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Testing report: IGIRTC #86

Summary

- Product: **Storm 1.8.3**
- Release Task: Task #30821
- ETICS Subsystem Configuration Name: **emi-storm_R_1_8_3_1**
- VCS Tag: BE_1.8.3-1, common_1.1.4-1, DIP-1.7.4-1, FE_1.7.3-2, GDSI_1.1.0-8, GHTTPSP_1.0.3-5, GHTTPS_1.0.5-3, Client_1.5.0-8, yaim-storm_4.1.9-1
- Release: EMI 1 (Kebnekaise)
- Platform: SL5/x86_64
- Author: C. Aiftimiei
- Testing report: see here
- Certification report: see here
- Date:
- Outcome:

Deployment tests

Clean Installation

- storm 1.8.3 installation log
- storm 1.8.3 configuration log

Upgrade Installation

- upgrade log
- storm 1.8.3 configuration log

Static Code Analysis

- Metrics Report

Unit Tests

- storm_1_8_3_UnitTest.log: storm 1.8.3 UnitTest log

System tests

Functionality tests

- Run sanity check test locally -
[[https://wiki-igi.cnaf.infn.it/twiki/pub/IGIRRelease/Task30821/tstorm_sanity_1_8_3_good.log][storm 1.8.3 sanity tests complete log

]]:

```
[root@cert-18 tstorm]# tstorm-sanity-tests  
test_glue_service (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok
```

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Ran 1 test in 0.027s

OK

test_gluetwo_storage_share_capacity (tstorm.tests.deployment.regression.gluetwo_ldapquery.GluetwoLdapQueryTest) ... ok

Ran 1 test in 0.015s

OK

test_glue_available_space_info_service (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok

Ran 1 test in 0.508s

OK

test_glue_available_space (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok

Ran 1 test in 0.312s

OK

test_glue_used_space (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok

Ran 1 test in 0.275s

OK

test_size (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok

Ran 1 test in 0.491s

OK

test_info_service_failure (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok

Ran 1 test in 0.744s

OK

test_gluetwo_endpoint_undefined (tstorm.tests.deployment.regression.gluetwo_ldapquery.GluetwoLdapQueryTest) ... ok

Ran 1 test in 0.003s

OK

test_gluetwo_storage_undefined (tstorm.tests.deployment.regression.gluetwo_ldapquery.GluetwoLdapQueryTest) ... ok

Ran 1 test in 0.003s

OK

test_gluetwo_endpoint (tstorm.tests.deployment.regression.gluetwo_ldapquery.GluetwoLdapQueryTest) ... ok

Ran 1 test in 0.003s

OK

test_backend_server_status (tstorm.tests.deployment.regression.service_configuration.RegistrationConfigurationTest) ... ok

Ran 1 test in 8.650s

OK

test_backend_logrotate_file (tstorm.tests.deployment.regression.service_configuration.RegistrationConfigurationTest) ... ok

Ran 1 test in 0.272s

Functionality tests

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OK

test_backend_gridhttps (tstorm.tests.deployment.regression.service_configuration.RegressionConfig

Ran 1 test in 3.956s

OK

test_yaim_version_file (tstorm.tests.deployment.regression.service_configuration.RegressionConfig

Ran 1 test in 15.510s

OK

test_size_in_namespace_file (tstorm.tests.deployment.regression.service_configuration.RegressionC

Ran 1 test in 0.201s

OK

test_gridhttps_plugin_links (tstorm.tests.deployment.regression.service_configuration.RegressionC

Ran 1 test in 0.301s

OK

test_backend_server_name_status (tstorm.tests.deployment.regression.service_configuration.Regress

Ran 1 test in 5.947s

OK

test_mysql_storage_space_update (tstorm.tests.deployment.regression.service_configuration.Regress

Ran 1 test in 320.764s

OK

test_mysql_connector_java_links (tstorm.tests.deployment.regression.service_configuration.Regress

Ran 1 test in 0.755s

OK

• Functionality tests - storm 1.8.3 functionality test complete log:

```
[aiftim@cert-25 tstorm]$ tstorm-tests
```

```
test_settings (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 1 test in 0.000s

OK

```
test_storm_ping (tstorm.tests.atomics.AtomicsTest) ... ok
```

Ran 1 test in 0.493s

OK

