

BiBiGrid

Tuesday 3 December 2024 09:00 (3 hours)

BiBiGrid is an open-source tool hosted on GitHub that facilitates easy cluster setups in openstack cloud environments. It provides an HPC like environment, providing a shared filesystem (NFS) between all nodes, a job scheduler (Slurm) and a monitoring system (Zabbix) on top of Ubuntu LTS or Debian. In this hands-on session we will learn how to setup a cluster in the cloud using BiBiGrid and execute a simple workflow (nextflow) on it. We will then briefly explore how to tailor the cluster to your specific needs using self-written Ansible tasks.

Requirements: basic terminal knowledge, Python3 and ssh/ssh-keygen locally installed, Linux/OSX Terminal or Linux for Windows (WSL2) , Browser No previous knowledge in NFS, Slurm, Zabbix, nextflow or Ansible is required.