JOB PRIORITIES WG

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ACKNOWLEDGMENTS

- I am reporting on behalf of the Job Priority WG
- For the work in the last weeks I want to thank several persons ...
- Simone Camapna, Andrea Sciaba, Jeff Templon, Di Quing, Gergely Debreczeni
- And others who participated in the discussion
 ...

INTRODUCTION

- We have presented last year a model to implement a simple strategy for Job Priorities based on the VOMS FAQN of the user certificate.
- While the principle seems straight forward, in the deployment several issues were found that have prevented a successful use of this model
- A strategy has been developed to address these problems

REMINDER: VO REQUIREMENTS

• Driven by ATLAS and CMS

• Few groups

- Example: ATLAS
 - Production, Users and Software managers
 - Simple rules (e.g. Production 80%, Priority for Software managers etc.)

• Aim

- Gain fast experience with a simple model
- Keep in mind that in the future a more complex model might be needed

JPWG MODEL

- Fair share between users on the batch system
- Several shares in the batch system for different groups. VOMS FAQN is used to transmit the group
- Publication of the use of the share in the Information System using the VOView mechanism
- gLite WMS uses this information to select the best site for a job

COMPLICATIONS

- First time use of VOMS certificate
- Interaction with the Data Management
 - Example LFC
 - Use of correct ACLs
 - Introduction of secondary groups
- Difference in the matching mechanism for VOMS FAQN used by the CE and the WMS
 - CE: LCMAPS mechanism
 - WMS: VOView mechanism
- Fixing the last problem requires not only software modification, but is also an deployment issue
 - Could not be done on the fly

REDISCUSSION

• What to do at this point

- Asked for input from the experiments
- Keep it really simple
- Have a minimal version operational fast
 - ATLAS production needs a solution as fast as possible

SEVERAL MEASURES

- Very short time
 - Remove all current configurations
- Short time
 - Implement an ad-hoc solution

Medium time

Look into other solution

New TCG input

- Concentrate on the short time
- For all other aspects the WG has been put to sleep
 - Waiting for the input from the Authorisation (Christoph)



 Three shares configured in the batch system and published using the VOView mechanism

Special share for Production

Access Rule: VOMS:/atlas/Role=production

Special share for Software Manager

Access Rule: VOMS:/atlas/Role=software

Catch all share for everybody else

Access Rule: VO:atlas

THE PROBLEM

For the WMS all shares enter like independent CE

 WMS does not know that they all belong together and LCMAPS will send the job to the right share

 Mismatch of the mechanism between the CE and the WMS

THE AD-HOC SOLUTION

Add DENY tags to the catch all share

• Production Share

VOMS:/atlas/Role=production

Software Share

VOMS:/atlas/Role=software

• Catch all Share

- VO:atlas
- DENY: /atlas/Role=production
- DENY: /atlas/Role=software

CRITISISM

- Evidently its not nice to introduce such an adhoc tag
 - We do not know how long we have to live with it
- But it is the only reasonable strategy
- The better solution requires a significant modification of the CE matching implementation
 - That cannot be done on a short time scale
 - The timescale would be very uncertain
- An document describing this solution and other aspects can be found on WG Wiki

Latest version with some updates

PRACTICAL ISSUES

 Modification the Dynamic Information provider

 Modification of yaim scripts to generate complex configuration scripts

Careful testing of the full configuration

HOW ARE WE FOLLOWING UP

- Tight loop between the yaim developers, grid deployment and the WG
 - Thanks for their effort!
- Test on the certification test bed are progressing
 - Several persons involved
 - Holiday, conferences etc ...
- If we are satisfied with the state on the certification testbed, we will move to preproduction

FINAL ISSUE

- Experiments are interested in a reasonable default batch system configuration
 - For example:
 - ${}_{\circ}$ Production share: ATLAS 80 %, CMS 50 %
 - If the sites accept, it would be great if also the batch system would be configured automatically
- Here we are crossing the border between Deployment and Operation
 - An understanding has still be obtained on how to achieve that



- The aim is still to obtain the model described last year
 - Uncertainties have been clarified
- Close work with grid deployment to obtain a proper configuration of sites
- Its clear that we have to move carefully
 - Certification testbed
 - Preproduction testbed
 - Production
- Each step has to be followed up with actual tests of the functionality