

## Exercise for the topic: Command Line (shortened) (20 points)

1. Please investigate how many and which editors are available in the Debian Lenny distribution:

use the lenny-allpackages.txt file (listed bei the Course material in the topic Linux) and select the lines in which the word 'editor' is listed ( e.g. use the grep command). Save this as a file: linux-editors-all.txt in the exercises/comline/ directory in your CBWE lecture home directory.

Create a table, where the following types of editors are mandatory listed: text, sound, mpg, mp3, vi; with the number of editors for these types (e.g. use the command wc). Use a simple table in OpenOffice Calc.

Add the full output you got in the terminal window during your work to an OpenOffice Writer file and export it as a file: linux-editors.pdf. Save this file in the directory: exercises/comline/ in your CBWE lecture home directory.

6 points

2. Manipulate output lines

- use the command dpkg to list all Debian packages, which have the word editor in their name.
- the package name is the second listed field, which is separated by two white spaces from the 1st field. Use the cut command to select the 2nd field only from the output.
- To get the correct input for the cut command you have change the dpkg output first. Use the sed command please, to manipulate the dpkg output. (With the sed command you can delete one of the two white spaces, e.g. by replacing one by the zero length character: ' ' .
- please create a pdf file: dpkg-sed.pdf from the terminal window contents for this exercise and save it in the directory: exercises/comline/ in your CBWE lecture home directory.

3 points

3. Start *kdirstat* in your CBWE course home directory in full screen mode, open the exercises subdirectory with all subdirectories (as possible) and make a screenshot about the directory tree. Save the screenshot as *kdirstat.jpg* in *exercises/comline/* directory.

2 point

4. Using the *find* command in your */home/cbwe-login/* directory:

a- search for the pdf files in the *exercises/* directory and make a long list about the found files

b- search for all directories and make a long list about the directories only (not about the contents of the directories)

e- search for files which are writable for the group and make a long list

f- create one or two screenshots about the output in the terminal window and save them as *find-1.jpg* and *find-2.jpg* in the *exercises/comline/* directory.

4 points

5. Copy directories using the *tar* command:

- create a subdirectory in your */home/cbwe-home* directory named as *backup-exercise*

a- create a tar file about the exercises directory tree as *exercises.tar*  
- list the first 10 lines of the *exercises.tar* archive

b- create a backup of the exercises directory using the tar utility in one complex command. The backup should be located under *backup-exercises/* directory.

c- create a screenshot about the terminal output as *tar-list.jpg* and save it in the *exercises/comline/* directory.

5 points

Deadline: 2010, January 18.