

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 the following directory structure and commit history:

| 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 |

Repository statistics: 161 Commits, 27 stars, 9 watching, 7 forks.

Releases: 1 tag, [Create a new release](#)

Packages: No packages published, [Publish your first package](#)

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”

