

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.

```
tar --create --gzip --file dir2.tar.gz dir2
```

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.

```
vim File2.txt
```

```
Text(edit): "This file is opened with VIM.  
yey. huhhhhhrah. banzai. kiitos."
```

```
Esc:w FileInVim.txt (Enter)
```

```
:q! (Enter)
```

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

```
less FileInVim.txt
```

```
/(search text)
```

4. Download and extract the Apache web server package: [Apache web server](#).

Download: `wget http://student.labranet.jamk.fi/~hantt/apache/httpd-2.4.41.tar.gz`

Extract: `tar -xf httpd-2.4.41.tar.gz`

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:

- ===== This file has been edited in *current_date* =====
- Save the file and print first 18 lines of the file to the command line.

```
cd httpd-2.4.41  
vim CHANGES  
head -18 CHANGES
```

```
menom@ab0208:~/home/user/h1/dir2/httpd-2.4.41$ head -18 CHANGES
===== This file has been edited in 10/6/2021 =====
          *- coding: utf-8 -*-
Changes with Apache 2.4.41

*) mod_proxy_balancer: Improve balancer-manager protection against
XSS/XSRF attacks from trusted users. [Joe Orton,
Niels Heinen <heinenn google.com>]

*) mod_session: Introduce SessionExpiryUpdateInterval which allows to
configure the session/cookie expiry's update interval. PR 57300.
[Paul Spangler <paul.spangler ni.com>]

*) modules/filters: Fix broken compilation when using old GCC (<4.2.1)
PR 63633. [Rainer Jung, Joe Orton]

*) mod_ssl: Fix startup failure in 2.4.40 with SSLCertificateChainFile
configured for a domain managed by mod_md. [Stefan Eissing]

Changes with Apache 2.4.40
menom@ab0208:~/home/user/h1/dir2/httpd-2.4.41$
```

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

```
$ tail -F /var/log/kern.log
```

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.

```
<!DOCTYPE html>
<html class="client-nojs" lang="fi" dir="ltr">
<head>
<meta charset="UTF-8"/>
<title>Funet - Wikipedia</title>
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":!1
,"wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],"wgDefaultDateFormat":"fi normal","wgMonthNames":["","tammikuu","helmikuu","maaliskuu
","huhtikuu","toukokuu","kesäkuu","heinäkuu","elokuu","syyskuu","lokakuu","marras
kuu","joulukuu"],"wgRequestId":"095b984d-5430-4df1-a9db-1e1527c5f289","wgCSPNonce
":!1,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":!1,"wgNamespaceNumber
":0,"wgPageName":"Funet","wgTitle":"Funet","wgCurRevisionId":19676556,"wgRevision
Id":19676556,"wgArticleId":340035,"wgIsArticle":!0,"wgIsRedirect":!1,"wgAction":"
view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["Tietotekniikkatyngä
t","CSC","Internet","Suomen koulutus"],"wgPageContentLanguage":"fi","wgPageConten
tModel":"wikitext","wgRelevantPageName":"Funet","wgRelevantArticleId":340035,"wgI
sProbablyEditable":!0,"wgRelevantPageIsProbablyEditable":!0,"wgRestrictionEdit":[
],
```

8. In this task curl command will be used to connect to remote servers:
- 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)?
 - How do you list the content of remote server's folder <ftp://speedtest.tele2.net/>? What files are included in listing?