

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

Course authors (Git file)



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



Server

- Which software to use on the Workstation
- How to connect to the server in IHP



Login

- User login on the server



Search and start a program



Tabbing between programs



Download and unpack

- Get the latest release download package:

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

- Create a directory for the course.
- In Linux the home/documents is a good place to create the directory.
- Unpack the course into this directory.



Look around in the course data

The screenshot shows a GitHub repository named 'ThorKn' with a README slide update. The repository has 161 commits and was last updated 1 hour ago. The directory structure is as follows:

File/Folder	Commit Message	Time Ago
.github/workflows	switch to pandoc:extra	3 months ago
Chapter_00_Preparations	c01 components icons	3 months ago
Chapter_01_Introduction	q8 links	3 days ago
Chapter_02_OpenROAD_tools	q8 links	3 days ago
Chapter_03_Verilog	q8 links	3 days ago
Chapter_04_OpenROAD_first_run	q8 links	3 days ago
Chapter_05_PDK	q8 links	3 days ago
Chapter_06_OpenROAD_gui	q6 training+	12 hours ago
Chapter_07_OpenROAD_flow_scripts	q6 lecture ready	12 hours ago
Chapter_08_Tapeout	q8 ready	18 hours ago
build	q6 training+	12 hours ago
icons	pandoc pic resize fixed	3 months ago
pandoc/templates	structure and content update	3 days ago
pics	structure and content update	3 days ago
LICENSE	Initial commit	last year
README.md	README slide update	1 hour ago
authors.md	structure and content update	3 days ago
generate_slides.sh	q6 lecture ready	12 hours ago

On the right side of the repository page, there are sections for 'About' (Home of the open-source EDA course), 'Releases' (1 tag), 'Packages' (No packages published), and 'Languages' (Shell 100.0%).

Figure 1: Course directory structure

Links from the slides

The known issue with the linux document viewer and snap browsers.

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 introduction to the shell

- `ls`
- `ls -al`
- `cd directoryname`
- `cd ..`
- `mkdir`
- `touch`
- `mv`
- `cp`



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”

