

Table of Contents

Testing report: IGIRTC #22	1
Summary.....	1
Deployment tests.....	1
Clean Installation.....	1
Upgrade Installation.....	1
Unit Tests.....	1
System tests.....	1
Functionality tests.....	1
Regression tests.....	6
Verification attached bugs (which are not part of the automatic tests).....	6
BUG #195: logrotate and cron.d task FIXED.....	6
BUG #196: logrotate and cron.d task FIXED.....	7
BUG #228: Null pointer in DAO usage FIXED.....	7
BUG #231: BE restart sometimes fail HOPEFULLY FIXED.....	8

Testing report: IGIRTC #22

Summary

- Product: **Storm 1.8.2**
- Release Task: Task #25353
- ETICS Subsystem Configuration Name: **emi-storm_R_1_8_2_1_RC**
- VCS Tag: *BE_1.8.2-2, common_1.1.3-1, FE_1.7.3-1* and *yaim-storm_4.1.8-1*
- EMI Major Release: EMI 1 (Kebnekaise)
- Platform: SL5 epel
- Author: Alessio Gianelle
- Testing report:
- Certification report:
- Outcome: CERTIFIED

Deployment tests

Clean Installation

We use two hosts, one for the FE and the other for BE, globus-gridftp and gridhttps

- Installation log file
- Configuration log file

Upgrade Installation

We use two hosts, one for the FE and the other for BE, globus-gridftp and gridhttps

- Update log file
- Configuration log file
- TestSuite log file

Unit Tests

???

System tests

Functionality tests

```
[ale@cream-12 tstorm-1.2.0-5]$ tstorm-tests
test_settings (tstorm.tests.utilities.UtilitiesTest) ... ok
```

```
-----
Ran 1 test in 0.001s
```

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

```
-----
Ran 1 test in 0.142s
```

```
OK
```

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```
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
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 39.912s

```
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 12.469s

```
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 33.506s

```
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 6.293s

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

Ran 1 test in 3.151s

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

Ran 1 test in 2.895s

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

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Ran 1 test in 7.057s

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

Ran 1 test in 0.062s

OK
test_non_ascii_chars (tstorm.tests.regression.RegressionTest) ... ok

Ran 1 test in 0.124s

OK
test_storm_backend_age (tstorm.tests.regression.RegressionTest) ... ok

Ran 1 test in 0.064s

OK
test_storm_database_password (tstorm.tests.regression.RegressionTest) ... ok

Ran 1 test in 2.666s

OK
test_storm_gridhttps_authorization_denied (tstorm.tests.regression.RegressionTest) ... ok

Ran 1 test in 1.606s

OK

Complete log file are here

- Tests without voms extension

```
[ale@cream-12 tstorm-1.2.0-5]$ voms-proxy-init  
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle  
Creating proxy ..... Done
```

Your proxy is valid until Thu Feb 9 00:00:52 2012

```
[ale@cream-12 tstorm-1.2.0-5]$ voms-proxy-info -all  
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy  
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle  
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle  
type      : proxy  
strength  : 1024 bits  
path      : /tmp/x509up_u500  
timeleft  : 11:59:55  
key usage : Digital Signature, Key Encipherment, Data Encipherment
```

```
[ale@cream-12 tstorm-1.2.0-5]$ tstorm-tests --novoms  
test_settings (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 1 test in 0.001s

OK
test_cr_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
test_srm_transfer_outbound_http (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_http (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_http_exist_file (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_http (tstorm.tests.https.HttpsTest) ... ok

Functionality tests

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```
test_direct_transfer_inbound_http_unexist_file (tstorm.tests.https.HttpsTest) ... ok
test_srm_transfer_inbound_http (tstorm.tests.https.HttpsTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 8 tests in 6.068s

OK

```
test_cr_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
test_srm_transfer_outbound_https (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_https (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_outbound_https_exist_file (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_https (tstorm.tests.https.HttpsTest) ... ADD UID for test_direct_tra
ok
test_direct_transfer_inbound_https_no_auth (tstorm.tests.https.HttpsTest) ... ok
test_direct_transfer_inbound_https_unexist_file (tstorm.tests.https.HttpsTest) ... ok
test_srm_transfer_inbound_https (tstorm.tests.https.HttpsTest) ... ok
test_rm_lf (tstorm.tests.utilities.UtilitiesTest) ... ok
```

