SRM2.2 Deployment Workshop

Greig A. Cowan

University of Edinburgh

GSSD, October 2007

GridPP
UK Computing for Particle Physics

1 SRM2.2 is a critical service for WLCG.
   - Essential that all sites deploy and operate SRM2.2 storage.

2 Time for production deployment is approaching.
   - Selected T1s starting now, everyone else by **end of January'08**.

3 Tier-1s have built up experience running small PPS SEs.
   - Experience has shown that config of a running service is **non-trivial**.
   - These systems have not been tested with production workloads.

GridPP
UK Computing for Particle Physics

4 Tier-2s have **no** experience of SRM2.2 services.
  - Need to understand what SRM2.2 is and how it will be used.
  - Limited documentation.
  - Need input from the experiments/GSSD.

5 There are many Tier-2s, amounting to a lot of disk.
  - There will be **problems** during the rollout.
  - Workshop provides opportunity to gather experiences and material.

Site-admins: Tier-2s and Tier-1s with experience of running Grid storage.

- Focus on DPM and dCache - these are most widely deployed (100's of sites).
- Only a handful of sites using CASTOR/StoRM.

We need to bring the sites together with the experts:

- **Software providers:** They know how the software **can** be setup.
- **Experiments/GSSD:** They (hopefully!) know how the software **should** be setup to meet their needs.

http://indico.cern.ch/conferenceDisplay.py?confId=21405

Basic SRM concepts:

- Brief history of SRM2.2 development (for context).
- The language of SRM2.2 - spaces, rentention policy, access latency.
- GLUE1.3 and SRM2.2.

Parallel lectures/tutorials for the different implementations:

- DPM
- dCache

Experiment input.

GridPP
UK Computing for Particle Physics

http://indico.cern.ch/conferenceDisplay.py?confId=21405

SRM testing and validation:

- SAM, site monitoring tools.

Hands-on tutorial:

- We hope to have some test instances set up to give sites a chance to apply what has been learnt.

Workshop should not be forum for discussion on future developments.

- Must focus on deployment of production service.

GridPP
UK Computing for Particle Physics

- dCache.org has asked for a dedicated Tier-1 session.
- NDGF and FZK scheduled to upgrade to v1.8 before workshop.
  - Lessons learned should be presented during the tutorial sessions.
- PIC, IN2P3, SARA and RAL have confirmed. Waiting for others.

GridPP
UK Computing for Particle Physics

We asked the experiments to nominate key Tier-2s who should attend workshop. These cover the following regions.

- UK
- Germany
- France
- Italy
- Switzerland
- Spain
- Japan
- Australia
- Estonia

Invitations have been sent out. Waiting for response.

GridPP

UK Computing for Particle Physics

Sites should have a good understanding of the following:

- Basic SRM2.2 concepts, including GLUE.
- The needs of the LHC VOs that they support.
- How to configure the SRM2.2 service to meet these needs.

To kickstart the production rollout of the WLCG SRM2.2 service

GridPP
UK Computing for Particle Physics

National eScience Centre (NeSC), Edinburgh, Scotland.

- Main auditorium capacity: 105
- 2 smaller rooms for parallel sessions/hands-on.

Main workshop:

- Tues 13th (afternoon) and Wed 14th (all day) of November.

dCache Tier-1 session:

- Tuesday 13th (morning).

GridPP
UK Computing for Particle Physics

No registration fee required as we have contributions from:

- NeSC
- GridPP
- WLCG? (This is currently being explored)

Current levels are sufficient for 50 delegates.

- Lunch/coffee/workshop dinner.

Sites will have to cover travel and accomodation themselves.

GridPP
UK Computing for Particle Physics

- SRM2.2 is essential service for WLCG.
- Complex software must be deployed in production by Feb'08 at all sites.
- Sites need training and VO requirements presented.
- Workshop aims to kickstart this process.

- Still to do...
  - Chase up the invited Tier-1/2 sites.
  - Provide details for accomodation etc.
- Thanks to Flavia for all of her help!

http://gridpp-storage.blogspot.com