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CREAM SLURM module v. 1.0.2 (EMI 3)

IGIRTC-182

Summary

- Product: **CREAM SLURM module v. 1.0.2**
- Release Task: CREAM SLURM module 1.0.2
- EMI Major Release: EMI 3 (Monte Bianco)
- Platform: SL5/SL6 & EPEL
- Outcome: In certification

Testing SL5

Deployment tests

Upgrade Installation PASSED

- EMI3 CREAM SLURM Module SL5 update and configuration Automatic Install & Upgrade .

System tests

Functionality tests INTESTING

```
$ /usr/bin/pybot -e job_man -e glue /opt/cream_test/testsuite/cream_test_suite.html
....
```

- Functionality testsuite log

Testing SL6

Deployment tests

Upgrade Installation PASSED

- EMI3 CREAM SLURM Module SL6 update and configuration SLURM_UPDATE_18.log .
- **IMPORTANT NOTE** - remember to add in Release Notes/Installation & Configuration:
 - ◆ In case you decided to exploit a shared file system:
 - ◇ edit the BLAH configuration file (/etc/blah.config) and add the `blah_shared_directories` parameter (N.B: the YAIM reconfiguration and the update of the `glite-ce-blahp` module don't preserve this manual modification) and restart `gLite` services:

```
# echo "blah_shared_directories=/home:/var/cream_sandbox" >> /etc/blah.conf
# service gLite restart
```

System tests

Functionality tests PASSED

```

$ pybot -e status -e job_man -e glue /opt/cream_test/testsuite/cream_test_suite.html
INFO: The files of this testsuite will be stored under:
/tmp/tmp5FpI9u.cream_testing/
=====
Cream Test Suite :: This is the main testing module,needed for testing the ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
Check Executables :: Check whether the needed executables for the ... | PASS |
-----
Simple Submit :: Execute /bin/uname -a.Submit the jdl and wait for... | PASS |
-----
ISB Base URI :: Execute a bash shell script.The script is stored i... | PASS |
-----
ISB Client to CE :: Execute a bash shell script.The script is stor... | PASS |
-----
ISB gsiftp to CE :: Execute a bash shell script.The script is stor... | PASS |
-----
OSB localhost :: Execute /bin/uname -a.Store std out and error str... | PASS |
-----
OSB gsiftp BaseDestURI :: Execute /bin/uname -a.Store std out and ... | PASS |
-----
OSB gsiftp DestURI :: Execute /bin/uname -a.Store std out and erro... | PASS |
-----
Environment :: Execute a bash shell script.The script is stored lo... | PASS |
-----
Epilogue :: Execute two bash shell scripts,one for the job and the... | PASS |
-----
Prologue :: Execute two bash shell scripts,one for the job and the... | PASS |
-----
Explicit Delegation :: Test job submission with explicit delegatio... | PASS |
-----
Job Cancel :: Test job cancellation.Two cases are tested:          | PASS |
-----
Job List :: Test the job listing cli utility.Store the list of the... | PASS |
-----
Job Suspend - Resume :: Submit a job and suspend it.Wait until it'... | PASS |
-----
Manually Cancel Job :: Submit a job and then manually cancel it on... | PASS |
-----
Verify CE service info :: This test case verifies the output of th... | PASS |
-----
Enable - Disable Submission :: This test case tests the proper fun... | PASS |
-----
Job Purge :: This test case verifies the proper functionality of t... | PASS |
-----
Limiter :: NOTE: This test case is about 25 minutes long!          | PASS |
-----
Ban User :: This test case tests if the banning of user works. The... | PASS |
-----
Sandbox Staging :: This test case tests the two different Sandbox ... | PASS |
-----
Automatic Proxy Purging :: This test case checks the automatic pro... | PASS |
-----
OutputData :: This test case tests the OutputData jdl attribute. T... | PASS |
-----
Automatic Job Purge :: This test case is testing the functionality... | PASS |
-----
Proxy Renewal :: Submit a job lasting 20 minutes using a proxy val... | PASS |
-----
CPU Allocation 1 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 2 :: Validate the contents of the batch job submiss... | PASS |

