

# **Site-BDII Installation&Configuration**

Sara Bertocco

INFN Padova

# Installation & Configuration Guide

## Main reference guide:

[https://twiki.cern.ch/twiki/bin/view/EMI/  
GenericInstallationConfigurationEMI3](https://twiki.cern.ch/twiki/bin/view/EMI/GenericInstallationConfigurationEMI3)

# site\_BDII host install&config

- ★ We choose site-BDII co-hosted with the CREAM CE
- ★ No changes needed on the repositories
- ★ Metapackage name: emi-bdii-site
- ★ Node type name: BDII\_site

Installation:

```
yum install emi-bdii-site
```

Configuration:

- ★ site-info.def unchanged
- ★ specific services/glite-bdii\_site customization needed

```
/opt/glite/yaim/bin/yaim -d 6 \
    -c -s /root/siteinfo_dir/site-info.def -n bdii_site
```

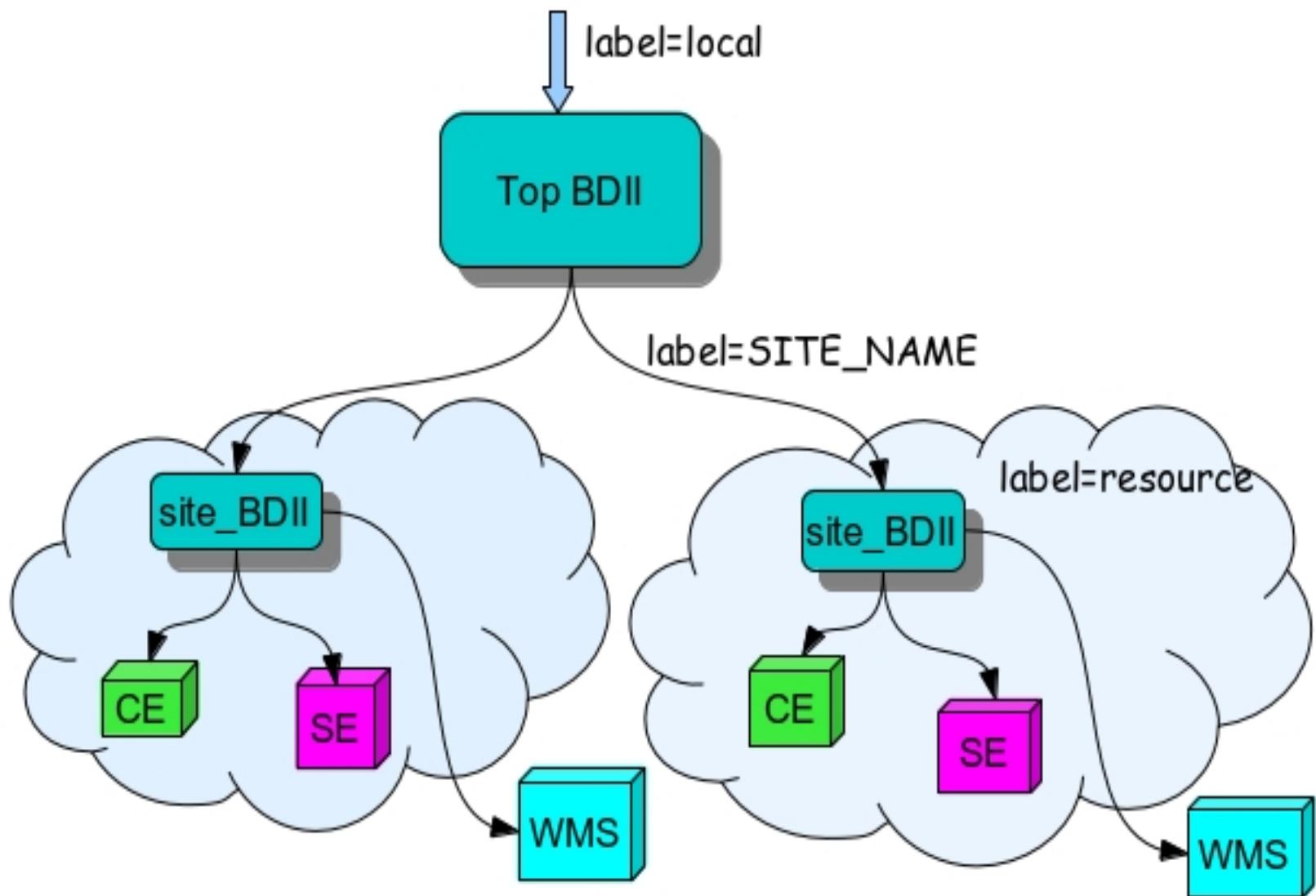
# Exercise 11: `site_BDII Install and Config`

