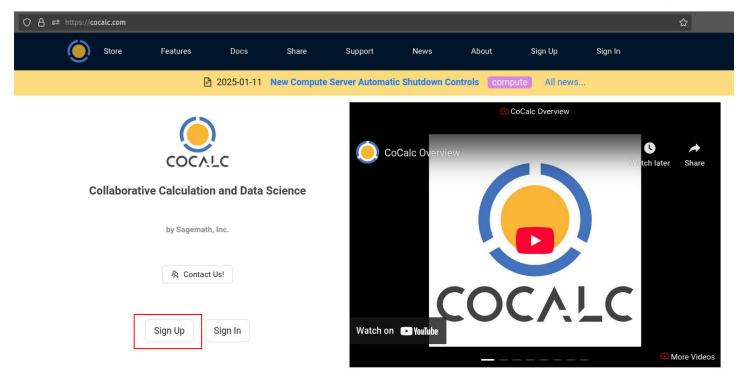
Introduction to High-Performance Computing CoCalc Introduction

Giorgio Amati Alessandro Ceci

Corso di dottorato in Ingegneria Aeronautica e Spaziale 2025 g.amati@cineca.it / g.amaticode@gmail.com alessandro.ceci@uniroma1.it

Registration



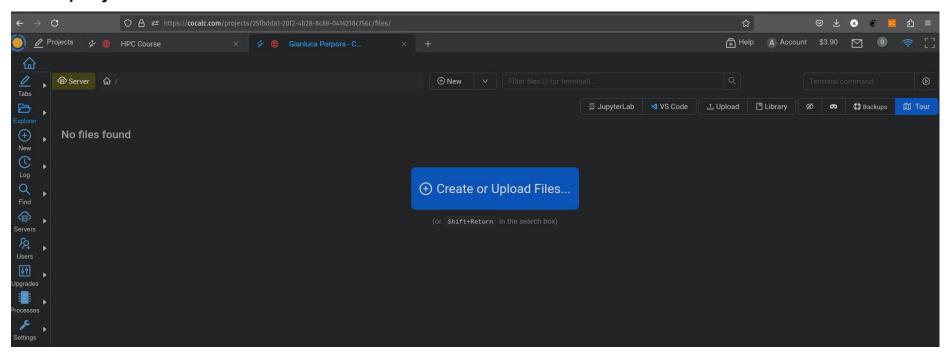
Go on https://cocalc.com and follow the registration procedure (as **student**) by clicking "Sign Up"

Registration

- ✓ Once registered, please share your "sign up" email with us
- ✓ You will be added to the project course ...
- ✓ ... and a personal project related to the course will be added to your account
- ✓ We have a limited number of licenses (currently 10)
- ✓ So we encourage "the brave ones" to actually use linux on their local machine

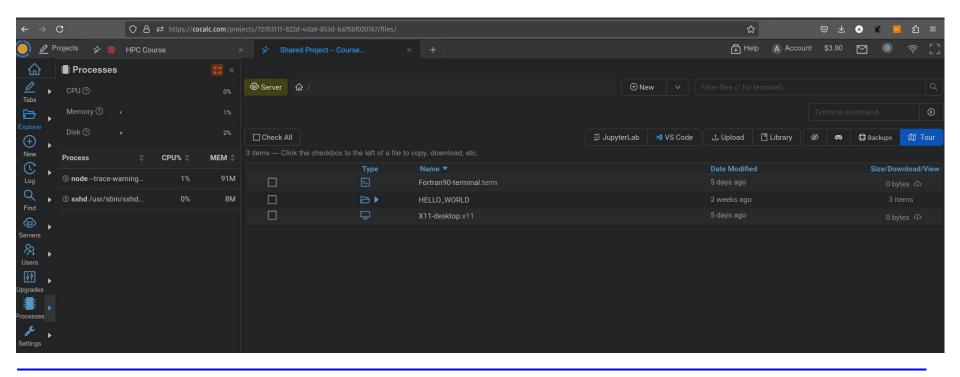
Registration

✓ If you have successfully registered and been added to the course, your project should look like this



Shared Project

✓ We also have a shared project were all participants (students + instructors) can work together, at the same time (!!!), interactively

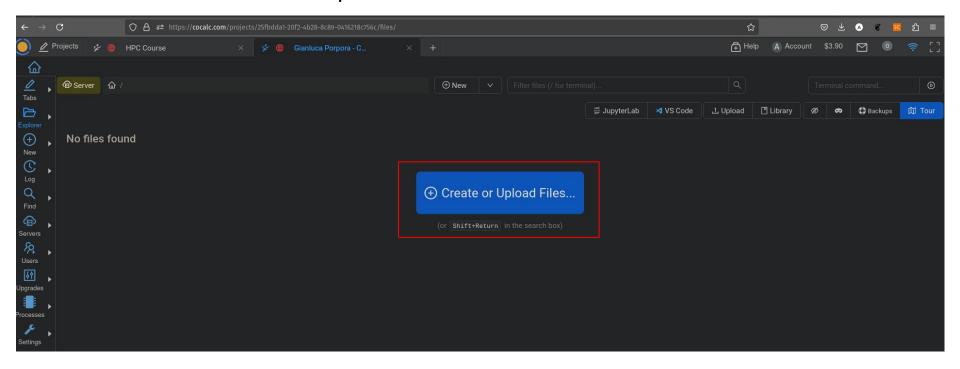


Shared Project

- ✓ The shared project will serve the purpose of showing you "hands on" experiences of the course material during each class
- ✓ The shared project contains a copy of the github repository used in the course
- ✓ It also has a linux terminal, a graphical X11 desktop interface for visualization and some miscellaneous examples
- ✓ Each participant can open the linux terminal and work, at the same time (!!!)
- So, you are encouraged to only follow the tutorials on it, and work in your own dedicated project

