



DPM Workshop

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December 2013



IT-SDC : Support for Distributed Computing

Welcome

- 4th workshop
 - CERN
 - Paris
 - Taipei
 - Edinburgh



Disk Pool Manager

- ~45PB, ~200 sites, ~10 with more than 1PB
- The most widely used storage system for the Grid
- Historical support for the Grid standards
- In the last years it started evolving faster, facing new challenges

Disk Pool Manager

- Evolution: modern codebase, new DMLITE sw stack, important plugins have been rewritten with performance in mind
- Apache or gridFTP or Xrootd or <whatever> can load the DMLITE stack, giving standardized and very flexible features
- DMLITE can talk to the historical daemons (dpm_) or go straight to the DB
- DPM keeps historical daemons for compatibility with the legacy dpm_ and dpns_ clients, also used by the SRM.
 - The historical dpns (and hence LFC) has been enhanced to make it perform better (up to 4X-5X)

Disk Pool Manager



- A fully plugin-based architecture calls for plugins
- The decision has been to emphasize the modularity, by releasing plugins individually packaged
- Very big forward leap with the evolution of the builds
- Full EPEL release happened in the first week of September
 - 47 SEs already upgraded after a few weeks!

The workshop

- Morning: site reports, by country
 - Expected reports, numbers, requests and proposals
- Late morning: introducing the present and future tech items
 - DPM collaboration
 - Directions
- Afternoon: tech talks
 - New plugins
 - Upcoming things

Just a few items thrown here

- dmlite
- lcgdm-dav
 - Wider shut: HTTP ecosystem = other tech providers + interoperability + federations + good clients
- S3
- HDFS
- Xrootd
- GridFTP and GridFTP2
- DMLite Shell
- Explicit file placement
- HTTP/DAV-based admin tools



Thank you
Enjoy the workshop

