

Getting set up with the VMWare Player and the Golden Image

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V1.0

Introduction

In this exercise you will set up the development environment for I3ISU, i.e. the Ubuntu image that you will use in development. You will also get some proficiency in the use of the terminal and learn some basic commands. Finally, you will team up and set up the group wiki.

Goal

When you have completed this exercise, you will:

- have set up the *VMWare Player* and the *Golden Image*
- have logged on to Ubuntu
- have familiarized yourself with the Linux terminal and the most useful commands
- have created a group wiki

Exercise 1 VMWare Player and the Golden Image

Exercise 1.1 Acquiring the Golden Image

- Download and install the newest *VMWare Player* from <http://www.vmware.com/products/player/>.
- Copy and unpack the *Golden Image* from
K:\staff2stud\EIT-elektro og IKT\3. Semester\I3ISU\VMWare Golden Image\GoldenImage.zip
to your local harddrive.

Exercise 1.2 Booting Kubuntu

Start *VMWare Player* and open the *Golden Image* (In *VMWare Player*: *File* → *Open*, browse to the directory where you unpacked the *Golden Image*). Then turn on the *Golden Image* virtual machine (green arrow, top left-hand corner) and watch Kubuntu boot

Exercise 1.3 Login

When Kubuntu has booted you will be faced with a login screen. Here you will see that the login name has already been pretyped (*stud*), just login using the password *stud*.

Exercise 1.4 Getting acquainted with the terminal

Exercise 1.4.1 File & Directory operations

Open a terminal and write down which commands you use to:

- Display the full path of the current folder:_____
- Get a list of all files and folders in the current folder:_____
- Change directory to `/home/stud`:_____
- Create a directory `/home/stud/test`:_____

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- Change directory to the subdirectory `test/`:_____
- Create a file `text1` containing *hello there* using `kate`:_____
- Create a file `text2` containing *hello there* using `echo`:_____
- Addend *1234567890* to file `text1` using `echo`:_____
- Dump the contents of `text1` to the terminal window:_____
- Copy `text1` to the directory `/tmp`:_____
- Delete `text1` and `text2` in one go:_____
- Delete the directory `/home/stud/test`:_____

Exercise 1.4.2 Program control & system poweroff

- Get a list of the currently running processes (programs):_____
- Run program `xload` in the background:_____
- Now kill the program `xload` you just started:_____
- Write a small shell script that lists the current directory. Remember to make you shell script executable using the program `chmod`.

1. `chmod` command:_____

2. Shell script:

- Shutdown the system (now):_____

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Exercise 1.4.3 Acquiring system information

- Display the current date and time in the terminal:_____
- Find the IP address of the network adapter `eth0`:_____
- Print system information:_____
- Print the kernel buffer:_____
- List all USB devices currently attached to the system:_____
- Determine the CPU type by looking the directory `/proc`:_____
- There is a lot of system information to find in `/proc`, mention at least 3 different files and what they tell you:
 1. _____
 2. _____
 3. _____

Use Google or other resources to find the command(s) necessary to complete the exercise.

Exercise 2 Getting started on your group wiki

Team up in pairs or threes and set up your group wiki. To do this, follow the guidelines in the note *Guide to the use of a wiki in I3ISU* from *NOTES and ARTICLES* on the course CampusNet site.