```

Functionality tests PASSED

```

-----
CPU Allocation 3 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 4 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 5 :: Validate the contents of the batch job submiss... | PASS |
-----
CPU Allocation 6 :: Validate the contents of the batch job submiss... | PASS |
-----
Resource BDII :: Check if the resource bdii publishes all the rele... | PASS |
-----
Logging and Bookkeeping :: Check if the logging and bookkeeping se... | PASS |
-----
Old BLParser Restart :: Configure a CREAM CE using the old blah bl... | PASS |
-----
Cream Test Suite :: This is the main testing module,needed for tes... | PASS |
36 critical tests, 36 passed, 0 failed
36 tests total, 36 passed, 0 failed

```

- Functionality testsuite log

Standard conformance tests

Glue 1 Compliance SLURM WARNING

- # glue-validator -H cert-08.pd.infn.it -p 2170 -b o=grid -s general -g glue1 -v 3
WARNING - errors 0, warnings 2, info 0 | errors=0;warnings=2;info=0

W037 Description: Wrong type
W037 Affected DN: GlueCEUniqueID=cert-08:8443/cream-slurm-creamtest
Mds-Vo-name=resource
o=grid
W037 Affected attribute: GlueCEInfoLRMSType
W037 Published value: ['slurm']
W037 Additional information: Expected type is lrms_t

W037 Description: Wrong type
W037 Affected DN: GlueServiceUniqueID=cert-08.pd.infn.it_org.glite.ce.CREAM_1483635535
Mds-Vo-name=resource
o=grid
W037 Affected attribute: GlueServiceEndpoint
W037 Published value: ['https://cert-08:8443/ce-cream/services']
W037 Additional information: Expected type is URL

Glue 2 Compliance SLURM - WARNING

- # glue-validator -H cert-08.pd.infn.it -p 2170 -b o=glue -s general -g glue2 -v 3
WARNING - errors 0, warnings 2, info 0 | errors=0;warnings=2;info=0

W037 Description: Wrong type
W037 Affected DN: GLUE2ResourceID=cert-08
GLUE2ServiceID=cert-08_ComputingElement
GLUE2GroupID=resource
o=glue
W037 Affected attribute: GLUE2ExecutionEnvironmentPlatform
W037 Published value: ['x86_64']
W037 Additional information: Expected type is Platform_t

W037 Description: Wrong type
W037 Affected DN: GLUE2EndpointID=cert-08_ComputingElement_org.glite.ce.ApplicationPublish
GLUE2ServiceID=cert-08_ComputingElement

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```
GLUE2GroupID=resource
o=glue
W037 Affected attribute: GLUE2EndpointInterfaceName
W037 Published value: ['org.glite.ce.ApplicationPublisher']
W037 Additional information: Expected type is InterfaceName_t

# glue-validator -g egi-glue2 -H cert-08.pd.infn.it -p 2170 -b o=glue -s egi-profile -n -v
WARNING - errors 0, warnings 4, info 47 | errors=0;warnings=4;info=47
Summary per type of error, warning and info message:
I043 - Memory higher than 100,000 MB (GLUE2ComputingShareMaxMainMemory): 5
I045 - Memory higher than 100,000 MB (GLUE2ComputingShareMaxVirtualMemory): 5
I063 - Total instances less than 10 (GLUE2ExecutionEnvironmentTotalInstances): 1
I095 - Recommended attribute not present (Several attributes): 36
W034 - Mandatory attribute not present (Several attributes): 3
W041 - Rpm used to publish implementation version does not exist (GLUE2EndpointImplementat
```

Regression Tests

Issue CREAM-142 FIXED

- Tested on SL6:
 - ◆ see log file attached: CREAM_SLURM_module_1.0.2_regression.txt

Issue CREAM-140 FIXED

- Tested on SL6:
 - ◆ see log file attached: CREAM_SLURM_module_1.0.2_regression.txt

This topic: IGIRelease > Issue182

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