Storage Information Meeting
Maria Alandes Pradillo IT-SDC
15th April 2014

Summary

- Introduction
- Goals and Priorities
- Format and Frequency

INTRODUCTION

Status of Information Providers

- Started to collect information about Information Providers on January 2013
    - https://twiki.cern.ch/twiki/bin/rdiff/EGEE/ISproviders
        - Maintainers and support
        - Code base

- Started to follow up also on open GGUS tickets reporting problems with Storage information

- On March 2013, started to check GLUE 2 publication

GLUE 2.0 Validation

- Templates for GLUE 2.0 provided
  - DPM (May 2013):
    https://twiki.cern.ch/twiki/bin/view/EGEE/DPMGLUE2template
    - Fixes provided in version 1.8.8 (not yet released)
  - StoRM (July 2013):
    https://twiki.cern.ch/twiki/bin/view/EGEE/StoRMGLUE2template
    - Fixes provided in version 1.11.2 (September 2013)
  - dCache: None (Because GLUE expert is part of the team)
  - Castor/EOS: GLUE 2 information provider missing
    - A summer student at CERN will work on it this summer

GLUE 2.0 Open Issues

- Tracked in a twiki
  - https://twiki.cern.ch/twiki/bin/view/EGEE/GLUE2Storage
  - Different values in GLUE 2 Attributes
    - GLUE2ServiceType
    - GLUE2EndpointCapability
    - GLUE2StorageAccessProtocol
  - Different ways of publishing storage capacity
    - And it seems VOs like LHCb and ATLAS would like to rely more on the BDII for Storage Capacity
      - So we have a use case to improve these numbers!

Conclusion

- After the GLUE 2.0 validation exercise it was clear that it would be good to have a place to discuss Storage related issues impacting the Information System in a regular basis.

GOALS AND PRIORITIES

Disclaimer

- The following slides summarise a list of open issues that could be addressed in future meetings

- The idea is to identify now what we want to discuss and agree

  - But let's leave the discussions for future meetings!

GLUE 2.0 harmonisation

- Review open issues tracked by Maria in https://twiki.cern.ch/twiki/bin/view/EGEE/GLUE2Storage
  - Make sure all Storage Systems publish things in the same way: protocol names, capabilities, etc

- Review Storage Capacities
  - Agree on the usage of capacity attributes
    - Discussion started last summer show developers do not always interpret attributes in the same way!
  - Think of a way to demonstrate the validity of storage capacities so VOs can rely on these numbers
    - In some cases there are easy ways to validate this:
      https://wlcg-mon/dashboard/request.py/siteview#currentView=BDII+vs+SRM+LHCb+Storage
      - This dashboard compares SRM vs BDII numbers for LHCb T1s

GLUE WG decisions

- Recent GLUE WG meetings need input from Storage experts
  - Paul Millar is part of the WG, is this enough?
    - Could he be the link between Storage Developers and GLUE WG?
  - Need to extend Service Types and Interface Names
    - New Service Types: DPM
    - New Interface Names: webdav and xrootd

IT-SDC

Webdav/xroot endpoints

- VOs like ATLAS are interested in having webdav/xroot endpoints published in the BDII
  - DPM has fixed info provider to publish them (version 1.8.8 to be released soon)
  - StoRM does not seem to offer these access protocols (?)
    - But some sites like UKI-LT2-QMUL run an xroot server in parallel, how can this be published in the IS?
  - dCache seems to publish these endpoints
  - EOS?

HTTP federation

- Fabrizio Furano is interested in using the Information System to publish
    - Site prefixes
    - SRM prefixes
    - To be collected by the UGR (Uniform Generic Redirector)

Data Transfers Monitoring

- Current WLCG Transfer Monitor covers data traffic perfomed with
  - FTS
  - Xrootd federations
- FTS and xrootd servers were instrumented to report such transfers
- We ned to enable monitoring also for the HTTP/webdav data movement
  - It seems existing instrumentation does not work in this case
- Agreement and coordinated effort is needed among all storage providers

FORMAT AND FREQUENCY

IT-SDC

Proposal

- Meet once per month
  - Tuesday afternoon?
    - Avoid clashes with WLCG MB if possible
- Need chair and minutes
  - Volunteers?
- Create twiki?
  - Summarising goals and priorities
  - Containing Indico Agendas
  - Listing members
    - Who else should be part of this? Who are we missing?
- Create mailing list?
- Do we want to turn this into a WLCG TF?