```
test_dd (tstorm.tests.utilities.UtilitiesTest) ... ok
```

```
test_ls_unexist_file (tstorm.tests.atomics.AtomicsTest) ... ok
```

```
test_mkdir_dir (tstorm.tests.atomics.AtomicsTest) ... ok
```

```
test_mkdir_exist_dir (tstorm.tests.atomics.AtomicsTest) ... ok
```

```
test_ls_dir (tstorm.tests.atomics.AtomicsTest) ... ok
```

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```
test_cp_bt (tstorm.tests.atomics.AtomicsTest) ... ok
test_ls_file (tstorm.tests.atomics.AtomicsTest) ... ok
test_cp_at (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_file (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_unexist_file (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_dir (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_unexist_dir (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 13 tests in 144.699s

```
OK
test_dd (tstorm.tests.utilities.UtilitiesTest) ... ok
test_cksm (tstorm.tests.functionalities.FunctionalitiesTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 3 tests in 46.166s

```
OK
test_dd (tstorm.tests.utilities.UtilitiesTest) ... ok
test_data_transfer_out_file (tstorm.tests.functionalities.FunctionalitiesTest) ... ok
test_data_transfer_out_exist_file (tstorm.tests.functionalities.FunctionalitiesTest) ... ok
test_data_transfer_in_file (tstorm.tests.functionalities.FunctionalitiesTest) ... ok
test_data_transfer_in_unexist_file (tstorm.tests.functionalities.FunctionalitiesTest) ... ok
test_rm_file (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_dir (tstorm.tests.atomics.AtomicsTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 8 tests in 97.498s

```
OK
test_cr_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
test_srm_transfer_outbound_https_voms (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_https_voms (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_https_voms_exist_file (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_https_voms (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_https_voms_no_auth (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_https_voms_unexist_file (tstorm.tests.https.HttpsTest) ... ok
test_srm_transfer_inbound_https_voms (tstorm.tests.https.HttpsTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 9 tests in 22.093s

```
OK
test_update_free_space_upon_rm (tstorm.tests.regression.RegressionTest) ... ok
```

Ran 1 test in 13.924s

```
OK
test_eight_digit_string_checksum (tstorm.tests.regression.RegressionTest) ... ok
```

Ran 1 test in 21.120s

```
OK
test_update_used_space_upon_pd (tstorm.tests.regression.RegressionTest) ... ok
```

Ran 1 test in 7.597s

```
OK
test_unsupported_protocols (tstorm.tests.regression.RegressionTest) ... ok
```

Functionality tests

```
-----  
Ran 1 test in 0.209s  
  
OK  
test_non_ascii_chars (tstorm.tests.regression.RegressionTest) ... ok  
  
-----  
Ran 1 test in 0.357s  
  
OK  
test_storm_backend_age (tstorm.tests.regression.RegressionTest) ... ok  
  
-----  
Ran 1 test in 0.185s  
  
OK  
test_storm_database_password (tstorm.tests.regression.RegressionTest) ... ok  
  
-----  
Ran 1 test in 5.840s  
  
OK  
test_storm_gridhttps_authorization_denied (tstorm.tests.regression.RegressionTest) ... ok  
  
-----  
Ran 1 test in 26.583s  
  
OK
```

Regression tests

Bug 285 - srmReserveSpace management produces spurious database entries : PASSED

- description of test: TestPlan 1.8.3]] pag 41 - Unique ID = 63b892
 ◆ test:

```
[aiftim@cert-25 ~]$ clientSRM ReserveSpace -e httpg://cert-18.pd.infn.it:8444 -d newSpaceToken -r  
=====  
Sending ReserveSpace request to: httpg://cert-18.pd.infn.it:8444  
Before execute:  
Afer execute:  
Request Status Code 0  
Poll Flag 0  
=====  
Request status:  
  statusCode="SRM_SUCCESS"(0)  
  explanation="Space Reservation done"  
=====  
SRM Response:  
  sizeOfTotalReservedSpace=1000000  
  sizeOfGuaranteedReservedSpace=1000000  
  lifetimeOfReservedSpace=2147483647  
  spaceToken="FB13713D-3D01-B600-C1CE-D2EB87D488CB"  
=====  
  
[root@cert-18 ~]# service storm-backend-server restart  
Stopping storm-backend-server [ OK ]  
Bootstrapping storm-backend-server [ OK ]  
  
[root@cert-18 ~]# service storm-backend-server status  
storm-backend-server (pid 20472) is RUNNING [ OK ]
```

