Chapter 01 - Server, Login, Shell - TRAINING - Common

Course authors (Git file)



- Server and user credentials
- First lookaround in Gnome
- Load the course data
- 4 Linux shell



Server and user credentials

The PC environment for the course will be provied by IHP.

- Your PC in front of you must be connected to a server
- You will then work in a Ubuntu 24 Linux system
- The desktop GUI will be Gnome



Connect to the IHP server

Follow these steps:

- Open ThinLinc on the host PC
- Connect with the login data, given to you by IHP
- Ubuntu with Gnome desktop should start in ThinLinc
- Make it fullscreen
- "Forget about the host system?"

Notice:

- Please ask if there is questions!
- We'll try to do this for all participants first, before proceeding to the next steps of the training.



Search, start and close programs

Create and save a textfile:

- Search for a texteditor (gedit)
- Open gedit
- Write a litte (your name or anything else)
- Save the textfile with a name and the suffix .txt
- To a new dirctory: Documents/myfiles
- Close the texteditor (gedit)



Tab-switching between programs

Tab-switch between opened programs:

- Search and open at least three different programs (office, gedit, document viewer?)
- Tab between the programs (with ALT+TAB on the keyboard)
- 1 It is a circle. After three Tabs you should be at the first again.
- Close all programs



Download and unpack

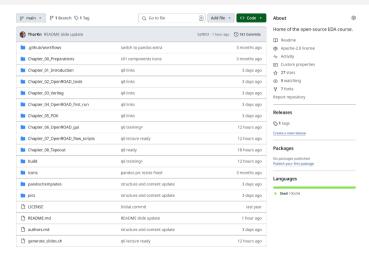
Get the latest release download package:

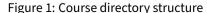
https://github.com/OS-EDA/Course/releases

- Create a directory for the course slides.
- In Linux the ~/Documents is a good place to create the directory. Maybe create the directory Documents/course
- Unpack the course into this directory.



Look around in the course data





Links from the slides

This might be outdated for the course, please try yourself.

- An issue with the linux document viewer and snap browsers.
- Links from slides don't open in the browser.

Possible workaround:

- Right click the link and copy
- Open browser
- Paste link to URL line



Workspace arrangement

Suggestions or Options:

- Arrange windows next to each other
- ALT+TAB between programs (tasks)
- Close unwanted windows after the completion of a chapter



Short commandlist of a linux shell

- ls (list content of directory)
- Is -al (list with more information)
- cd directoryname (change to directory)
- cd .. (change to upper directory)
- mkdir (make directory)
- touch (make file)
- mv (move)
- cp (copy)

If unsure how to use the commands, read the man-page:

```
1 | man <command>
```



Linux s

Online shell tutorial

To learn some Linux shell, you should find a tutorial that matches good to you.

I found this one simple and good to follow for me while learning Linux shell:

https://community.linuxmint.com/tutorial/view/100



Makefile

OpenROAD flow scripts use Makefiles. So you might want to learn some basics about Makefiles.

Again here is the tutorial that has helped me most:

https://makefiletutorial.com/



Tips and tricks

- TAB for autocompletion
- 2xTAB for all choices of autocompletion
- Open a new terminal with the mouse:
- Right click on an empty space in the directory window
- Choose "open in Terminal"

