DPM workshop
2014

Welcome!

- Welcome to the DPM workshop 2014
- Our themes follow:
- Let's keep the community healthy by promoting exchanges of ideas
- DPM is one of the most used SE tech in the Grid
- Keep up with the production quality and the growing expectations
- Move the tech incrementally towards stable, performant, flexible components
- Support the protocols and interactions of the Grid
- Promote HTTP and WebDAV as an opportunity
- We are happy of these expectations
- Big responsibility on our side, we are proud of it and thank you very much for your participation throughout the year and now

DPM

- 47-50PB, 177 sites, 203 instances
- ~10 instances with more than 1PB, many VOs
  - source: http://wlcg-mon.cern.ch/dashboard/request.py/siteview#currentView=Storage+Deployment

- The most widely used storage system for the Grid

- Historical support for the Grid standards
- Emphasis for open protocols, HTTP in particular
- Continuous proactive support and development

DPM distros

- DPM keeps compatibility with older clients, with a set of components that we call "legacy", e.g. dpns*, dpm*, rfio*

- Our challenge has been to promote new frontend implementations that fulfil today's standards

  - And use less and less the legacy components
  - Without breaking compatibility

- The 2 years move to a high quality RPM distro is now metabolised

- EPEL is our main channel to distribute our sw

Releases

- DPM has many components
- Most of them, not all, share the same version number
- We anyway refer to DPM with an unique version number that univocally identifies a certain bundle

- The previous version was 1.8.8
- The current one is 1.8.9 and is currently in EPEL-test

- This workshop happens to be a good place to discuss the push to EPEL stable.

The workshop

- We will try to balance the dev and sysadmin points of view
- Sysadmins give their status, feedbacks, ideas
- Devs produce software
- New, old, improved features
- Performance improvements
  - Last year it was about letting the legacy daemons survive until the dmlite stack could get a more important role
  - This year is about consolidating and avoiding the legacy stack for more kinds of tasks
- The past workshop was on schedule, yet someone felt constrained for not having enough time for discussion
  - And I agree, it was even too dense
- This year the schedule is less tight, and we have 1 day and a half
- We encourage you to give your view and suggestions

The workshop

- Morning: site reports, by country
  - Expected reports, numbers,requests, proposals, discussions
- DPM collaboration
- Afternoon: introducing the present and future tech items
  - Directions
- Tomorrow morning:
  - More tech items about sysadmin tools and usability
  - Realtime multiprotocol monitoring
  - Setup with Puppet, with hands-on

Some topics

- current status of the implementation of the features
- current status of the deployment in sites
- points of view of the system administrators, that made DPM a successful system
- current status of the codebase and the build system
- availability of the packages in the mainstream repositories
- deprecation of YAIM and transition to Puppet-based setups
- realtime activity monitoring and compatibility with the existing GLED infrastructure
- federating DPMs using the Xrootd and HTTP protocols
- new components, their adoption in the codebase and in the sites
- cross-components restructuring and improvements

Dinner and Fee

- The dinner will be TODAY at the
- Ristorante-Pizzeria MANFREDI
  - Via Santa Teresa a Chiaia, 33
- The price is 35 euros each

- The local INFN section kindly offered to fund the workshop room and breaks
  - Hence, NO fee anymore
  - THANKS!

- Enjoy