CCRC'08 Weekly Update

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LCG MB, 4th March 2008

Overview

- **This 15′ summary is a weekly update** **i.e. since last week**

× **It is not a summary of today's CCRC'08 F2F**

× **It is not a summary of the complete experiences preparing for and running the February phase of CCRC'08**

☞ **Some of this will be covered at tomorrow's GDB**

- And some will come only in April – when we have had time to digest and analyze the results – against the agreed metrics

➢ **See also presentations given at today's CCRC'08 F2F… in depth reviews of key areas with concrete actions**

Last week of February

- Continued without any major problems
- ☺ **Combined data exports ran for several days between 1-2 GB/s - CMS today (Monday) is running close to 1GB/s by themselves!**
- All this work continued in parallel to many other activities
- ☺ **This IMHO is an important message – people might still be very busy but we are able to do more than "just run the challenge" for extended periods!**
- **Getting much closer row 2: (table)**

Activities	Results
1. Crisis & problems	Stress, burn-out, fire fighting, crisis management
2. Planning, new opportunities	Vision, balance, control, discipline
3. Interruptions, e-mail, …	Out of control, victimised
4. Trivia, time wasting	Irresponsible, …

Some Issues / Concerns

☹ **"Those guys aren't telling us everything they know"**

- **Hard to get open and timely analysis of (some) problems – but we should try and can do better!**

- On-call & expert call-out – not well advertised
  - As in H_2G_2...
  - Request to extend expert call-out also to Tier1s & update site emergency contact details
- Use of elogs – relatively little input from sites(?)
  - Important to get the complete picture...
- Attendance at (quasi-)daily con-calls
  - Was important to have experiments represented (often by EIS members) – relatively few sites...

None of these are hard to fix and would make life easier, smoother, more enjoyable for all!

WLCG & EGI – Overview

- To demonstrate readiness for LHC Data Taking, WLCG is currently executing a Common Computing Readiness Challenge (CCRC'08). This challenge has two phases:
    1. February 2008 – not all 2008 resources but as many production activities as possible of all 4 LHC experiments should be demonstrated concurrently;
    2. May 2008 – using the full 2008 production resources, and all 2008 Use Cases.
- Builds heavily on the infrastructure established and operated through EGEE (I, II, III)
    - **The results must be considered a success of these projects!**
- Will be repeated at the start of every data taking year for the foreseeable future
    - significant changes are likely to be put in place for many years to come – new middleware versions, new experiment versions, additional resources and so forth.

Questions

1. **Could CCRC'08 have run successfully in the EGI environment?**

   The clear answer to this question today is <u>no</u>. This is an important issue that WLCG will need to address with priority, so that it is no longer true before 2010.

2. **What needs to be in place and by when to ensure that CCRC'10 – and 2010 data taking and production processing – is successful?**

   - The answer to the second question has significant relevance to the EGI_DS project, as well as the **transition to / start-up** of EGI.

In The Year 2010

- The yet-to-start EGEE III project will terminate
- There will be no EGEE IV (assumption)
- EGEE III funded people (those who started in EGEE) must leave CERN (if not granted an indefinite contract)

- We will perform a readiness challenge at about this time

➢ **This must be with the same infrastructure as we will use for 2010 data taking**

✦ **Required infrastructure must be in place by late 2009**
  - **Target: 2 months of pre-challenge ramp-up**

Can EGI Deliver What We Need?

- **If not – which absolutely must include being on time and non-disruptive – an alternate strategy must be developed within WLCG, starting immediately**

- Logically, this could only be based on what exists today, **i.e. today's operational tools and infrastructure**

- In other words, the WLCG Tiers & their MoU commitments

¿ **What is the minimum required?**

- **We need to know this in either scenario – operations sessions at April workshop + feedback from Rome?**

Minimum Requirements

- These are basically as out-lined in EGEE III operations manpower plan, plus also:
  - m/w development: reasonable stability for what WLCG needs should have been attained by this time
  - Storage-ware: likely to still be evolving (*ma non troppo*)
  - LCG Operations and Application / User support: outside scope of EGI and continues as now (GDB, WLCG section of operations meetings, WLCG Collaboration and other workshops, WLCG procedures etc.)

See caveat on timeline!

  - Important features are planned start-up funding for NGIs, migration scenarios, guarantee of non-disruptive evolution etc.

For more information, see the attached document!

CCRC'08: Looking Ahead...

- April F2Fs: agree on middleware and storage-ware for May

- April Collaboration workshop: discussion on the agenda?

- June "post-mortem" workshop: have both IT amphi & Council Chamber for the moment...
  - In case of parallel meetings: experiment jamborees, operations meetings, ...

Tonight at 18:30 in R2: drink!

Summary

- CCRC'08 has been a very useful exercise that has resulted in further hardening of our production services

- There is still much to do – some for May and some for beyond!

- We have shown we can run production services with ~reasonable load on people involved

- (Much) more load is expected – keeping other variables the same with this increased load would be a success

- ☺ **Thanks to all involved for their excellent work!**