

February 2, 2023 (Week 2)

Remote Servers, Version Control and Git

Objectives:

- Learn to work on a remote server
- Learn about available CERN computing resources
- Learn basics of using git for version control

Outline:

- Opening
- Setup round-table
 - CERN account
- Exercises
 - ssh
 - Log into lxplus
 - Lxplus resources (<https://resources.web.cern.ch/resources/>)
 - X11 (XQuartz/Xming)
 - scp
 - ssh config
 - VSCode remote explorer
 - Git
 - Principles of version control
 - Introduction to gitlab
 - ssh keys
 - Create a new project
 - Adding members and roles
 - Clone project
 - Stage, commit, push, pull
 - Merge conflicts
 - VSCode git extensions

Homework - due 8am February 7, 2023:

- Git repository
 - Create a new project
 - Add instructor as a Developer
 - Clone repository locally

- Add a simple text file
- Commit (with a message) and push changes
- Edit file using gitlab using Web IDE
- Pull changes locally
- Make another edit locally, commit (with a message) and push changes
- Email instructor when this is done