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# Notes about Installation and Configuration of a Site BDII - EMI-2 - SL6 x86\_64

- These notes are provided by site admins on a best effort base as a contribution to the IGI communities and **MUST not be considered as a substitute of the Official IGI documentation** .
- This document is addressed to site administrators responsible for middleware installation and configuration.
- The goal of this page is to provide some hints and examples on how to install and configure an IGI Site-BDII based on EMI-2 middleware.

## References

1. About IGI - Italian Grid infrastructure
2. About IGI Release
3. EMI-2 Release
4. Yaim Guide
5. site-info.def yaim variables
6. site-BDII yaim variables
7. Site Certification GHS Check
8. Troubleshooting Guide for Operational Errors on EGI Sites
9. Grid Administration FAQs page

## Service installation

### O.S. and Repos

- Starts from a fresh installation of Scientific Linux 6.x (x86\_64).

```
# cat /etc/redhat-release
Scientific Linux release 6.2 (Carbon)
```

\* Install the additional repositories: EPEL, Certification Authority, EMI-2

```
# yum install yum-priorities yum-protectbase epel-release
# rpm -ivh http://emisoft.web.cern.ch/emisoft/dist/EMI/2/sl6/x86_64/base/emi-release-2.0.0-1.sl6.
# cd /etc/yum.repos.d/
# wget http://repo-pd.italiangrid.it/mrepo/repos/egi-trustanchors.repo
```

- Be sure that SELINUX is disabled (or permissive). Details on how to disable SELINUX are here :

```
# getenforce
Disabled
```

### yum install

```
# yum clean all
Loaded plugins: downloadonly, kernel-module, priorities, protect-packages, protectbase, security,
Cleaning up Everything

# yum install ca-policy-egi-core
# yum install emi-bdii-site
```

see here for details

## Service configuration

You have to copy the configuration files in another path, for example root, and set them properly (see later):

```
# cp -r /opt/glite/yaim/examples/siteinfo/* .
```

### site-info.def

```
#####
# BDII configuration variables #
#####

# Hostname of the site BDII
SITE_BDII_HOST=bdii-01.$MY_DOMAIN

#####
# Site configuration variables #
#####

# Human-readable name of your site
SITE_NAME=IGI-BOLOGNA

# The contact e-mail of your site.
# A coma separated list of email addresses.
SITE_EMAIL="grid-operations@lists.cnaf.infn.it"

# It is the position of your site north or south of the equator
# measured from -90. to 90. with positive values going north and
# negative values going south.
SITE_LAT=44.4948

# It is the position of the site east or west of Greenwich, England
# measured from -180. to 180. with positive values going east and
# negative values going west.
SITE_LONG=11.3417
```

For your convenience there is an explanation of each yaim variable. For more details look at...

### services/glite-bdii\_site

```
# cat siteinfo/services/glite-bdii_site
#####
# Site-wide settings

SITE_DESC="IGI resource center in Bologna"
SITE_SUPPORT_EMAIL="grid-operations@lists.cnaf.infn.it"
SITE_SECURITY_EMAIL="grid-sec@cnaf.infn.it"
SITE_LOC="Bologna, Italy"
SITE_WEB="http://igi.cnaf.infn.it"

SITE_OTHER_GRID="EGI"
SITE_OTHER_EGI_NGI="NGI_IT"

# Available values: [prod|pps|cert]
SITE_OTHER_EGEE_SERVICE="prod"

# List of hosts where there are services that want to publish into the BDII
#BDII_REGIONS="host-id-1 [host-id-2 [...]]"
BDII_REGIONS="MONIT TOPBDII SBDII CREAM01 CREAM02 STORM LFC PX VOMS VOMS2 VOMSMANIA WMSMULTI WMSO
```

```
# The following example is valid for hosts using BDII.
# If your host is using MDS instead (all 3.0 nodes)
# change the port to 2135 and mds-vo-name=local
#BDII_host-id-1_URL="ldap://host-id-1-hostname:2170/mds-vo-name=resource,o=grid"
BDII_MONIT_URL="ldap://mon-it.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_TOPBDII_URL="ldap://egee-bdii.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_SBDII_URL="ldap://bdii.grid.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_CREAM01_URL="ldap://cream-01.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_CREAM02_URL="ldap://cream-02.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_STORM_URL="ldap://darkstorm.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_PX_URL="ldap://$PX_HOST:2170/mds-vo-name=resource,o=grid"
BDII_VOMS_URL="ldap://voms.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_VOMS2_URL="ldap://voms2.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_VOMSMANIA_URL="ldap://vomsmania.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_LFC_URL="ldap://lfcserver.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_LFC2_URL="ldap://lfcitaliangrid.it:2170/mds-vo-name=resource,o=grid"
BDII_WMSMULTI_URL="ldap://wms-multi.grid.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
BDII_WMSCMS_URL="ldap://wms-cms-analisys.grid.cnaf.infn.it:2170/mds-vo-name=resource,o=grid"
```