Bug 286 - Configuration folders permissions : PASSED

- description of test: TestPlan 1.8.3]] pag 55 - Unique ID = 927b4a

◆ test:

```
[root@cert-18 ~]# useradd tempUser
[root@cert-18 ~]# id tempUser
uid=35906(tempUser) gid=35906(tempUser) groups=35906(tempUser)
[root@cert-18 ~]# su - tempUser
[tempUser@cert-18 ~]$ find /etc/storm/ -perm /o+r ! -type d | grep -v "web.xml" | grep -v "log4j"
[tempUser@cert-18 ~]$ echo $?
1
```

Bug 283 - Storage space database update time is not always set correctly : PASSED

- description of test: TestPlan 1.8.3]] pag 40 - Unique ID = 926745

◆ test:

```
[aiftim@cert-25 ~]$ clientSRM ReserveSpace -e httpg://cert-18.pd.infn.it:8444 -d newSpaceToken2 -
=====
Sending ReserveSpace request to: httpg://cert-18.pd.infn.it:8444
Before execute:
Afer execute:
Request Status Code 0
Poll Flag 0
=====
Request status:
  statusCode="SRM_SUCCESS"(0)
  explanation="Space Reservation done"
=====
SRM Response:
  sizeOfTotalReservedSpace=1000000
  sizeOfGuaranteedReservedSpace=1000000
  lifetimeOfReservedSpace=2147483647
  spaceToken="C50A893D-3D01-3F97-C1CE-D2EB79796871"
=====
```

```
[root@cert-18 ~]# mysql -u storm -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 36
Server version: 5.0.95 Source distribution
```

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```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> select UPDATE_TIME from storm_be_ISAM.storage_space where SPACE_TOKEN ='C50A893D-3D01-3F97
+-----+
| UPDATE_TIME          |
+-----+
| 2012-07-16 00:28:08 |
+-----+
1 row in set (0.18 sec)
```

Bug 284 - The execution of srmGetSpaceMetadata on a valid token produce a null pointer exception : PASSED

- description of test: TestPlan 1.8.3]] pag 40 - Unique ID = ba45e1

◆ test:

Bug 286 - Configuration folders permissions : PASSED

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```
[aiftim@cert-25 ~]$ clientSRM GetSpaceMetadata -e httpg://cert-18.pd.infn.it:8444 -s "C50A893D-3D01-3F97-C1CE-D2EB79796871"
=====
Sending GetSpaceMetaData request to: httpg://cert-18.pd.infn.it:8444
Before execute:
Afer execute:
Request Status Code 0
Poll Flag 0
=====
Request status:
  statusCode="SRM_SUCCESS" (0)
  explanation=""
=====
SRM Response:
  arrayOfSpaceDetails (size=1)
    [0] spaceToken="C50A893D-3D01-3F97-C1CE-D2EB79796871"
    [0] status: statusCode="SRM_SUCCESS" (0)
        explanation="Valid space token"
    [0] owner="/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Cristina Aiftimiei"
    [0] totalSize=1000000
    [0] guaranteedSize=1000000
    [0] unusedSize=1000000
    [0] lifetimeAssigned=2147483647
    [0] lifetimeLeft=2147483278
=====
```

Bug 293 - path-authz.db is not recognized as a configuration file : PASSED

- description of test: TestPlan 1.8.3]] pag 54 - Unique ID = 5e6c78
◆ test:

```
[root@cert-18 ~]# rpm -qc storm-backend-server | grep /etc/storm/backend-server/path-authz.db
/etc/storm/backend-server/path-authz.db
[root@cert-18 ~]# echo $?
0
```

Bug 282 - srmPrepareToPut returns the wrong error when a non existing space token is provided : PASSED

- description of test: TestPlan 1.8.3]] pag 39 - Unique ID = c396a1
◆ test:

◇ Wrong Space Token workflow :

```
[aiftim@cert-25 ~]$ clientSRM ptp -e httpg://cert-18.pd.infn.it:8444 -s srm://cert-18.pd.infn.it:8444
Sending PtP request to: httpg://cert-18.pd.infn.it:8444
Before execute:
Afer execute:
Request Status Code 17
Poll Flag 0
=====
Request status:
  statusCode="SRM_REQUEST_QUEUED" (17)
  explanation=""
=====
SRM Response:
  requestToken="5d49929a-5e51-4049-9912-30b0c3071f34"
  arrayOfFileStatuses (size=1)
    [0] SURL="srm://cert-18.pd.infn.it:8444/testers.eu-emi.eu/test_282"
    [0] status: statusCode="SRM_REQUEST_QUEUED" (17)
        explanation=""
=====
```

```
[aiftim@cert-25 ~]$ clientSRM sptp -e httpg://cert-18.pd.infn.it:8444 -t "5d49929a-5e51-4049-9912-30b0c3071f34"
=====
Sending StatusPtP request to: httpg://cert-18.pd.infn.it:8444
Before execute:
```