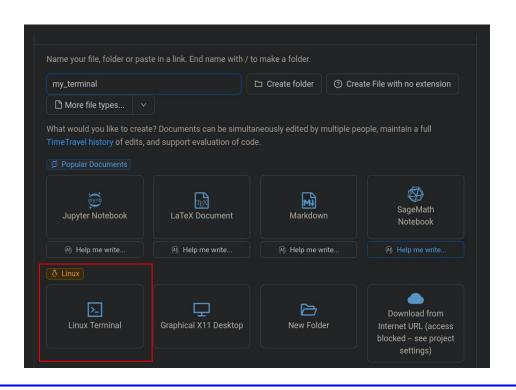
Personal Project

- Your personal project will be completely empty at the beginning
- ✓ Click on the "Create or Upload Files ..." button to add a linux terminal



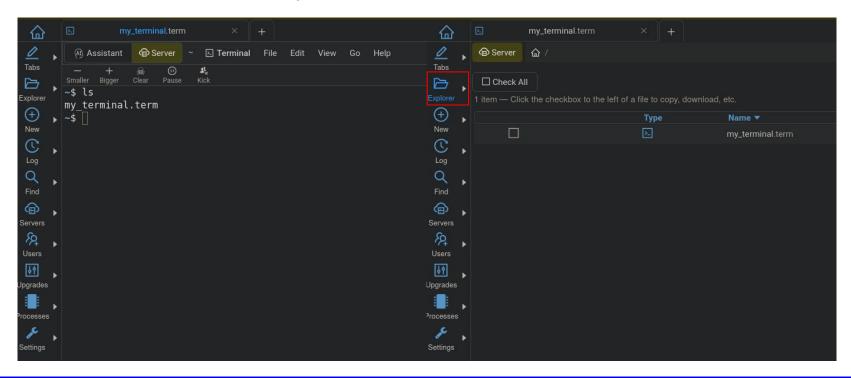
Linux Terminal

Rename your terminal as you prefer and clic on "Linux Terminal"



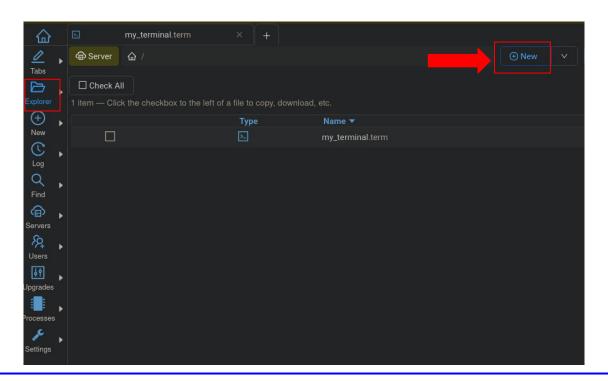
Linux Terminal

- ✓ You will be prompted immediately to your terminal ...
- ✓ ... that will also appear in your explorer



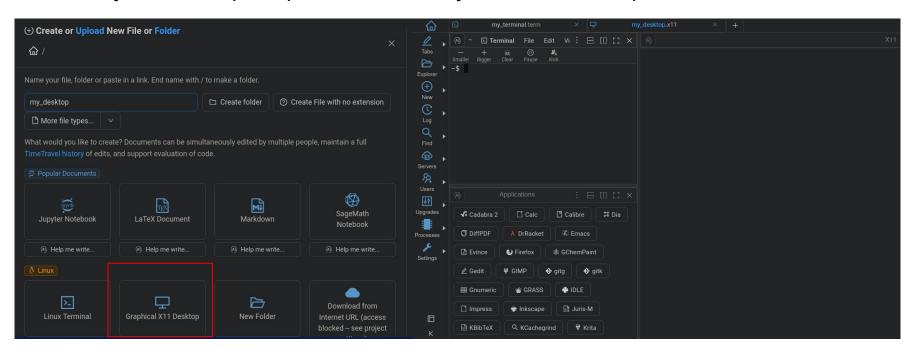
X11 Destop

✓ The last step of the project preparation is the addition of a desktop environment, open the Explorer and click on the "New" button to add it



X11 Desktop

- Rename your desktop as you prefer ...
- ... and you will be prompted to the newly created desktop environment



Congratulations!

- ✓ If all the steps were successfully completed ...
- ✓ ... congratulations! You know have a fully functional linux computer