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Installation and Configuration

DPM Head node

Clean install

- INSTALL_CLEAN_HEAD5.txt: DPM Head Node Clean Install
- CONFIG_CLEAN_HEAD5.txt: DPM Head Node Clean Config

Upgrade from Production

- INSTALL_PROD_HEAD5.txt: DPM Head Node Prod Install
- CONFIG_PROD_HEAD5.txt: DPM Head Node Prod config
- INSTALL_UPGR_HEAD5.txt: DPM Head Node, Certification upgrade
- CONFIG_UPGR_HEAD5.txt: DPM Head Node, Cert config

DPM Disk node

Clean install

- INSTALL_CLEAN_DISK5.txt: DPM Disk Node Clean Install
- CONFIG_CLEAN_DISK5.txt: DPM Disk Node Clean Config

Upgrade from Production

- INSTALL_PROD_DISK5.txt: DPM Disk Node Prod Install
- CONFIG_PROD_DISK5.txt: DPM Disk Node Prod Config
- INSTALL_UPGR_DISK5.txt: DPM Disk Node, Certification upgrade
- CONFIG_UPGR_DISK5.txt: DPM Disk Node, Cert Config

LFC node Oracle

Clean install

- INSTALL_CLEAN_LFC5o.txt: LFC Node Oracle, Clean Install
- CONFIG_CLEAN_LFC5o.txt: LFC Node Oracle, Clean Config

Upgrade from production

- INSTALL_PROD_LFC5o.txt: LFC Node Oracle, Prod Install
- CONFIG_PROD_LFC5o.txt: LFC Node Oracle, Prod Config
- INSTALL_UPGR_LFC5o.txt: LFC Node Oracle, Certification Upgrade
- CONFIG_UPGR_LFC5o.txt: LFC Node Oracle, Cert Config

LFC node

Clean install

- INSTALL_CLEAN_LFC5m.txt: LFC Node MySQL, Clean Install
- CONFIG_CLEAN_LFC5m.txt: LFC Node MySQL, Clean config

Upgrade from production

- INSTALL_PROD_LFC5m.txt: LFC Node Mysql, Prod Install
- CONFIG_PROD_LFC5m.txt: LFC Node Mysql, Prod Config
- INSTALL_UPGR_LFC5m.txt: LFC Node Mysql, Cert Upgrade
- CONFIG_UPGR_LFC5m.txt: LFC Node Mysql, Cert Config

Information System

- IS_HEAD5_CLEAN_BASE.txt: DPM Head Infosys Base
- IS_HEAD5_CLEAN_PUBS.txt: DPM Head Infosys Public Space
- IS_LFC64m_CLEAN.txt: LFC Mysql Infosys
- IS_LFC64o_CLEAN.txt: LFC Oracle Infosys

DPM Testsuite

Run in the different configuration. Results as follow.

dpns_rewinddir failure is a known bug: <https://savannah.cern.ch/bugs/?65514>

```
[shoo@ui32 DPM]$ ./DPM-certtest.sh
-----
START: Fri Jun 25 11:01:31 CEST 2010

- CLIENT RPMS installed -
DPM-client-1.7.3-1sec.slc4
DPM-httpd-client-1.2.1-2sec.slc4
DPM-interfaces-1.7.3-1sec.slc4
DPM-interfaces2-1.7.3-1sec.slc4
LFC-client-1.7.3-1sec.slc4
LFC-interfaces-1.7.3-1sec.slc4
```

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LFC-interfaces2-1.7.3-1sec.sl4
lcg-dm-common-1.7.3-1sec.sl4

- SERVER RPMS installed -

DPM-DSI-1.7.4-4sec.sl5
DPM-copy-server-mysql-1.7.4-7sec.sl5
DPM-httpd-1.2.2-2sec.sl5
DPM-httpd-cgi-1.3.2-3sec.sl5
DPM-httpd-client-1.2.1-3sec.sl5
DPM-name-server-mysql-1.7.4-7sec.sl5
DPM-rfio-server-1.7.4-7sec.sl5
DPM-server-mysql-1.7.4-7sec.sl5
DPM-srm-server-mysql-1.7.4-7sec.sl5
DPM-xrootd-2.1.4-1sec.sl5