Bug 284 - The execution of srmGetSpaceMetadata on a valid token produce a null pointer exception : PASSED

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```
Afer execute:
Request Status Code 0
Poll Flag 0
=====
Request status:
  statusCode="SRM_SUCCESS" (0)
  explanation="All chunks successfully handled!"
=====
SRM Response:
  arrayOfFileStatuses (size=1)
    [0] SURL="srm://cert-18.pd.infn.it:8444/testers.eu-emi.eu/test_282"
    [0] status: statusCode="SRM_INVALID_REQUEST" (4)
           explanation="The provided Space Token does not exists"
    [0] estimatedWaitTime=-1
=====
```

- ◆ ◇ Expired Space Token workflow:

```
[aiftim@cert-25 ~]$ clientSRM ReserveSpace -e http://cert-18.pd.infn.it:8444 -d newSpaceToken3 -
=====
Sending ReserveSpace request to: http://cert-18.pd.infn.it:8444
Before execute:
Afer execute:
Request Status Code 0
Poll Flag 0
=====
Request status:
  statusCode="SRM_SUCCESS" (0)
  explanation="Space Reservation done"
=====
SRM Response:
  sizeOfTotalReservedSpace=1000000
  sizeOfGuaranteedReservedSpace=1000000
  lifetimeOfReservedSpace=10
  spaceToken="34DBC03D-3D01-E5C0-C1CE-D2EB1AC7E9F9"
=====
[aiftim@cert-25 ~]$ clientSRM GetSpaceMetadata -e http://cert-18.pd.infn.it:8444 -s "34DBC03D-3D01-E5C0-C1CE-D2EB1AC7E9F9"
=====
Sending GetSpaceMetaData request to: http://cert-18.pd.infn.it:8444
Before execute:
Afer execute:
Request Status Code 0
Poll Flag 0
=====
Request status:
  statusCode="SRM_SUCCESS" (0)
  explanation=""
=====
SRM Response:
  arrayOfSpaceDetails (size=1)
    [0] spaceToken="34DBC03D-3D01-E5C0-C1CE-D2EB1AC7E9F9"
    [0] status: statusCode="SRM_SPACE_LIFETIME_EXPIRED" (7)
           explanation="Expired space lifetime"
    [0] owner="/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Cristina Aiftimiei"
    [0] totalSize=1000000
    [0] guaranteedSize=1000000
    [0] unusedSize=1000000
    [0] lifetimeAssigned=10
    [0] lifetimeLeft=0
=====
[aiftim@cert-25 ~]$
[aiftim@cert-25 ~]$
[aiftim@cert-25 ~]$ clientSRM ptp -e http://cert-18.pd.infn.it:8444 -s srm://cert-18.pd.infn.it:
=====
Sending PtP request to: http://cert-18.pd.infn.it:8444
```

Bug 282 - srmPrepareToPut returns the wrong error when a non existing space token is provided : **BASSED**

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Before execute:

Afer execute:

Request Status Code 17

Poll Flag 0

Request status:

```
statusCode="SRM_REQUEST_QUEUED" (17)
explanation=""
```

SRM Response:

```
requestToken="e58a363e-e045-41e3-80a8-8a6f65b03c17"
arrayOfFileStatuses (size=1)
  [0] SURL="srm://cert-18.pd.infn.it:8444/testers.eu-emi.eu/test_282_bis"
  [0] status: statusCode="SRM_REQUEST_QUEUED" (17)
      explanation=""
```

```
[aiftim@cert-25 ~]$ clientSRM sptp -e httpg://cert-18.pd.infn.it:8444 -t "e58a363e-e045-41e3-80a8
```

Sending StatusPtP request to: httpg://cert-18.pd.infn.it:8444

Before execute:

Afer execute:

Request Status Code 7

Poll Flag 0

Request status:

```
statusCode="SRM_SPACE_LIFETIME_EXPIRED" (7)
explanation="Supplied SpaceToken has expired lifetime!"
```

SRM Response:

