

## Exercise sheet 1x – Basic setup and first steps with Linux

### Goals:

- First steps with Linux
- Having some background information about Linux

### Exercise 1x.1: Test terminal

- Open **guake** terminal (F12)
- What is the current directory?
- Which user are you?
- What is the hostname?
- Which Linux kernel are you using (**uname -a**)?

### Exercise 1x.2: Test Linux shell 101 commands

- Show help for **ls** command
- List files for current directory (use **ls** command)
- Change to **/bin** directory
- List files for **/bin** directory
- Is there something you recognise?
- Change to **~/Desktop** directory. Where are you now (use the **pwd** command for that)?
- What is the meaning of the **~** directory?

### Exercise 1x.3: Watch: The Power of Linux: How Linux is Built

[https://www.youtube.com/watch?v=2acF\\_Nrj1AA](https://www.youtube.com/watch?v=2acF_Nrj1AA)

- On which devices does Linux run? (additionally search on the Internet...)
- Who determines which parts will get into the kernel and which won't?
- How many people work on the Linux kernel?
- How many lines of code does the Linux kernel have? (search on the Internet...)
- What is a patch?
- Where is the Linux kernel hosted?
- Who founded Linux?

### Exercise 1x.4: Watch: background videos (at home)

The mind behind Linux | Linus Torvalds

<https://www.youtube.com/watch?v=o8NP11zkFhE>

LOTS of People Have IDEAS. Can You EXECUTE YOURS? - Linus Torvalds - Top 10 Rules

<https://www.youtube.com/watch?v=xZRo37r701E>



- (a) How does Linus Torwald tick?
- (b) Is he nice to other people?
- (c) Does he enjoy collaborating with other people?
- (d) What are you going to do like Linus Torwalds and what not?

**Exercise 1x.5: Watch: linux course video (optional, at home)**

The Complete Linux Course: Beginner to Power User! (if you have that time  $\approx 7:30h$ )

<https://www.youtube.com/watch?v=wBp0Rb-ZJak>