



LCG1 to LCG2 Transition

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Overview



- LCG2 what is different
- LCG1 -> LCG2
- Discussion



- Software
 - Some changes in the data management
 - Improved stability in the services
 - Switch to radical different Ses (SRM) (soon)
- Operation
 - Focus now on production quality
 - Focus on total amount of resources
 - Focus on stability during the experiment's data challenges
 - Focus not primary on number of sites.
- Installation/Configuration
 - Now the sites can choose between manual and LCFGng based procedures
 - makes integrating existing resources easier
 - WN, UI, CE, SE, RB, lcg-BDII,(missing PROXY)



- This lead to the concept of CORE Sites
 - Well supported sites that can initially follow early releases quickly
 - Experienced staff that quickly can locate configuration problems
 - Each site committed to provide significant resources (storage, CPU)
 - Sites integrate their local computing facilities with LCG
- Current Core Sites:
 - CNAF,CERN,FNAL,FZK,NIKHEF,PIC-Barcelona,RAL,Taipei
 - Total of > 1800CPUs
 - Improved communications:
 - Core site mailing list
 - weekly phone conference (not workable with 30+ sites)



LCG1->LCG2



- Only well tested sites should be added to the core
 - More testing
 - Testing by the experiments
 - Tested and non tested sites should not live in the same environment
 - This avoids faulty sites to attract jobs.
- Based on the new LCG-BDII we can separate LCG2 into different views.
 - A view is represented by a configuration file for the BDII
 - A view can be shared and centrally managed (http)
 - A site can be present in different views
 - An RB submits only to sites that are present in the view
 - Experiments can provide their own configuration files and add/remove resources



LCG1->LCG2



- Currently: Views for CMS, LCG2 Production, and LCG2 TestZone.
- Moving a site from LCG1->LCG2
 - Site contacts primary site (CERN in case of an independent sites)
 - Site installs given tag using the preferred procedure
 - Initially the site installs CEs, WNs, and SEs only using the testZone RB and BDII
 - Site contacts primary site
 - Primary sites sends site GIIS name and hostname to the deployment team
 - deployment team adds the site to the TestZone configuration
 - primary site runs initial checks and solves problems with the site
 - do simple jobs run?
 - can the site access storage (local, remote)?
 - do the datamanagement tools work?
 - is the experiment software installation mechanism working?
 - The deployment team runs a test suite on the new site
 - The experiments will be invited to run their test jobs on the site
 - The deployment team repeats their tests.
 - Site is added to the core sites.



New Sites



- Contact a suitable primary site first
- Primary site walks the new site through the process
- There is a problem for new sites to find the correct place to enter the game. We need a link from the top page of LCG



LCG1->LCG2



- When?
 - Should have started last week
 - Some sites started on their own
 - Documentation needs to be updated
 - Validation jobs need to be added to the release
- Why delayed?
 - Limited number of persons
 - Data challenges required a lot of on demand work



Discussion



- What specific part of the documentation needs improvement?
- Primary/Secondary sites
- Initial Testing.....