- Other settings -

VO used: org.glite.voms-test
LFC Host: lfc64o.cern.ch
DPM Host: head5.cern.ch
DPNS Host: head5.cern.ch

*Executing Service PING tests

Target node is head64.cern.ch. Date: Fri Jun 25 11:01:33 CEST 2010

Testing the default DPM services:

Testing service rfiiod on port 5001	[OK]
Testing service mysqld on port 3306	[OK]
Testing service dpnsdaemon on port 5010	[OK]
Testing service dpm on port 5015	[OK]
Testing service bdii on port 2170	[OK]
Testing service sshd on port 22	[OK]
Testing service srmv1 on port 8443	[OK]
Testing service srmv2.2 on port 8446	[OK]
Testing service globus-gridftp on port 2811	[OK]

Overall Service Ping test result: [OK]

*Executing DPNS CLI tests

Executing CLI-dpns-chgrp
CLI-dpns-chgrp PASSED

Executing CLI-dpns-chown
CLI-dpns-chown PASSED

Executing CLI-dpns-mkdir
CLI-dpns-mkdir PASSED

Executing CLI-dpns-chmod
CLI-dpns-chmod PASSED

Executing CLI-dpns-ls
CLI-dpns-ls PASSED

Executing CLI-dpns-ln
CLI-dpns-ln PASSED

Executing CLI-dpns-rm
CLI-dpns-rm PASSED

Executing CLI-dpns-rename
CLI-dpns-rename PASSED

Executing CLI-dpns-getacl
CLI-dpns-getacl PASSED

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Executing CLI-dpns-setacl
CLI-dpns-setacl PASSED

Executing CLI-dpns-usrmap
CLI-dpns-usrmap PASSED

Executing CLI-dpns-grpmap
CLI-dpns-grpmap PASSED

Executing CLI-dpns-ping
CLI-dpns-ping PASSED
OVERALL RESULT: SUCCESS

*Executing DPM CLI tests

Executing dpm-drain
dpm-drain PASSED

Executing dpm-adddfs
dpm-adddfs PASSED

Executing dpm-getspacetokens
dpm-getspacetokens PASSED

Executing dpm-modifypool
dpm-modifypool PASSED

Executing dpm-reservespace
dpm-reservespace PASSED

Executing dpm-rmpool
dpm-rmpool PASSED

Executing dpm-addpool
dpm-addpool PASSED

Executing dpm-getspacemd
dpm-getspacemd PASSED

Executing dpm-modifyfs
dpm-modifyfs PASSED

Executing dpm-releasespace
dpm-releasespace PASSED

Executing dpm-rmfs
dpm-rmfs PASSED

Executing dpm-updatespace
dpm-updatespace PASSED
OVERALL RESULT: SUCCESS

*Executing DPNS-API-C tests

Compiling item
Executing DPNS_aborttrans
DPNS_aborttrans PASSED

Compiling item
Executing DPNS_rewinddir
DPNS_rewinddir FAILED

Compiling item
Executing DPNS_addreplica
DPNS_addreplica PASSED

Compiling item
Executing DPNS_chdir
DPNS_chdir PASSED

Compiling item
Executing DPNS_chmod
DPNS_chmod PASSED

Compiling item
Executing DPNS_closedir
DPNS_closedir PASSED

Compiling item
Executing DPNS_delreplica
DPNS_delreplica PASSED

Compiling item
Executing DPNS_endtrans
DPNS_endtrans PASSED

Compiling item
Executing DPNS_getacl
DPNS_getacl PASSED

Compiling item
Executing DPNS_opendir
DPNS_opendir PASSED

Compiling item
Executing DPNS_readdir
DPNS_readdir PASSED

Compiling item
Executing DPNS_session
DPNS_session PASSED

Compiling item
Executing DPNS_setacl
DPNS_setacl PASSED

Compiling item
Executing DPNS_setatime
DPNS_setatime PASSED

Compiling item
Executing DPNS_setfsize
DPNS_setfsize PASSED

Compiling item
Executing DPNS_setfsizec
DPNS_setfsizec PASSED

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Compiling item
Executing DPNS_setptime
DPNS_setptime PASSED

