

Site BDII Installation & Configuration

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Main reference guide:

<https://twiki.cern.ch/twiki/bin/view/EMI/>

[GenericInstallationConfigurationEMI2](https://twiki.cern.ch/twiki/bin/view/EMI/GenericInstallationConfigurationEMI2)

- 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:

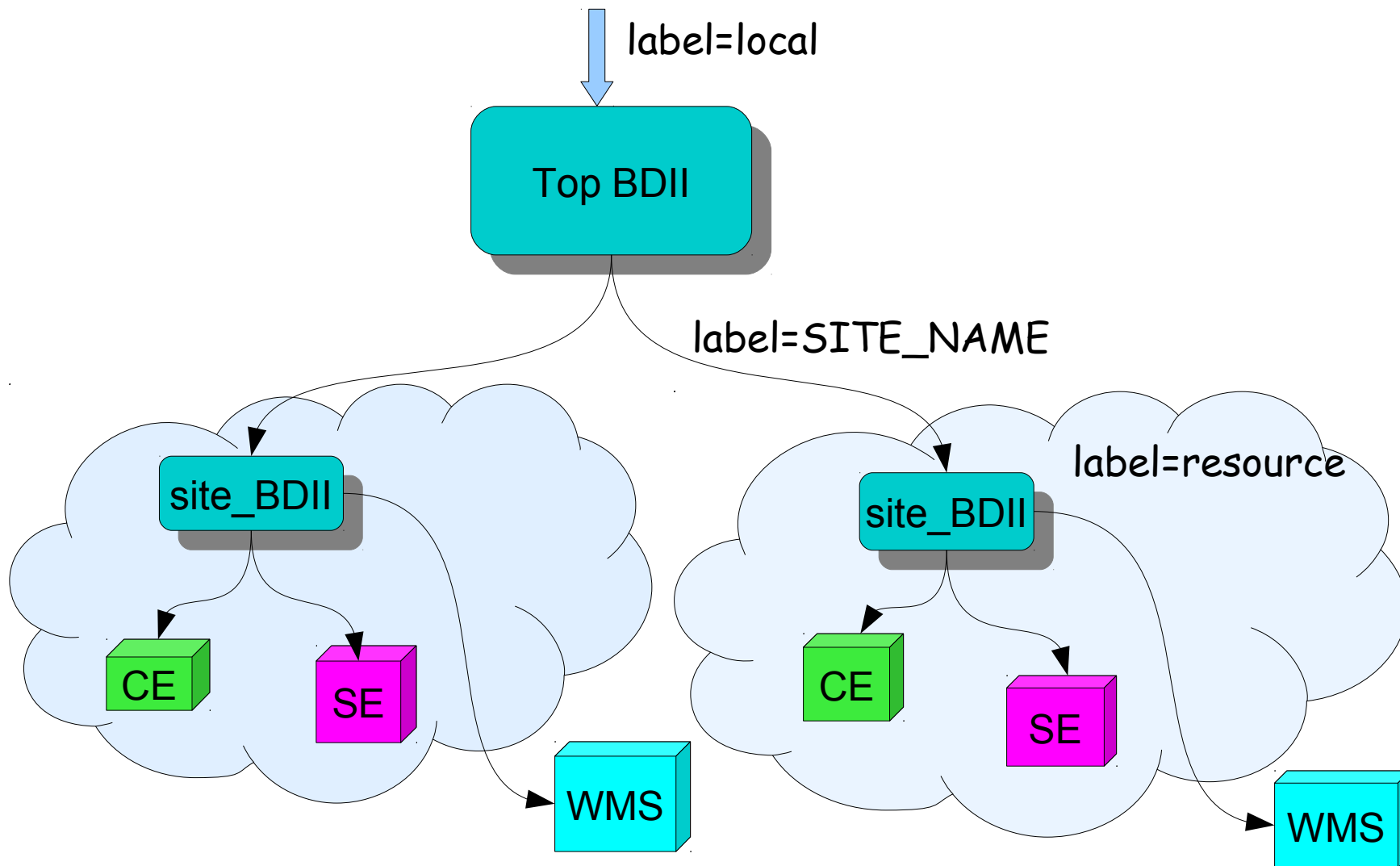
- site-info.def unchanged
- specific services/glite-bdii_site customization needed

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

- 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:

https://wiki.scc.kit.edu/gridkaschool/index.php/EMI_session_1:_EMI_introduction_%26_gLite_services#Exercise_10:_site_BDII_Installation_and_Configuration



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

- 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
```

- 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 11: Query BDII

- Query your CREAM CE

```
ldapsearch -x -H ldap://gks-0-205.fzk.de:2170 \  
-b mds-vo-name=resource,o=grid
```

- Query your site BDII

```
ldapsearch -x -H ldap://gks-0-205.fzk.de:2170 \  
-b mds-vo-name=GridKASchool00,o=grid
```

- Query the Top BDII

```
ldapsearch -x -H ldap://emi-demo06.cnaf.infn.it:2170 \  
-b mds-vo-name=local,o=grid
```

Relevant files:

https://wiki.scc.kit.edu/gridkaschool/index.php/Exercise_11:_Query_BDII

- Site static information is set by yaim
- Dynamic information is updated through information providers
- Your site is publishing static information when, quering the site bdii it is:

GlueCEPolicyMaxCPUTime: 999999999

GlueCEPolicyMaxRunningJobs: 999999999

GlueCEPolicyMaxTotalJobs: 999999999

GlueCEPolicyMaxWallClockTime: 999999999

GlueCEPolicyMaxObtainableCPUTime: 999999999

GlueCEPolicyMaxObtainableWallClockTime: 999999999

GlueCEPolicyMaxWaitingJobs: 999999999

GlueCEPolicyMaxSlotsPerJob: 999999999

Questions ?

