

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', 'Releases', 'Packages', and 'Languages'. The 'About' section describes the repository as the 'Home of the open-source EDA course.' and lists various statistics like 27 stars, 9 watchers, and 7 forks. The 'Releases' section shows 1 tag and a link to 'Create a new release'. The 'Packages' section states 'No packages published'. The 'Languages' section shows a bar chart with 'Shell' at 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”

