

Before Starting

- SL5 / 64bit installation according to the generic guidelines
- host certificate required
- DPM as SE need information about free disk space, therefore DPM_disk (in this case - can be the same machine as DPM_mysql/oracle) requires a **separated** partition, defined in YAIM as `DPM_FILESYSTEMS="$DPM_HOST:/storage"`. Not that DPM works when it's not a separated device, but it cannot properly calculate disk space in such case.

Service installation

```
# wget http://download.fedoraproject.org/pub/epel/5/i386/epel-release-5-4.noarch.rpm
# rpm -ivh epel-release-5-4.noarch.rpm

# wget http://emisoft.web.cern.ch/emisoft/dist/EMI/1/sl5/x86_64/base/emi-release-1.0.0-1.sl5.noarch.rpm
# rpm -ivh emi-release-1.0.0-1.sl5.noarch.rpm

# yum install emi-dpm_disk
# yum install emi-dpm_mysql
# yum install mysql-server

# yum install lcg-CA

# wget https://grid-deployment.web.cern.ch/grid-deployment/emi/repo/common/emi-tb-internal.repo
# yum install emi-tb-vomscerts
```

Service Configuration

Using YAIM for service configuration:

```
# /opt/glite/yaim/bin/yaim -c -s site-info.def -n emi_dpm_mysql -n emi_dpm_disk
```

with following `site-info.def` skeleton:

```
#####
# General configuration variables #
#####
MY_DOMAIN=$(hostname -d)

# These variables tell YAIM where to find additional configuration files.
USERS_CONF= [...] /users.conf
GROUPS_CONF= [...] /groups.conf

MYSQL_PASSWORD="*****"

SITE_NAME=cert-tbrc-mysite

BDII_HOST=certtbrc-bdii.$MY_DOMAIN

#####
# DPM configuration variables #
#####

# DPMDATA is now deprecated. Use an entry like $DPM_HOST:/filesystem in
# the DPM_FILESYSTEMS variable.
# From now on we use DPM_DB_USER and DPM_DB_PASSWORD to make clear
# its different role from that of the dpmmgr unix user who owns the
# directories and runs the daemons.
```

```

# The name of the DPM head node
DPM_HOST=`hostname -f` # my-dpm.$MY_DOMAIN
DPM_XROOTD="no"

DPM_HTTPS="no"
DPM_XROOTD_NOGSI="no"

# The DPM pool name (max 15 character long name)
DPMPOOL=the_dpm_pool123

# The filesystems/partitions parts of the pool
DPM_FILESYSTEMS="$DPM_HOST:/storage"

# The database user
DPM_DB_USER=*****

# The database user password
DPM_DB_PASSWORD="*****"

# The DPM database host
DPM_DB_HOST=$DPM_HOST

# The DPM db name. Default is dpm_db
# DPM_DB=dpm_db

# The DPNS db name. Default is cns_db
# DPNS_DB=cns_db

# The DPM infosystem user name
DPM_INFO_USER=dpminfo

# The DPM infosystem user password
DPM_INFO_PASS=*****

# Specifies the default amount of space reserved for a file
DPMFSIZE=200M

# Variable for the port range - Optional, default value is shown
# RFIO_PORT_RANGE="20000 25000"

#####
# VO configuration variables #
#####
[...]
```

Service Testing

Basic test:

- check running daemons (see links and service reference card for details)
- after getting proxy on UI:

```
$ dpns-ping -h cvitbrcl1
```

```
$ DPM_HOST=cvitbrcl1 dpm-qryconf
```

```
POOL the_dpm_pool DEFSIZE 200.00M GC_START_THRESH 0 GC_STOP_THRESH 0 DEF_LIFETIME 7.0d DEFPINTIME
          CAPACITY 4.99G FREE 4.99G ( 99.9%)
cvitbrcl1.cern.ch /storage CAPACITY 4.99G FREE 4.99G ( 99.9%)
```

Other commands with simple operations tests on a DPM SE are documented in the tutorial information

Links

see also:

- [DPM home](#)
- [Disk Pool Manager at GridPPWiki](#)
- [DPM Testing](#)
- [LCG Data Management documentation](#)

-- TomaszWolak - 10-Aug-2011

This topic: EMI > EmiDpmLogBook

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