# Linux Essentials: Hoofdstuk 6, Software en paketten.

Oefening 1:

* student@student:~$ sudo apt update

Oefening 2:

* student@student:~$ sudo apt upgrade

Oefening 3:

* student@student:~$ sudo apt search usage and stats
* student@student:~$ sudo apt install btop

Oefening 4:

* student@student:~$ sudo apt search colorful cat
* student@student:~$ sudo apt install lolcat

Oefening 5:

* student@student:~$ sudo apt install neofetch && neofetch

Oefening 6:

* student@student:~$ sudo apt search the matrix
* student@student:~$ sudo apt install cmatrix

Oefening 7:

* student@student:~$ sudo apt remove btop

Oefening 8:

* student@student:~$ sudo apt search caca-utils
* student@student:~$ sudo apt show caca-utils
* student@student:~$ cacafire
* student@student:~$ cacademo

Oefening 9:

* student@student:~$ sudo snap find resource monitor

Oefening 10:

* student@student:~$ sudo snap install bashtop

Oefening 11:

* student@student:~$ snap run bashtop

Oefening 12:

* student@student:~$ sudo snap connect bashtop:mount-observe

Oefening 13:

* student@student:~$ snap list

Oefening 14:

* student@student:~$ sudo snap remove bashtop

Oefening 15:

* student@student:~$ snap list

Oefening 16:

* student@student:~$ snap changes

Oefening 17:

* student@student:~$ snap find asciiquarium
* student@student:~$ sudo snap install asciiquarium
* student@student:~$ snap info asciiquarium
* student@student:~$ snap run asciiquarium

Oefening 18:

* student@student:~$ zip -r /tmp/myhomefolder.zip /home/student

Oefening 19:

* student@student:~$ zip -d /tmp/myhomefolder.zip /home/student/.bash\_history
* student@student:~$ unzip -l /tmp/myhomefolder.zip

Oefening 20:

* student@student:~$ mkdir /tmp/zipdemo
* student@student:~$ unzip /tmp/myhomefolder.zip -d /tmp/zipdemo
* student@student:~$ tree /tmp/zipdemo

Oefening 21:

* student@student:~$ tar -cvzf /tmp/myhomefolder.tar.gz /home/student
* student@student:~$ tar –list -f /tmp/myhomefolder.tar.gz
* student@student:~$ mkdir /tmp/tardemo
* student@student:~$ tar -xf /tmp/myhomefolder.tar.gz -C /tmp/tardemo
* student@student:~$ tree /tmp/tardemo

extra uitleg:   
tar: Command for working with tar archives.

1. -c: Flag to create a new archive.
2. -v: Flag for verbose output (displays progress).
3. -z: Flag to use gzip compression.
4. -f: Flag to specify the archive filename.
5. /home/student: Path of the directory to be archived.

Unzips van tarball:

tar: Command for working with tar archives.

1. -x: Flag to extract the contents of an archive.
2. -f /tmp/myhomefolder.tar.gz: Flag and argument specifying the archive file to be extracted, which is /tmp/myhomefolder.tar.gz.
3. -C /tmp/tardemo: Flag and argument indicating the directory where the extracted files and directories will be placed. In this case, they will be placed in the /tmp/tardemo directory.

Oefening 22:

uitleg: Dit is niet rechtstreeks mogelijk, unzip in een nieuwe tijdelijke map en verwijder de file van de nieuwe tijdelijke map om die daarna terug te zippen in de nieuwe tarball. Zo heb je dezelfde tarball maar dan zonder de file .bashrc. Nu kun je de tijdelijke map die je aangemaakt hebt terug verwijderen. Dit is de meest efficiënte manier.

* student@student:~$ mkdir /tmp/tijdelijke-map
* student@student:~$ tar -xf /tmp/myhomefolder.tar.gz -C /tmp/tijdelijke-map
* student@student:~$ rm /tmp/tijdelijke-map/home/student/.bashrc
* student@student:~$ tar -cvzf /tmp/myhomefolder-without-bashrc.tar.gz -C /tmp/tijdelijke-map .
* student@student:~$ rm -rf /tmp/tijdelijke-map

Oefening 23 & 24:

* niet mogelijk op CLI (server die we moeten gebruiken)