- ★ Install the emi-bdii-site
- ★ Copy (from examples) services/glite-bdii\_site in <siteinfo\_dir>
- ★ Customize glite-bdii\_site
  - Important SITE\_NAME=GridKAXX
- ★ Run YAIM to configure

Relevant files:

[http://wiki.scc.kit.edu/gridkaschool/index.php/Exercise\\_11:\\_site\\_BDII\\_Installation\\_and\\_Configuration](http://wiki.scc.kit.edu/gridkaschool/index.php/Exercise_11:_site_BDII_Installation_and_Configuration)

# Information System Structure



ldapsearch -x -H ldap://<hostname>:2170 -b mds-vo-name=<label>,o=grid

# How to query Information System (1)

## ★ Test that the BDII is operational

```
ldapsearch -x -h <host> -p 2170 -b o=infosys
```

## ★ Test that the BDII is updating

```
ldapsearch -x -h <host> -p 2170 -b o=infosys "*" modifyTimestamp
```

## ★ Test that the Glue 1.3 root entry is available

```
ldapsearch -x -H ldap://<host>:2170 \  
          -b mds-vo-name=resource,o=grid
```

## ★ Test that the Glue 2.0 root entry is available

```
ldapsearch -x -h <host> -p 2170 -b o=glue
```

# How to query Information System (2)

## ★ Query resource (CE or SE or ...)

```
ldapsearch -x -H ldap://<resource_host>:2170  
          -b mds-vo-name=resource,o=grid
```

## ★ Query site BDII

```
ldapsearch -x -H ldap://<site_bdii_host>:2170 \  
          -b mds-vo-name=<SITE_NAME>,o=grid
```

## ★ Query Top BDII

```
ldapsearch -x -H ldap://<top_bdii_host>:2170 \  
          -b mds-vo-name=local,o=grid
```

# Exercise 12: Query BDII

## ★ Query your CREAM CE

```
ldapsearch -x -H ldap://gks-XY.scc.kit.edu:2170 \  
          -b mds-vo-name=resource,o=grid
```

## ★ Query your site BDII

```
ldapsearch -x -H ldap://gks-XY.scc.kit.edu:2170 \  
          -b mds-vo-name=GridKaSchoolXY,o=grid
```

## ★ Query the Top BDII

```
ldapsearch -x -H ldap://emitestbed53.cnaf.infn.it.cnaf.infn.it:2170 \  
          -b mds-vo-name=local,o=grid
```

Relevant files:

[http://wiki.scc.kit.edu/gridkaschool/index.php/Exercise\\_12:\\_Query\\_BDII](http://wiki.scc.kit.edu/gridkaschool/index.php/Exercise_12:_Query_BDII)

# Static information published

- ★ Site static information is set by yaim
- ★ Dynamic information is updated through information providers
- ★ Your site is publishing static information when, querying the site bdii it is:
  - GlueCEPolicyMaxCPUTime: 999999999
  - GlueCEPolicyMaxRunningJobs: 999999999
  - GlueCEPolicyMaxTotalJobs: 999999999
  - GlueCEPolicyMaxWallClockTime: 999999999
  - GlueCEPolicyMaxObtainableCPUTime: 999999999
  - GlueCEPolicyMaxObtainableWallClockTime: 999999999
  - GlueCEPolicyMaxWaitingJobs: 999999999
  - GlueCEPolicyMaxSlotsPerJob: 999999999

# Questions time

