CHANGES
```

```
jean@jean:~/extracted_apache$ ls
ABOUT_APACHE CHANGES
                                                                      NWGNUmakefile
                                                                                                 VERSIONING
                                                                     README
README.cmake
README.platforms
ROADMAP
                                                                                                 acinclude.m4
                                                                                                                          config.layout
                                                                                                                                                 httpd.dep
                                                                                                                                                                     libhttpd.dep
libhttpd.dsp
Apache.dsw
BuildAll.dsp
                                                Makefile.in
Makefile.win
                                                                                                                                                 httpd.dsp
httpd.mak
                        CMakeLists.txt
                                                                                                 ap.d
BuildAll.dsp INSTALL Makefile.win
BuildBin.dsp InstallBin.dsp NOTICE
jean@jean:~/extracted_apache$ head -18 CHANGES
                                                                                                apache_probes.d
                                                                                                                                                                     libhttpd.mak
                                                                                                                          configure.in
-*- coding: utf-8 -*-
=====This file has been edited in 18.06.2021=====
hanges with Apache 2.4.46
*) mod_proxy_fcgi: Fix build warnings for Windows platform
[Eric Covener, Christophe Jaillet]
 nanges with Apache 2.4.45
  hanges with Apache 2.4.44

    *) mod_proxy_uwsgi: Error out on HTTP header larger than 16K (hard
protocol limit). [Yann Ylavic]

 an@jean:~/extracted_apache$ _
```

6. Open Kernel log file (/var/log/kern.log) using tail command so that new log lines are listed in real-time.

```
Jean@jean: "$ tail /var/log/kern.log
Jun 18 18:01:48 jean kernel: [ 23.057831] audit: type=1400 audit(1624039304.440:4): apparmor="STATUS" operation="profile_load" profile="unconfined" name="man_groff" pide534 comme":apparmorparser"
Jun 18 18:01:48 jean kernel: [ 23.074972] audit: type=1400 audit(1624039304.456:5): apparmor="STATUS" operation="profile_load" profile="unconfined" name="Musr/lib/NetworkManager/mo-dhoc-helpen" pid=555 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.074974] audit: type=1400 audit(1624039304.456:6): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/NetworkManager/mo-dhoc-helpen" pid=555 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.074975] audit: type=1400 audit(1624039304.456:7): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/connman/scripts/dhclient-script" pid=535 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.074976] audit: type=1400 audit(1624039304.456:8): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/snapd/snap-confine" pid=535 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.074976] audit: type=1400 audit(1624039304.456:8): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/snapd/snap-confine" pid=536 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.08244] audit: type=1400 audit(1624039304.464:9): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/snapd/snap-confine" pid=536 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.082443] audit: type=1400 audit(1624039304.464:10): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/snapd/snap-confine/mount-namespace-capture-helper" pid=536 comme"apparmor_parser"
Jun 18 18:01:48 jean kernel: [ 23.091248] audit: type=1400 audit(1624039304.472:11): apparmor="STATUS" operation="profile_load" profile="unconfined" name="/usr/lib/snapd/snap-confine/mount-namespace-capture-helper" pid=536 comme"apparmor_parser"
Jun
```

7. Examine curl program parameter through help feature. Download Funet network's wiki page https://fi.wikipedia.org/wiki/Funet and save the content of the page to the file (Write to file) called funetpage.html. Add screenshot presenting part of this file's content.

```
jean@jean:~$ ls
                                           jean.txt jean_renamed.txt
iean@jean:~$ curl https://fi.wikipedia.org/wiki/Funet > funetpage.html
                                Average Speed
 % Total
            % Received % Xferd
                                                 Time
                                                                         Current
                                                          Time
                                                                   Time
                                 Dload Upload
                                                 Total
                                                         Spent
                                                                   Left
                                                                         Speed
100 36229 100 36229
                                  152k
jean@jean:~$ ls
                 funetpage.html
                                                           jean.txt jean_renamed.txt
iean@jean:~$ cat funetpage.html
```

```
div didn't large 'mball' classe' western-eman-heading')

Olso classe' vestern-eman-content'
Olso classe cla
```

- 8. In this task curl command will be used to connect to remote servers:
 - a) README file is located in the server http://ftp.funet.fi. How do you open this file using curl command so that you can view it page by page (hint: utilize other commands with curl)?
 - b) How do you list the content of remote server's folder ftp://speedtest.tele2.net/? What files are included in listing?

```
jean@jean:~$ curl http://ftp.funet.fi. | more_
```

```
jean@jean:~$ curl -ls ftp://speedtest.tele2.net/
1000GB.zip
100KB.zip
100KB.zip
100MB.zip
10MB.zip
10MB.zip
16B.zip
1KB.zip
200MB.zip
200MB.zip
200MB.zip
20MB.zip
50MB.zip
```