



Enabling Grids for
E-science in Europe

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First experiences testing the prototype

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current testing testbed based on EGEE GLITE prototype

- Cluster of RH 7.3.4 linux boxes
- AliEn (v 1.34-18)
 - Server - Core Services
 - GAS
 - UI
 - DB machine – File Catalog
 - CE , WN
- RLS
- **R-GMA monbox** – SRV (RAL)
- VOMS (NIKHEF)
- Storage Elements
 - Classic SE
 - **dCache**
 - Castor
- **No automatic installation tool – all manual**



encountered difficulties

- Documentation on the prototype
 - spread , sketchy notes available from different sources
 - we developed installation and configuration guides based on trial and error and some install logs and AliEn doc
- Synchronization with the prototype testbed :
 - A prototype procedure exists – difficulties to stick to it
 - CVS repository not yet fully populated
 - SCM autobuild not yet fully in place
- Process Cycle
 - initial resistance to
 - CVS tag – given the early stage of the prototype
 - regular RPM delivery
 - still difficult to identify a clear, unambiguous version of the prot.m/w
 - difficult to give a fully reliable, exact meaning to bug reporting and crosscheck bugs reported on the prototype testbed

First experience with the prototype

- AliEn components
 - V 1.34-16 installed on the testbed – after a lot of hand work on top of the provided tools
 - V 1.34-18 facing major difficulties with service deployment using RPMs :
 - Provided script fails
 - We want use official RPMs and not compile code from CVS
- Storage Elements
 - Installed Castor , **dCache**, Classic
 - Essentially untested on the testing testbed, basic tests on the prototype testbed

First experience with the prototype

- **RGMA**
 - the rpm does install, but the service does not start correctly.
 - seems to be designed to deploy with LCFGng
 - full manual installation and configuration not successful yet
 - Need clear & complete instructions from JRA1-UK
- **LRC**
 - Installs and configures fine.
- **New prototype CE**
 - The rpm does install, but the Condor service with modified files gives segmentation fault (need to test fix with IT/CZ cluster)

prototype behaviour and bugs

- Most **installation and configuration** issues reported during **testing testbed** set up
 - Lack or incorrectness of documentation
 - Dependencies on explicit versions of external packages
 - Failure of the configuration scripts
- Most **functionality** tests reported using the **prototype testbed**
- Some specific **individual component** tests performed on the **testing testbed** machines
- Currently (June 23) **5** bugs have been **closed**, **1** is **ready for integration**, **10** are **ready for test**, **19** are **open**
- Rich variety of bug issues : cannot log in, cannot register a file, scripts failing.

most relevant open install & config bugs

- dependencies on explicit or old versions of packages for the service configuration scripts [3811]
- no documentation to install the GAS machine [3795]
- twisted procedures to select the required services to be started on a machine [3813]
- failure looking for Perl and other tools during the build [3677]
- failure of the provided script to configure and start services on DB and CS machine [3839]

most relevant open **functionality** bugs

- cannot register a file in glite (loosing connection to the SE)
[3752, 3775 , 3778]
- CTRL-C does not stop script [3802]
- Incorrect system (Perl) error reported instead of error messages reflecting the real nature of the problem [3856]
 - **GENERAL ISSUE** in error reporting

further testing

- Need to exploit all provided functionality to understand how to structure and design our testcases and testsuite
 - GAS advanced features
 - Metadata handling
 - R-GMA behavior – whole branch of InfoSys untested
 - Heavy load the system (but few ARDA tests)

Savannah Bug Reporting System

- A couple of comments:
 - Can't do bug list by submitter
 - Cannot automatically re-assign bugs to specific users when status changes

Conclusions

- Some difficulties related to lack of complete, standard and up to date **documentation**
- Hard to keep synchronized with the prototype testbed if RPMs are not **promptly delivered at each prototype release cycle**
- Still major testing and validation on the whole prototype system carried out mostly on the prototype testbed
- We are really keen to see all m/w components integrated in the **standard SCM cycle**, to boost the availability of a complete release on our testbed.