Compiling item
Executing DPNS_setratime
DPNS_setratime PASSED

Compiling item
Executing DPNS_setrltime
DPNS_setrltime PASSED

Compiling item
Executing DPNS_setrstatus
DPNS_setrstatus PASSED

Compiling item
Executing DPNS_setrtype
DPNS_setrtype PASSED

Compiling item
Executing DPNS_symlink
DPNS_symlink PASSED

Compiling item
Executing DPNS_umask
DPNS_umask PASSED

Compiling item
Executing DPNS_utime
DPNS_utime PASSED

OVERALL RESULT: FAILURE

The following tests have failed:

DPNS_rewinddir: results in tests/dpns-api-c/DPNS_rewinddir_result.txt

*Executing DPNS-API-PYTHON tests

Executing dpns_getreplica.sh
dpns_getreplica.sh PASSED
OVERALL RESULT: FAILURE

The following tests have failed:

*Executing RFIO tests

Executing DPM-test-rfio-cli.sh

Target node is head64.cern.ch. Fri Jun 25 11:12:47 CEST 2010

Launching RFIO CLI tests:

Creating directory	[rfmkdir]	[OK]
Copying file	[rfcop]	[OK]
Reading file	[rfcats]	[OK]
Renaming file	[rfrname]	[OK]
Accessing file	[rfstat]	[OK]
Changing permission	[rfstat]	[OK]
Removing file	[rfrm]	[OK]
Permission denied	[rfmkdir]	[OK]
Removing dir	[rfrname]	[OK]

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Overall RFIO CLI test result: [OK]

*Executing DPM INFOSYS tests

Target node is head64.cern.ch. Date: Fri Jun 25 11:12:52 CEST 2010

Testing the Information System:

Resource BDII port is open: [OK]
Resource BDII bind string: [OK]
AccessProtocol rfio published: [OK]
AccessProtocol gsiftp published: [OK]
ControlProtocol srmv1 published: [OK]
ControlProtocol srmv2 published: [OK]
Service httpg://head64.cern.ch:8443/srm/managerv1 published: [OK]
Service httpg://head64.cern.ch:8446/srm/managerv2 published: [OK]
AccessControlRule published backward compatible way: [OK]
Unconfigured or default attributes present: [OK]

Overall Information System test result: [OK]

END: Fri Jun 25 11:12:52 CEST 2010

OVERALL RESULT: FAILURE

DM Testsuite

```
[shoo@ui32 DM]$ ./DM-certtest.sh
Using ./DM-certconfig
DPM HOST: head5.cern.ch
WARNING: no dCache host selected
CASTOR HOST: head32.cern.ch
WARNING: no STORM host selected
LFC HOST: lfc64m.cern.ch
LFC host is: lfc64m.cern.ch
START Fri Jun 25 17:19:37 CEST 2010
```

```
-----
**Running LCG_UTILS tests**
*Target SE is head64.cern.ch
Executing DM-lcg-alias.sh
DM-lcg-alias.sh PASSED
Executing DM-lcg-cp-gsiftp.sh
DM-lcg-cp-gsiftp.sh PASSED
Executing DM-lcg-cp.sh
DM-lcg-cp.sh PASSED
Executing DM-lcg-cr-gsiftp.sh
DM-lcg-cr-gsiftp.sh PASSED
Executing DM-lcg-cr.sh
DM-lcg-cr.sh PASSED
Executing DM-lcg-list.sh
DM-lcg-list.sh PASSED
Executing DM-lcg-ls.sh
DM-lcg-ls.sh PASSED
Executing DM-lcg-rf.sh
DM-lcg-rf.sh PASSED
Executing DM-lcg-rep.sh
DM-lcg-rep.sh PASSED
Executing DM-lcg-get-checksum.sh
DM-lcg-get-checksum.sh PASSED
*Target SE is head32.cern.ch
Executing DM-lcg-alias.sh
```

DM Testsuite

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```
DM-lcg-alias.sh PASSED
Executing DM-lcg-cp-gsiftp.sh
DM-lcg-cp-gsiftp.sh PASSED
Executing DM-lcg-cp.sh
DM-lcg-cp.sh PASSED
Executing DM-lcg-cr-gsiftp.sh
DM-lcg-cr-gsiftp.sh PASSED
Executing DM-lcg-cr.sh
DM-lcg-cr.sh PASSED
Executing DM-lcg-list.sh
DM-lcg-list.sh PASSED
Executing DM-lcg-ls.sh
DM-lcg-ls.sh PASSED
Executing DM-lcg-rf.sh
DM-lcg-rf.sh PASSED
Executing DM-lcg-rep.sh
DM-lcg-rep.sh PASSED
Executing DM-lcg-get-checksum.sh
DM-lcg-get-checksum.sh PASSED
**Running SAME tests**
TEST_PASSED
```