## yaim check

Verify to have set all the yaim variables by launching:

```
# chmod -R 600 /root/siteinfo

# /opt/glite/yaim/bin/yaim -v -s siteinfo/site-info.def -n BDII_site
INFO: Configuring HOST: bdii-01.cnaf.infn.it
INFO: Using site configuration file: siteinfo/site-info.def
INFO: Sourcing service specific configuration file: siteinfo/services/glite-bdii_site
INFO:
#####

.          /'.-. ')
.   yA,-"-,( ,m,:/ ) .oo.   oo   o       ooo o.   .oo
.   /          .-Y a  a Y-.   8.  .8'   8'8.   8   8b  d'8
.   /          ~ ~ /         8'   .8oo88.   8   8  8'  8
.  (_/          '===='      8   .8'   8.   8   8  Y   8
.   Y,-''-,Yy,-.,/        o8o  o8o   o88o  o8o  o8o   o8o
.   I_))_) I_))_)

current working directory: /root
site-info.def date: May 24 14:38 siteinfo/site-info.def
yaim command: -v -s siteinfo/site-info.def -n BDII_site
log file: /opt/glite/yaim/bin/./log/yaimlog
Thu May 24 15:19:45 CEST 2012 : /opt/glite/yaim/bin/yaim

Installed YAIM versions:
glite-yaim-bdii 4.3.9-1
glite-yaim-core 5.1.0-1

#####
INFO: The default location of the grid-env.(c)sh files will be: /usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utils
INFO: Detecting environment
INFO: Executing function: config_gip_site_check
INFO: Executing function: config_gip_bdii_site_check
INFO: Executing function: config_info_service_bdii_site_check
INFO: Executing function: config_bdii_5.2_check
INFO: Checking is done.
INFO: All the necessary variables to configure BDII_site are defined in your configuration file
INFO: Please, bear in mind that YAIM only guarantees the definition of variables
INFO: controlled in the _check functions.
INFO: YAIM terminated succesfully.
```

## yaim config

```
# /opt/glite/yaim/bin/yaim -c -s site-info_bdii-01.def -n BDII_site
INFO: Using site configuration file: site-info_bdii-01.def
[...]
INFO: YAIM terminated succesfully.
```

## Service Checks

### BDII checks

- check the information published by launching simple ldap queries

```
ldapsearch -x -LLL -H ldap://bdii-01.cnaf.infn.it:2170 -b mds-vo-name=resource,o=grid 'objectClass=GlueSiteUniqueID=IGI-BOLOGNA,Mds-Vo-name=resource,o=grid
dn: GlueSiteUniqueID=IGI-BOLOGNA,Mds-Vo-name=resource,o=grid
GlueSiteDescription: IGI resource center in Bologna
GlueSiteSecurityContact: mailto:grid-sec@cnaf.infn.it
GlueSiteSponsor: none
objectClass: GlueTop
objectClass: GlueSite
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSiteSysAdminContact: mailto:grid-operations@lists.cnaf.infn.it
GlueSiteName: IGI-BOLOGNA
GlueSiteUniqueID: IGI-BOLOGNA
GlueSchemaVersionMinor: 3
GlueSiteLongitude: 11.3417
GlueSiteLatitude: 44.4948
GlueSchemaVersionMajor: 1
GlueSiteOtherInfo: CONFIG=yaim
GlueSiteOtherInfo: EGEE_SERVICE=prod
GlueSiteOtherInfo: EGI_NGI=NGI_IT
GlueSiteOtherInfo: GRID=EGI
GlueSiteUserSupportContact: mailto:grid-operations@lists.cnaf.infn.it
GlueSiteWeb: http://igi.cnaf.infn.it
GlueSiteEmailContact: mailto:grid-operations@lists.cnaf.infn.it
GlueSiteLocation: Bologna, Italy
```

- check that all the services are published

```
$ ldapsearch -x -LLL -H ldap://bdii-01.cnaf.infn.it:2170 -b mds-vo-name=IGI-BOLOGNA,o=grid 'objectClass=GlueSiteUniqueID=IGI-BOLOGNA,Mds-Vo-name=resource,o=grid'
[...]
```

## Revisions

Date	Comment	By
2012-05-24	First draft	Paolo Veronesi

-- PaoloVeronesi - 2012-05-24

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