Site status during October 2008: ALICE Experiment

P. Méndez Lorenzo

WLCG MB, 18/11/08

Reliability and Availability results for Oct08: Discussion

- Control improvements in the past months
  - Redundant monitoring nodes – both monb002 and monb003 in production
  - Status monitored via Lemon sensors avoinding any overload of the systems
- **October 2008:** user proxy issue at monb002 and monb003 prevented the launching of SAM test during several days
  - Independent of the sites and also of the experiment
  - Issue identified through Nagios and fixed
  - Coincided with interruption in the ALICE production
    - SAM test results were not followed in detail at that time

Plans for the next months

- ALICE VOBOX tests are valid
  - They are also generic and can be used by other Vos and Ops
- No plans to change the tests associated to the CE sensor
  - Test is on job submission and status of the s/w area
- ALICE is planing to implement a new test for the WMS sensor before Xmas time
  - Pure ALICE test not exploitable by other VOs

The new WMS test: Motivation

- ALICE has fully migrated to WMS submission mode
- The «keep jobs» feature of the WMS is undesirable
  - **CASE1** (CE down): The jobs are kept for further resubmissions
  - **CASE 2 (**WMS overload or in draining mode): same as above
  - These «pending« jobs are ghosts form the ALICE point of view
    - They are not counted by the LB nor the IS
    - Once the CE or the WMS comes back in production, the bunch of pending jobs are submitted
  - The feature can be disabled in ALICE dedicated WMS but not in those WMS shared with other VOs

The new WMS test: Implementation

- ALICE has already implemented into their own submission system a WMS selection procedure similar to that proposed at CERN (AFS UI)
  - Use RB1 OR RB2 OR RB3. If all these WMS fail…
  - Use RB4 OR RB5 OR RB6

- Once the « drain flag » is implemented, this procedure will avoid the CASE2

- However until that moment and also to avoid the CASE1 a WMS test is neccessary to avoid uncontrolled number of jobs being submitted to the sites and potential overload of site CEs

The new WMS test: HOW?

- Hourly test job from the site VO-BOX

- Test of all WMS defined for the site

- After 5 min it will check the status of the jobs

  - Status « waiting » or «not available resources» define the CASE1 and CASE2

  - The corresponding WMS will be then removed from the list

ALICE AOB

- Require Nagios warning in case of proxy
  - Submitted to the expert, will be implemented for ALICE