```
[shoo@ui32 DM]$ ./DM-certtest.sh
Using ./DM-certconfig
DPM HOST: head32.cern.ch
WARNING: no dCache host selected
CASTOR HOST: head64.cern.ch
WARNING: no STORM host selected
LFC HOST: lfc64m.cern.ch
LFC host is: lfc64m.cern.ch
START Fri Jun 25 14:55:17 CEST 2010
```

```
-----
**Running LCG_UTILS tests**
*Target SE is head5.cern.ch
Executing DM-lcg-alias.sh
DM-lcg-alias.sh PASSED
Executing DM-lcg-cp-gsiftp.sh
DM-lcg-cp-gsiftp.sh PASSED
Executing DM-lcg-cp.sh
DM-lcg-cp.sh PASSED
Executing DM-lcg-cr-gsiftp.sh
DM-lcg-cr-gsiftp.sh PASSED
Executing DM-lcg-cr.sh
DM-lcg-cr.sh PASSED
Executing DM-lcg-list.sh
DM-lcg-list.sh PASSED
Executing DM-lcg-ls.sh
DM-lcg-ls.sh PASSED
Executing DM-lcg-rf.sh
DM-lcg-rf.sh PASSED
Executing DM-lcg-rep.sh
DM-lcg-rep.sh PASSED
Executing DM-lcg-get-checksum.sh
DM-lcg-get-checksum.sh PASSED
*Target SE is head64.cern.ch
Executing DM-lcg-alias.sh
DM-lcg-alias.sh PASSED
Executing DM-lcg-cp-gsiftp.sh
DM-lcg-cp-gsiftp.sh PASSED
Executing DM-lcg-cp.sh
DM-lcg-cp.sh PASSED
Executing DM-lcg-cr-gsiftp.sh
DM-lcg-cr-gsiftp.sh PASSED
Executing DM-lcg-cr.sh
DM-lcg-cr.sh PASSED
Executing DM-lcg-list.sh
DM-lcg-list.sh PASSED
```

```
Executing DM-lcg-ls.sh
DM-lcg-ls.sh PASSED
Executing DM-lcg-rf.sh
DM-lcg-rf.sh PASSED
Executing DM-lcg-rep.sh
DM-lcg-rep.sh PASSED
Executing DM-lcg-get-checksum.sh
DM-lcg-get-checksum.sh PASSED
**Running SAME tests**
TEST_PASSED
```

LFC Testsuite

```
LFC_HOST=lfc64o.cern.ch
*Running CLI test set*
Executing LFC-CLI-dchmod
LFC-CLI-dchmod PASSED
Executing LFC-cli-delcom
LFC-cli-delcom PASSED
Executing LFC-CLI-dren
LFC-CLI-dren PASSED
Executing LFC-CLI-fchmod
LFC-CLI-fchmod PASSED
Executing LFC-CLI-fren
LFC-CLI-fren PASSED
Executing LFC-cli-getacl
LFC-cli-getacl PASSED
Executing LFC-cli-ln
LFC-cli-ln PASSED
Executing LFC-cli-mkdir
LFC-cli-mkdir PASSED
Executing LFC-CLI-mkdir
LFC-CLI-mkdir PASSED
Executing LFC-cli-ping
LFC-cli-ping PASSED
Executing LFC-cli-rename
LFC-cli-rename PASSED
Executing LFC-cli-rmdir
LFC-cli-rmdir PASSED
Executing LFC-CLI-rmdir
LFC-CLI-rmdir PASSED
Executing LFC-CLI-rmfile
LFC-CLI-rmfile PASSED
Executing LFC-cli-setacl
LFC-cli-setacl PASSED
Executing LFC-cli-setcom
LFC-cli-setcom PASSED
*Running API_PYTHON test set*
Executing LFC-addreplica
LFC-addreplica PASSED
Executing LFC-addreplicax
LFC-addreplicax PASSED
Executing LFC-chdir
LFC-chdir PASSED
Executing LFC-creatg
LFC-creatg PASSED
Executing LFC-del
LFC-del PASSED
Executing LFC-delcomment
LFC-delcomment PASSED
Executing LFC-fsize
LFC-fsize PASSED
Executing LFC-getacl
LFC-getacl PASSED
```

