

Linux introductie

Login gegevens

Username: student

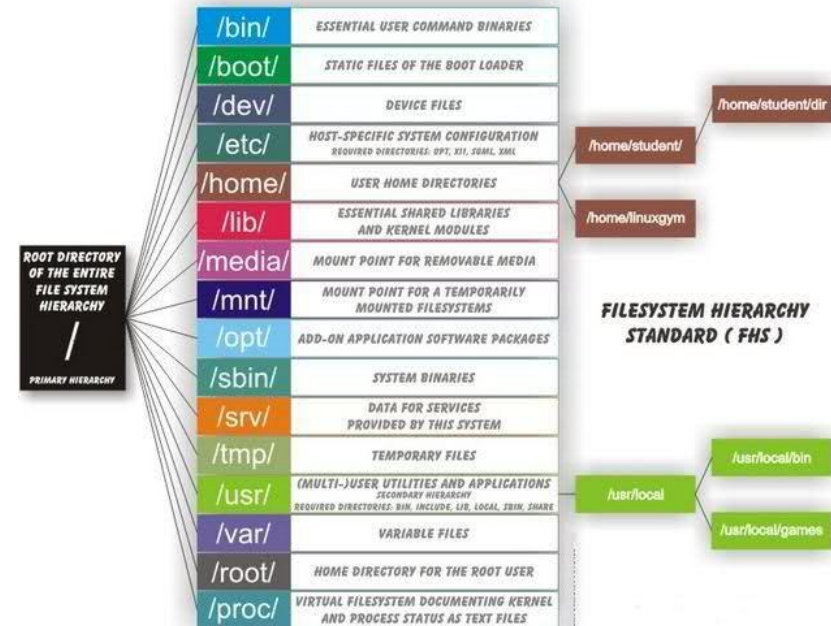
Password: Laar3400

Important info

- Files verdwijnen op shutdown
- 17:00 uur sluit de bib
- 18:00 uur sluiten pc's af

Basics - mappen

- `/home/*username*/`
- `/home/*username*/Desktop/`
- Studento directory



Basics - Programma's

- Text editing
 - Gedit
 - Eclipse (IDE)
 - Nano/Vim (Terminal, zie later)
- Computersystems & Architecture
 - Logisim
- Terminal (CTRL+ALT+T)
 - Inleiding Programmeren
 - Gegevensstructuren
 - CSA
 - ...

Terminal (Shell)

- Commands for navigating
 - ls
 - cd *directory*
 - pwd
- Other commands
 - sudo *command*
 - chmod
 - man
- Editing/viewing files
 - nano/Vim
 - cat / less

Navigating - ls

List content of current directory

View hidden files? -> Use flag (=option) -a

ls -a

Navigating - `cd *directory*`

Change current directory to given directory

e.g.:

```
cd *path*
```

Relative / Absolute path

Navigating - pwd

print current working directory

Shows absolute path of the directory you're currently in.

Other commands - sudo

Need admin rights? Add sudo before your command.

e.g.: `sudo ls`

Other commands - chmod

Change rights of a file.

For example: make a file executable

```
chmod +x *file*
```

Other commands - man

Need info about a certain command?

Ask for help: `man ls`

Viewing files - Nano/Vim/cat

Text editors: Nano and Vim

Show content of file command: `cat *file*`

Other commands

- Files
 - Create empty file: touch
 - Create empty directory: mkdir
 - Remove file: rm *file*
 - Remove directory with contents: rm -rf *directory* (sometimes sudo)
 - Remove empty directory: rmdir *directory*

Accessing studento at home

Works through VPN: virtual private network

Connect to the UA network through the internet.

VPN Client - Cisco Anyconnect: <http://www.ua.ac.be/main.aspx?c=.INFOCENTERSTUDENT&n=77606> (top link)

Follow installation instructions for your OS

Accessing studento at home (VPN connected)

`ssh *rolnummer*@studento.uantwerpen.be`
Wachtwoord geven als het gevraagd wordt.

~~ remote shell

Enkel files nodig? → FTP (Filezilla eens bekijken)

Host: studento.uantwerpen.be

Username: rolnummer

Password: wachtwoord

Port: default (22)

Installing Linux

- Dual booting
 - Windows + Linux alongside eachother
 - Need to reboot every time you want to switch
 - Fast!
- Virtual Machine
 - Run Linux inside Windows
 - Performance is 'slower' than running native
 - Virtualbox or VMWare

Linux virtual machine

1. Download an .iso file (<http://www.ubuntu.com/download/desktop>)
2. Install VirtualBox
3. Create a new virtualmachine
4. Go to settings -> Storage -> Controller: IDE -
> add CD/DVD (disk icon with green +)
5. Select your downloaded .iso file
6. Start the virtual machine!

Linux Dual Boot

1. Download an .iso file
2. Burn it to DVD or make a bootable USB
(For bootable USB's: <http://unetbootin.sourceforge.net/>)
3. Boot laptop from DVD or USB [Press F12
(Or F9,...)] while booting
4. Install!