December GDB

Brief summary – J Coles

Meetings

- January meeting moved to 15th
- 2014 events created. Check
- March meeting outside CERN.
- Copenhagen workshop – reasonable attendance. Some notes online.
- Future meetings – Accounting, HS06, jobs with high-memory profiles, H2020 projects, cloud issues.
- Pre-GDBs: January on clouds. Feb 11 on ops coordination.
- New SAM tests (request for overview). Comments on fairshare impacts and might be stuck behind production activities.
- DPM workshop 13th dec. DPHEP curation workshop 13-14th Jan. ISGC 22nd-28th March. HEPiX May 19-23. EGI Community forum 19-23 May.

Identity federation

- Traditional access to grid – 3 steps. Target to put x509 and VOMS parts behind UI/portal.

- Use cases: web-based portals/job submission; CLI-based (submission and admin tasks).

- Identity federation pivots on trust/policy issues

- Laid out requirements and regulation: a policy on attributes for WLCG.

- Building blocks identified. Technical pilots successful – need to fit together.

IOTA – Dave Kelsey

- Identifier-Only Trust Assurance with Secured Infrastructure Authentication Profile (IOTA)
- Traceability requirement
- Some operational issues
- Cannot mix Vos requiring different levels of assurance!

Provisioning of EGI core services

- UMD-2 components to be decommissioned/upgraded by May 2014. Monitoring Jan; Alarms Feb 2014. End May 2014 suspension.
- Core services: Msg brokers -> GRNET & SRCE. No major change but test infrastructure goes.
- Accounting unchanged.
- Accounting portal unchanged. Metrics portal will become best efforts.
- SAM central service -> GRNET, CNRS & SRCE
- Catch-all VOMS/CA from GRNET and CYFRONET.
- Security coordination.
- Staged rollout will continue. Coordination LIP (10% reduction in effort).
- Helpdesk: Provided by KIT as a service (next 2 years)
- 1st/2nd level support will move to IBERGRID & CESNET. Core service providers do own support (e.g. APEL).
- Note: Some services much less funding but there is a commitment to WLCG for some services (CERN is doing it for WLCG if not EGI as agreed at OB).

WLCG ops coordination

- New task force on multicore deployment.
- Next meeting 19th December
- Cancelled/delayed plans: Data access & Dynamic data placement TFs.
- Plans: ALICE – CVMFS & SAM tests
- ATLAS- FAX, Rucio, cloud benchmarking/multicore
- CMS- Multicore, xrootd federation
- LHCb- perfSONAR link DIRAC. Switch SL6.
- SL6 – positive outcome
- CVMFS: WN caches sometimes stale (improve monitoring). Base v2.1.15.
- Glexec – still deploying. CMS tests critical from Jan.
- SHA-2
- perfSONAR: deploy >3.3.1 by 1st April. If behind FW request open specific Ips. Issue with code support.
- FTS3. Stable. Usage increasing. Looking at deployment scenarios.
- Tracking tools – migration to JIRA. GGUS xmas cover.
- Xrootd: 2.6 needed for SHA-2 and monitoring. Consolidate GLED collector.
- Machine/job features – System converge on minimise waste of CPU time for multicore pilots.
- IPv6: recipe for IPv6 on SLC6. CMS testing CMSWEB on iPv6. ATLAS DDM tests soon.
- WMS decommissioning. Still some CMS use. 20 LHCb sites to move to direct submission.
- Middleware readiness – kick-off tomorrow.

SHA-2 readiness and plans

- Sites: Steadily upgrading. Main concern Ses. 5 dCache and 7 StoRM still to be done. BNL/FNAL in Dec.
- Clients: dCache SRM client need newer version (jglobus2) to handle SHA-2 host certs. Some CMS sites may have configured client for local staging. 2.6.12 released on Dec2 as part of EMI-3 Update 11. 2.2.x update for EMI-2 WN being prepared.
- Experiments: Look ready.
- Timelines: by mid-January "essentially ready". OSG CA switch mid-Jan. CERN CA will switch when WLCG ready.
- VOMRS. Does not support directly. VOMS-Admin being prepared (but there is an instability).

New DM clients - migration

- Gfal/lcg-util on maintenance only. No IPv6 support.
- Status gfal2: 2.3.0 in EPEL. ABI and API incompatible. Advantages: srm, gsiftp, http, xrootd.
- Cmd line tools – gfal2-util.
- Will distribute EPEL5 and 6. Removed from EMI repos. Release as needed.
- LFC support: LFN:// deprecated. Can still use if LFC_HOST defined.

LHCOPN/ONE meeting report

- 2 new T1s.
- Traffic overall starting to ramp up again
- OPN evolution workshop 10-11 February.
- L2VPN and R&D
- P2P service (R&D). Project leaders at sites wanted.

IPv6 – Dave Kelsey

- Data transfer lessons learned.
- Software and tools IPv6 survey
- Use cases
- Testing in 2014
- Timetable: many sites need to support IPv6. Workshop in Spring/Summer 2014.
- ** CERN IPv4 pools status update
- IPv6 staged testing results... next stpes inv dhcpv6
- Will hit CERN in 2015. Dev almost done. Deployment by Q1 2014.
- cern.ch/ipv6

Global service registry – Maria Alandes

- Present system: – Central portals: OIM and GOCDB + Distributed BDII hierarchy
- Syncs are a problem. Vos have different solutions (Alien-DIRAC-AGIS...). GSR aims to simplify this area (caches static info).

- Prototype implemented and feedback positive.
- Need use-case

HEPiX

- Background
- Good attendance. Included company reps.

- Networking and security (9 talks)
- Computing and batch systems (6 talks)
- IT facilities (3 talks)
- Basic IT services (8 talks)
- End user IT services and OS (3 talks)
- Grids, clouds, virtualisation (7 talks)
- Storage and file systems (10 talks)
- 16 site reports

- SPECcpu benchmark announced for Oct 2014. Start preparing now.