```

Executing LFC-getcwd
LFC-getcwd PASSED
Executing LFC-getreplica
LFC-getreplica PASSED
Executing LFC-getreplicas
LFC-getreplicas WARNING
Executing LFC-ls
LFC-ls PASSED
Executing LFC-mkdir
LFC-mkdir PASSED
Executing LFC-mkdirg
LFC-mkdirg PASSED
Executing LFC-opendir
LFC-opendir PASSED
Executing LFC-opendirg
LFC-opendirg PASSED
Executing LFC-rename
LFC-rename PASSED
Executing LFC-rmdir
LFC-rmdir PASSED
Executing LFC-setacl
LFC-setacl PASSED
Executing LFC-setatime
LFC-setatime PASSED
Executing LFC-setcomment
LFC-setcomment PASSED
Executing LFC-setfsizeg
LFC-setfsizeg PASSED
Executing LFC-stat
LFC-stat PASSED
Executing LFC-statg
LFC-statg PASSED
Executing LFC-statr
LFC-statr PASSED
Executing LFC-statx
LFC-statx PASSED
Executing LFC-undelete
LFC-undelete PASSED
Executing LFC-unlink
LFC-unlink PASSED
Executing LFC-writefile
LFC-writefile PASSED

```

```
./LFC-getreplicas lfc64o.cern.ch
```

```
<pre>
```

```
Start test: get the replica entries associated with a list of GUIDs (lfc_getreplicas)
```

```
1. Prepare environment
```

```
2. Start test run()
```

```
Test OK: [OK]
```

```
Test SE filter: [OK]
```

```
Test guid length exceeds CA_MAXGUIDLEN (EINVAL) (bug): [FAILED]
```

```
Test SE name length exceeds CA_MAXNAMELEN (EINVAL): [OK]
```

```
Test existing replica nonexisting file (ENOENT) (bug): [FAILED]
```

```
3. Ret test code: False
```

```
Exit
```

```
</pre>
```

```
Test is failure (BUG)
```

SRM Testsuite

```
AbortFiles: OK: SRM_SUCCESS, file level return code: SRM_SUCCESS
```

```
AbortRequest: OK: SRM_ABORTED
```

```
BringOnline: OK: SRM_REQUEST_QUEUED
```

```
ExtendFileLifeTime: OK: SRM_SUCCESS
GetRequestSummary: OK: SRM_SUCCESS
GetRequestTokens: OK: SRM_SUCCESS
GetSpaceMetaData: OK: SRM_SUCCESS
GetSpaceTokens: OK: SRM_SUCCESS
GetTransferProtocols: OK: SRM_SUCCESS
Ls: OK: SRM_SUCCESS
Ls: Ls is synchronous
Mkdir: OK: SRM_SUCCESS
Mv: OK: SRM_SUCCESS
Ping: OK
PrepareToGet: OK: SRM_REQUEST_QUEUED
PrepareToPut: OK: SRM_REQUEST_QUEUED
PutDone: OK: SRM_SUCCESS
ReleaseFiles: OK: SRM_SUCCESS, file level return code: SRM_SUCCESS
ReleaseSpace: OK: SRM_SUCCESS
ReserveSpace: OK: SRM_SUCCESS
Rm: OK: SRM_SUCCESS
Rmdir: OK: SRM_SUCCESS
StatusOfBringOnlineRequest: OK: SRM_REQUEST_INPROGRESS
StatusOfGetRequest: OK: SRM_SUCCESS
StatusOfPutRequest: OK: SRM_SUCCESS
StatusOfReserveSpaceRequest: srmReserveSpace synchronous
```

Bugs

avoid srmv2.2 daemon crash when permission denied on a

Reproduced and fix was confirmed

avoid rfio_lseek64 error after hitting eof in pre-read mode

Not reproduced during certification.

avoid crashes in some methods when using Python 2.5

Reproduced and fixed.

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