

Infrastructure : How to better coordinate between the different domains ?

Summary

Solutions for WLCG and large projects are not necessarily applicable for a wide range of smaller projects within IN2P3. How can we better satisfy the different needs, how should this be coordinated and what should be the focus ?

Outline

- Example : HPC was not in the WLCG computing model, but is compulsory, for example, in cosmology to solve for large system or to perform numerical simulations.
- Needs
- How to coordinate ?

On stage

- Vincent Breton (LPC) : virtualization and academic clouds.
- Eric Chassande-Mottin (APC) : LIGO-Virgo, GT09-Gravitational Wave (GW) white paper.

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Needs

- HTC vs HPC, fast vs big storage, near data computing, distributed computing, ...
- On-demand and/or dedicated resources
- Shared with external collaborators ? (access control, identity management)
- Compliance with standard, on-the-shell software and technologies
- Computing but also data management and web services (data portals, executable tutorials using jupyter, ...)
- ...
- ...

How to coordinate ?

- Exchanges between communities : LHC-HL and LIGO/Virgo example
- Exchanges between computing centers : Federation ?, national / international level ?