



MUPJ - gLexec update

GDB 2011-06-08

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CERN

v1.1



Site	/ops/Role=pilot job + glexec test	June 7	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		OK



Nagios tests for “ops”

- Note: after an upgrade of samnag023.cern.ch on June 7 these URLs are temporarily out of order, expected to work again soon.
- 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	June 7
CERN	OK	
CNAF	OK	
IN2P3	OK	
KIT	OK	
NIKHEF	OK	
PIC	OK	
RAL	- (only CREAM CEs for LHCb, not yet tested)	
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	June 7
ASGC	LCMAPS error on WN, should be fixed now	
BNL	Basic tests OK, Athena tests failed, not yet investigated	
CERN	OK, workaround applied for glexec mapping according to VOMS	
CNAF	OK	
IN2P3	OK	
KIT	OK	
NDGF	n/a	
NIKHEF	OK	
PIC	OK	
RAL	OK	
SARA	OK	
TRIUMF	OK	



Test results for CMS (Claudio Grandi)

Site	/cms/Role=pilot job + glexec test	June 7
ASGC	OK	
CERN	OK	
CNAF	OK	
FNAL	OK	
IN2P3	OK (T2 CEs not yet OK)	
KIT	OK	
NDGF	n/a	
PIC	OK	
RAL	OK	

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

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



Experiment plans (1/2)

- CMS
 - Conducting a poll of all CMS T2 to find out their plans to implement gLExec on the WN
 - 40% responded so far, many aiming for the end of June
 - Developed a generic realistic SAM glexec test
 - Run for LCG-CE, OSG-CE, ARC-CE and CREAM installations
 - Code available to other VOs, not specific to CMS
 - Will follow up test failures via CMS operations (Savannah)
 - Real work flow tests with Condor glideins fail on EGI sites
 - A socket connection gets reset unexpectedly
 - Glexec configured differently than in OSG: linger mode
 - Being debugged with help of Condor and gLExec developers



Experiment plans (2/2)

- LHCb
 - Prepared DIRAC code to report glexec failures
 - Still to be tested before being put in production
 - Then submit a small fraction of the pilots in this mode, check errors and efficiency
- ATLAS
 - Code using glexec included in pilot production version
 - Working OK at TRIUMF
 - Test at CERN got stuck, not yet investigated
 - Continue debugging T1 tests
- ALICE
 - Discussing with glexec developers if an LCMAPS plugin could determine the identity from a task's signature instead of a full proxy that otherwise is not needed



T2 gLExec deployment campaign

- Broadcasts sent to T2 lists and LCG-Rollout on May 2
 - No traffic on dedicated mailing list so far
 - Some went directly to the Argus support list
 - More sites now claiming glExec support in the BDII
 - 41 = 26 EGI + 15 OSG
 - Many not OK in Nagios
- <https://twiki.cern.ch/twiki/bin/view/LCG/GlExecDeployment>
 - How to implement gLExec on the WN
 - Example script for Argus configuration added
 - Provided by Antonio Delgado of CIEMAT
 - 2 bugs observed by sites
 - Argus does not yet support obsolete "CN=host/" in host DNs
 - Random timeouts may affect glExec calls to Argus