Ran 9 tests in 6.445s

OK

```
test_get_space_metadata_failure (tstorm.tests.regression.RegressionTest) ... ok
```

Ran 1 test in 0.106s

OK

Complete log file are here

- Configuration tests

Run on the BE host

```
[root@cream-51 tstorm-1.2.0-5]# tstorm-sanity-tests
test_glue_service (tstorm.tests.deployment.regression.ldapquery.LdapTest) ... ok
```

Ran 1 test in 0.002s

OK

```
test_gluetwo_storage_share_capacity (tstorm.tests.deployment.regression.gluetwo_ldapquery.Gluetwo
```

Ran 1 test in 0.002s

OK

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

Ran 1 test in 0.112s

OK

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

Ran 1 test in 0.157s

OK

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

Ran 1 test in 0.090s

Functionality tests

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OK

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

Ran 1 test in 0.101s

OK

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

Ran 1 test in 0.041s

OK

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

Ran 1 test in 0.001s

OK

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

Ran 1 test in 0.001s

OK

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

Ran 1 test in 0.001s

OK

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

Ran 1 test in 0.216s

OK

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

Ran 1 test in 0.007s

OK

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

Ran 1 test in 0.225s

OK

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

Ran 1 test in 0.491s

OK

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

Ran 1 test in 0.016s

OK

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

Ran 1 test in 0.024s

OK

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

Ran 1 test in 0.234s

OK

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

Ran 1 test in 111.748s

OK

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

Ran 1 test in 0.017s

OK

Complete log file are here

Regression tests

Verification attached bugs (which are not part of the automatic tests)

BUG #195: logrotate and cron.d task **FIXED**

```
[root@cream-51 ~]# dd if=/dev/zero of=big_file.txt bs=53477376 count=1
1+0 records in
1+0 records out
53477376 bytes (53 MB) copied, 0.103273 seconds, 518 MB/s
```

```
[root@cream-51 ~]# ls -lh big_file.txt
-rw-r--r-- 1 root root 51M Feb  8 13:59 big_file.txt
```

```
[root@cream-51 ~]# cat big_file.txt >> /var/log/storm/storm-backend.stderr
[root@cream-51 ~]# cat big_file.txt >> /var/log/storm/storm-backend.stdout
```

```
[root@cream-51 ~]# ls -lh /var/log/storm/storm-backend.std*
-rw----- 1 storm storm 52M Feb  8 14:00 /var/log/storm/storm-backend.stderr
-rw----- 1 storm storm 52M Feb  8 14:00 /var/log/storm/storm-backend.stdout
```

```
[root@cream-51 ~]# vi /etc/crontab
[root@cream-51 ~]# service crond restart
Stopping crond: [ OK ]
Starting crond: [ OK ]
```

```
[root@cream-51 ~]# ls -lh /var/log/storm/storm-backend.std*
-rw----- 1 storm storm  0 Feb  8 14:03 /var/log/storm/storm-backend.stderr
-rw----- 1 storm storm 52K Feb  8 14:03 /var/log/storm/storm-backend.stderr-20120208.gz
-rw----- 1 storm storm  0 Feb  8 14:03 /var/log/storm/storm-backend.stdout
-rw----- 1 storm storm 55K Feb  8 14:03 /var/log/storm/storm-backend.stdout-20120208.gz
```

```
[root@cream-51 ~]# /etc/init.d/storm-backend-server restart
Stopping storm-backend-server [ OK ]
Bootstrapping storm-backend-server [ OK ]
Starting storm-backend-server [ OK ]
[root@cream-51 ~]# ls -lh /var/log/storm/storm-backend.std*
-rw----- 1 storm storm  0 Feb  8 14:03 /var/log/storm/storm-backend.stderr
-rw----- 1 storm storm 52K Feb  8 14:03 /var/log/storm/storm-backend.stderr-20120208.gz
-rw----- 1 storm storm 15K Feb  8 14:03 /var/log/storm/storm-backend.stdout
-rw----- 1 storm storm 55K Feb  8 14:03 /var/log/storm/storm-backend.stdout-20120208.gz
```

