

17th Advanced School on Parallel Computing - AGENDA -

1st day – March 22th, 2021

Morning

- 9:15 - 9:30 Welcome - G. Muscianisi
- 9:30 - 10:15 Introduction to containerization - G. Muscianisi
- 10:15 - 11:00 Singularity: introduction and container building - G. Muscianisi
- 11:00 - 11:30 Break
- 11:30 - 13:00 Singularity: main commands to interact with a container - G. Muscianisi

Afternoon

- 14:30 - 16:30 Chat available about Singularity containers hands-on - G. Muscianisi, F. Cola

2nd day – March 23th, 2021

Morning

- 9:15 - 10:00 CINECA HPC clusters - F. Cola
- 10:00 - 10:45 Singularity: How To @ CINECA HPC clusters - F. Cola
- 10:45 - 11:15 Break
- 11:15 - 12:15 Singularity MPI and GPU containers - G. Muscianisi
- 12:15 - 13:00 GitHub, Singularity Hub and Singularity Library - F. Cola, G. Muscianisi

Afternoon

- 14:30 - 16:30 Chat available about Singularity containers hands-on - G. Muscianisi, F. Cola

3th day – March 24th, 2021

Morning

- 9:15 - 10:15 Accelerated HPC in container - G. Fiameni (NVIDIA)
- 10:15 - 11:15 HPC Container for AI on CINECA DGX A100 - M. Rorro
- 11:15 - 11:45 Break
- 11:45 - 12:15 Intel High Performance Computing Reference Stack - A. Luiselli (INTEL)
- 12:15 - 13:00 Other HPC Containerization tools - G. Muscianisi

Afternoon

- 14:30 - 16:30 Chat available about Singularity containers hands-on - G. Muscianisi, F. Cola

4th day – March 25th, 2021

Morning

- 9:15 - 11:00 Docker - M. D'Antonio
- 11:00 - 11:30 Break
- 11:15 - 13:00 Docker - M. D'Antonio

Afternoon

- 14:30 - 16:30 Chat available on Hands-on about Docker containers - M. D'Antonio, G. Muscianisi

5th day – March 26th, 2021

Morning

- 9:15 - 11:00 Spack: A flexible package manager for HPC software - S. Giuliani, L. Calori
- 11:00 - 11:30 Break
- 11:30 - 12:45 Spack: A flexible package manager for HPC software - S. Giuliani, L. Calori
- 12:45 - 13:00 Conclusions - F. Falciano, G. Muscianisi

Afternoon

- 14:30 -16:30 Chat available on Hands-on about Spack - S. Giuliani, L. Calori