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Worker Node Configuration Database

Message Format

The message format complies to the GridMonitoringProbeSpecification. Additional the key-value pair `testName` has always to be present:

```
testName:<name of the test>
```

Besides there are a couple of common key-value pairs. Most of them will be created automatically:

key	auto	description	format	example
testId	x	Unique id for each test	32 hex	7dd4984b03115b34f7993439055f622f
testVersion	-	Version of the test	Major.Minor	1.0
hostname	x	Host name of the WN	URI	lxbra2108.cern.ch
hostid	x	Unique id for each host	32 hex	d965877f592d3fdf85d43a28e9dc8380
pyamqId	x	A unique id for each execution of the client	32 hex	30ff8d0689a5b23b0024bcf9746ceeb7
pyamqEncrypt	-	States whether a test was/will be encrypted	0 or 1	1
pyamqSubtopic	-	Adds a subtopic to the default destination	\w+(\.\w+)*	site.MySite
executionFile	-	File name which was/will be executed	file name	system_os
executionArguments	-	Arguments which will be passed to the execution file	arg1 arg2 ...	arg1
executionCommand	x	The command which was executed to get the test results	command	/path/to/test/system_os arg1
executionStarttime	x	Start time of a test	Timestamp	1234972037.6445301
executionEndtime	x	End time of a test	Timestamp	1234972037.650563
executionTime	x	Difference between start and end time	Float	0.0060329437255859375
summary	-	A short summary of the test used by the servers WebAdmin	Short String	ok

The key `detailsdata` is a special key. It must, if it exists, be the final line in the message. It usually contains log messages of the test, e.g.:

```
detailsdata:java version could not be gathered
java not found, try JAVA_HOME: /usr/java/jdk1.5.0_16
/usr/java/jdk1.5.0_16/bin/java: No such file or directory
exitcode:127
```

Tests

Scheduling

- Interval Scheduling
 - ◆ Run tests after a certain timeout is exceeded. (e.g 1 day)
- Probability Scheduling

- ◆ Run tests randomly with a certain probability. (e.g 0.2 means 20%)

Test Descriptions

This is a list of all tests, their type and a short description what they are doing. (besides internal tests)

name	type	description
wn_grid_afs	Python	Checks whether <code>/afs/cern.ch/</code> is mounted.
wn_grid_dteamdir	Python	Checks availability of the DTEAM Software Directory
wn_grid_gfal	Bash	GFAL version
wn_grid_glite	Bash	gLite version
wn_grid_infra	Python	GlueSiteUniqueId, GlueCEUniqueId, JobManagerType, BatchQueue
wn_grid_job	Python	JobId and JobContact
wn_grid_vo	Bash	VoName, VomsCapabilities, VomsGroup, VomsRole of the user
wn_grid_wn_info	Bash	GlueCEUniqueClusterId (dedicated to <code>glite-wn-info</code>)
wn_software_java	Bash	Java version
wn_software_perl	Bash	Perl version
wn_software_python	Python	Python version
wn_software_python_openssl	Python	Checks whether the python module OpenSSL is installed
wn_system_cpu	Bash	ProcessesTotal, ProcessesRunning, ProccesorCount, ProcessorCores, ProcessorLoad1, ProcessorLoad5, ProcessorLoad15, ProcessorClockSpeed, ProcessorVendor
wn_system_env	Python	Retrieves the system environment by calling <code>setenv</code>
wn_system_memory	Bash	HostMainMemoryRAMFree, GlueHostMainMemoryRAMSize, HostMainMemoryVirtualFree, GlueHostMainMemoryVirtualSize in MB
wn_system_network	Bash	Ping to <code>cern.ch</code> in milliseconds
wn_system_os	Bash	GlueHostOperatingSystemName, GlueHostOperatingSystemRelease, GlueHostOperatingSystemVersion, GlueHostArchitecturePlatformType
wn_system_timeoffset	Bash	Time offset using <code>ntpdate</code> in seconds

Deployment Status

These are the test which are currently deployed in PPS:

name	old alias	probability	interval	encrypted
wn_grid_afs	grid_sfs	1	-	-
wn_grid_dteamdir	grid_dteamdir	1	-	-
wn_grid_glite	grid_glite	1	-	x
wn_grid_infra	grid_infra	1	-	x
wn_grid_job	grid_job	1	-	x
wn_grid_vo	grid_vo	1	-	x
wn_software_java	version_java	0.2	-	x
wn_software_perl	version_perl	0.2	-	x
wn_software_python	version_python	1	-	x
wn_software_python_openssl	python_openssl	1	-	-
wn_system_cpu	system_cpu	1	-	x
wn_system_env	system_env	1	-	x
wn_system_memory	system_mem	1	-	x

wn_system_network	system_net	1	-	x
wn_system_os	system_os	1	-	x

Desired Status

This table shows whether a test should be deployed and how it should be scheduled.

Please edit

name	status	probability	interval	encrypted	note
wn_grid_afs	Prod	0.1	n.a.	-	
wn_grid_gfal	Prod	0.1	1 day	x	
wn_grid_glite	Prod	0.1	1 day	x	
wn_grid_infra	Prod	1	-	x	
wn_grid_job	Prod	1	-	x	
wn_grid_vo	Prod	1	-	x	
wn_grid_wn_info	Prod	0.1	1 day	x	
wn_software_java	Prod	0.1	1 day	x	
wn_software_perl	Prod	0.1	1 day	x	
wn_software_python	Prod	0.1	n.a.	x	
wn_software_python_openssl	-	-	-	-	unnecessary
wn_system_cpu	Prod	0.1	1 day	x	
wn_system_env	-	-	-	-	too sensible information
wn_system_memory	Prod	0.1	1 day	x	
wn_system_network	Prod	0.1	1 day	x	
wn_system_os	Prod	0.1	1 day	x	
wn_system_timeoffset	Prod	0.1	1 day	-	

Documentation

- Slides:
 - ◆ Grid Configuration Monitoring on WNs[?] at GDB (11 Feb 2009)
- Developer Guides:
 - ◆ Worker Node Client Documentation
 - ◆ Server and Database Documentation
 - ◆ Web Portal Documentation
- User Guide (Installation Instructions):
 - ◆ User Guide

Links

- Source Code:
 - <http://www.sysadmin.hep.ac.uk/svn/grid-monitoring/trunk/apps/grid-configuration-mon/>[?]
- Web Portal: <http://gridops.cern.ch/gcm/>[?]

Comments

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