BUG #196: logrotate and cron.d task FIXED

```
[root@cert-18 ~]# dd if=/dev/zero of=big_file.txt bs=53477376 count=1
1+0 records in
1+0 records out
53477376 bytes (53 MB) copied, 0.231383 seconds, 231 MB/s

[root@cert-18 ~]# ls -lh big_file.txt
-rw-r--r-- 1 root root 51M Feb  8 13:44 big_file.txt

[root@cert-18 ~]# cat big_file.txt >> /var/log/storm/storm-frontend-server.log
[root@cert-18 ~]#

[root@cert-18 ~]# ls -lh /var/log/storm/
total 53M
-rw-r--r-- 1 storm storm 52M Feb  8 13:45 storm-frontend-server.log

[root@cert-18 ~]# vi /etc/crontab
[root@cert-18 ~]# /etc/init.d/crond restart
Stopping crond:                [ OK ]
Starting crond:                [ OK ]

[root@cert-18 ~]# ls -lh /var/log/storm/
total 116K
-rw-r--r-- 1 storm storm    0 Feb  8 13:52 storm-frontend-server.log
-rw-r--r-- 1 storm storm 112K Feb  8 13:52 storm-frontend-server.log-20120208.gz

[ale@cream-12 tstorm-1.2.0-5]$ /opt/d-cache/srm/bin/srmping -2 srm://cert-18.pd.infn.it:8444/
VersionInfo : v2.2
backend_type:StoRM
backend_version:<FE:1.7.3-1><BE:1.8.2-2>
backend_os_distribution:Scientific Linux SL release 5.7 (Boron)

[root@cert-18 ~]# tail -f /var/log/storm/storm-frontend-server.log

02/08 13:52:54 0x1eef16c0 main: AUDIT - Active tasks: 0
02/08 13:52:54 0x1eef16c0 main: AUDIT - Pending tasks: 1
02/08 13:52:55 0x1ef61b70 Ping: Received Ping request from: /C=IT/O=INFN/OU=Personal Certificate/
02/08 13:52:55 0x1ef61b70 Ping: UserDN=/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio G
02/08 13:52:55 0x1ef61b70 Ping: Client IP=::ffff:193.206.210.167
02/08 13:52:55 0x1ef61b70 Ping: Number of FQANs: 1
02/08 13:52:55 0x1ef61b70 Ping: Request done.
```

BUG #228: Null pointer in DAO usage FIXED

```
[root@cream-51 ~]# vi /etc/storm/backend-server/storm.properties
[root@cream-51 ~]# service storm-backend-server restart
Stopping storm-backend-server [ OK ]
Bootstrapping storm-backend-server [ OK ]
Starting storm-backend-server [ OK ]

[root@cream-51 ~]# service mysqld stop
Stopping MySQL:                [ OK ]

[ale@cream-12 tstorm-1.2.0-5]$ srmls srm://cert-18.pd.infn.it:8444/srm/managerv2?SFN=/testers.eu-
1048576 /testers.eu-emi.eu/a1328612878.0/b1328612878.0/tstorm-output-file-1328612870.0.txt

[root@cream-51 ~]# tail -f /var/log/storm/storm-backend.log
15:10:13.091 - ERROR [XML-RPC-0] - PtP CHUNK DAO: numberInSRM_SPACE_AVAILABLE - unable to get a v
15:10:13.092 - INFO [XML-RPC-0] - srmLs: <Grid User (VOMS) = DN:'C=IT, O=INFN, OU=Personal Certi
15:10:13.961 - ERROR [Timer-5] - REQUEST SUMMARY DAO! Exception in setUpConnection! com.mysql.jdbc
```

BUG #195: logrotate and cron.d task FIXED

The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received

BUG #231: BE restart sometimes fail HOPEFULLY FIXED

```
[root@cream-51 ~]# service storm-backend-server restart
Stopping storm-backend-server [ OK ]
Bootstrapping storm-backend-server [ OK ]
Starting storm-backend-server [ OK ]
[root@cream-51 ~]# service storm-backend-server restart
Stopping storm-backend-server [ OK ]
Bootstrapping storm-backend-server [ OK ]
Starting storm-backend-server [ OK ]
```

This topic: IGIRelease > Task25353Fake

Topic revision: r5 - 2012-03-01 - AlessioGianelle



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