



MUPJ - gLexec update

GDB 2011-05-11

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CERN

v1.0



Site	/ops/Role=pilot job + glexec test May 10	Capability
ASGC	OK	OK
BNL	OK for ATLAS	OK
CERN	OK	OK
CNAF	OK	OK
FNAL	OK for CMS	OK
IN2P3	OK	OK
KIT	OK	OK
NDGF	n/a	n/a
NIKHEF	OK	OK
PIC	OK	OK
RAL	OK	OK
SARA	OK	OK
TRIUMF	OK, but ticket has not been resolved yet	-



Nagios tests for “ops”

- LCG-CE
 - https://samnag023.cern.ch/nagios/cgi-bin/status.cgi?servicegroup=SERVICE_CE&style=detail
- CREAM
 - https://samnag023.cern.ch/nagios/cgi-bin/status.cgi?servicegroup=SERVICE_CREAM-CE&style=detail



Nagios tests for LHCb

Site	/lhcb/Role=pilot job + glexec test	May 10
CERN	One WN failed a test	
CNAF	OK	
IN2P3	OK	
KIT	OK	
NIKHEF	OK	
PIC	OK	
RAL	OK	
SARA	OK	

[https://sam-lhcb.cern.ch/nagios/cgi-bin/status.cgi?
servicegroup=SERVICE_CE&style=detail](https://sam-lhcb.cern.ch/nagios/cgi-bin/status.cgi?servicegroup=SERVICE_CE&style=detail)



Test status for ATLAS (Jose Caballero)

Site	/atlas/Role=pilot job + glexec test
ASGC	AuthZ error on WN
BNL	Tests stopped working, not yet investigated
CERN	Glexec mapping was OK, looks incorrect now
CNAF	Mapping OK, glexec results not yet reported
IN2P3	OK
KIT	OK
NDGF	n/a
NIKHEF	OK
PIC	OK
RAL	Not yet tested (mapping looks OK)
SARA	OK
TRIUMF	OK



Test results for CMS (Claudio Grandi)

Site	/cms/Role=pilot job + glexec test
ASGC	OK
CERN	OK
CNAF	OK
FNAL	OK – workaround needed for old glexec version
IN2P3	OK
KIT	OK, but perl Zlib problem not yet fixed (see next page)
NDGF	n/a
PIC	OK
RAL	OK



Findings and workarounds

- ATLAS

- myproxy.cern.ch does not support the use of VOMS attributes (/atlas/Role=pilot) in proxy retrieval policy
 - https://gus.fzk.de/ws/ticket_info.php?ticket=69965
 - Upgrade being planned, not yet urgent
- Workaround is to use a list of pilot submitter DNs
 - But the policy buffer is only 511 bytes (fixed in later versions)

- CMS

- Perl Zlib problem breaks standard glexec wrapper scripts
 - <https://savannah.cern.ch/bugs/?81070>
 - Depends on which repositories are used
- Temporary fix applied at PIC



Experiment plans

- LHCb
 - Preparing DIRAC code to report glxexec failures
 - Currently the pilot just carries on bypassing glxexec as needed
 - Tentative time line for first results would be end of May
- CMS
 - Prefer running tests and analysis jobs on T2 sites using CRAB
 - T1 pilot jobs sent via WMAgent have Role=production
 - Working T2 can be added to glideinWMS one by one
 - Most US T2 already in use and a few in Europe look ~ready
 - Nagios glxexec probe for CMS will help (being worked on)
 - Using CRAB for T1 also being considered
 - Some changes would be needed
- ATLAS
 - Continue debugging T1 tests



T2 gLExec deployment campaign

- Broadcasts sent to T2 lists and LCG-Rollout on May 2
 - Some site admins reacted, subscribed to mailing list
 - Very little change in the BDII so far
 - CEs should publish GlueCECapability glexec
 - GGUS tickets to be opened...
- <https://twiki.cern.ch/twiki/bin/view/LCG/GlexecDeployment>
- How to implement gLExec on the WN
 - CE capability + pilot role support
 - Argus
 - WN
 - Missing: relocated gLExec setup – may be needed
 - Recipe for building gLExec from source provided by NIKHEF