```
arrayOfFileStatuses (size=1)
  [0] SURL="srm://cert-18.pd.infn.it:8444/testers.eu-emi.eu/test_282_bis"
  [0] status: statusCode="SRM_SPACE_LIFETIME_EXPIRED" (7)
      explanation="The provided Space Token has expired its lifetime"
  [0] estimatedWaitTime=-1
```

Bug 290 - NamespaceFSvalidation check can fail if storage area root is specified as link : PASSED

- description of test: TestPlan 1.8.3]] pag 56 - Unique ID = 928b4e

◆ test:

```
[root@cert-18 ~]# ll /storage/
total 28
drwxr-x--- 2 storm storm 4096 Jul 16 00:04 dteam
drwxr-x--- 2 storm storm 4096 Jul 16 00:04 infngrid
lrwxrwxrwx 1 root  root   14 Jul 16 01:42 test -> /storage/dteam
drwxrwx---+ 2 storm storm 4096 Jul 16 01:32 testers.eu-emi.eu
drwxrwx---+ 2 storm storm 4096 Jul 16 00:04 testers.eu-emi.eu_https
drwxr-x--- 2 storm storm 4096 Jul 16 00:04 testers.eu-emi.eu_no_voms
```

```
[root@cert-18 ~]# tail -5 siteinfo/site-info.def
```

```
STORM_DTEAM_FSTYPE="gpfs"
STORM_DTEAM_ONLINE_SIZE=72
STORM_DTEAM_VONAME=dteam
STORM_DTEAM_ROOT="/storage/test"
```

```
[root@cert-18 ~]# /opt/glite/yaim/bin/yaim -d 6 -c -s /root/siteinfo/site-info.def -n se_storm_ba
[root@cert-18 ~]# service storm-backend-server stop
storm-backend-server already stopped [ OK ]
```

```
[root@cert-18 ~]# rm /var/log/storm/storm-backend.log -f
[root@cert-18 ~]# vi /etc/storm/backend-server/namespace.xml
<namespace xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="n
  <filesystems>
    <filesystem name="DTEAM-FS" fs_type="gpfs">
```

Bug 290 - NamespaceFSvalidation check can fail if storage area root is specified as link : PASSED

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```
<space-token-description>DTEAM_TOKEN</space-token-description>
<root>/storage/test</root>
<filesystem-driver>it.grid.storm.filesystem.swig.posixfs</filesystem-driver>
<spacesystem-driver>it.grid.storm.filesystem.MockSpaceSystem</spacesystem-driver>
<storage-area-authz>
  <fixed>permit-all</fixed>
</storage-area-authz>
[...]
[root@cert-18 ~]# rm /var/log/storm/storm-backend.log -f
[root@cert-18 ~]# vi /etc/storm/backend-server/logging.xml
[...]
  <logger name="it.grid.storm" additivity="false">
    <level value="DEBUG" />
    <appender-ref ref="DEBUGGING" />
  </logger>
[...]

[root@cert-18 ~]# service storm-backend-server start
Bootstrapping storm-backend-server                [ OK ]
StORMCommandServer on localhost:4444 is closed     [FAILED]

[root@cert-18 ~]# grep NamespaceFSAssociationCheck.getMountPointFSTypeBestmatch /var/log/storm/storm-backend.log
02:19:07.328 - DEBUG [main] [NamespaceFSAssociationCheck.getMountPointFSTypeBestmatch] - Retrieving
```

Bug 292 - Storage area roots does not belong to storm user : PASSED

- description of test: TestPlan 1.8.3]] pag 56 - Unique ID = f8911e
◆ test:

```
[root@cert-18 ~]# mkdir -p /storage/testers.eu-emi.eu_https/https
[root@cert-18 ~]# chown stomr:storm
[root@cert-18 ~]# chmod go-rx /storage/testers.eu-emi.eu_https/https
[root@cert-18 ~]# ll -d /storage/testers.eu-emi.eu_https/https
drwx----- 2 storm storm 4096 Jul 16 02:32 /storage/testers.eu-emi.eu_https/https
[root@cert-18 ~]# grep '/storage/testers.eu-emi.eu_https/https' siteinfo/site-info.def
STORM_TESTERSEUEMIEU_HTTPS_ROOT=/storage/testers.eu-emi.eu_https/https

[root@cert-18 ~]# /opt/glite/yaim/bin/yaim -d 6 -c -s /root/siteinfo/site-info.def -n se_storm_backend
[root@cert-18 ~]# getfacl --tabular /storage/testers.eu-emi.eu_https/https | grep GROUP | awk '{p
getfacl: Removing leading '/' from absolute path names
r--
[root@cert-18 ~]# echo $?
0
```

This topic: IGIRelease > Task30821

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