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Information System Providers

This twiki contains information about the existing Information System Providers.

Responsibility Matrix

	Product	Involved Packages	Plugin/Provider in the BDII	Respo
Computing	Condor	info-dynamic-condor ↗	info-dynamic-condor	Miche
	CREAM	1) dynsched-generic ↗ 2) Information providers distributed in cream-utils ↗ 3) YAIM functions (*)	1) glite-info-dynamic-scheduler-wrapper 2) glite-info-cream-glue2 glite-info-dynamic-software-wrapper glite-info-glue2-applicationenvironment-wrapper	Paolo
	HTCondorCE	htcondorce-cern ↗	condor_ce_bdii_generate_glue2	Iain B
	LSF	info-dynamic-scheduler-lsf ↗	glite-info-dynamic-ce (using info-dynamic-lsf)	Ulrich
	PBS	1) lcg-info-dynamic-scheduler-pbs ↗ 2) info-dynamic-pbs ↗ (removed in EMI 3)	glite-info-dynamic-ce (using info-dynamic-pbs)	Paolo
	SGE	glite-info-dynamic-ge ↗	Unknown	ge-sup
	SLURM	info-dynamic-scheduler-slurm ↗	info-dynamic-scheduler-slurm	Paolo
Storage	CASTOR	Unknown	Unknown	Differ RAL.
	EOS	Unknown	Unknown	IT-DS
	dCache	Common GLUE1 and GLUE2 definitions ↗ GLUE 2.0 definitions ↗	Unknown	Paul M
	DPM	dpm-listspaces ↗ Details	se-dpm service-srm2.2	DPM d
	LFC	lcg-info-provider-lfc ↗	glite-lfc-provider	LFC d
	FTS	glue2-publisher ↗	Unknown	FTS d
	StoRM	storm-dynamic-info-provider ↗	Unknown	Elisab
All	-	glite-info-provider-service ↗	glie-info-provider-service-*	Stephe
Cloud	OpenStack	cloud-info-provider-service ↗ python-novaclient (EPEL)	cloud-info-provider-service	Alvaro
	OpenNebula	cloud-info-provider-service ↗	cloud-info-provider-service	Boris I

- (*) CREAM: The following YAIM functions are also used by the CREAM Information Providers:
 - ◆ config_cream_gip [↗](#): GLUE 1.3 static configuration affecting GLUECluster, GlueSubCluster, GlueCE, GlueVOView and GlueCESEBind objects. This creates static LDIF files: static-file-Cluster.ldif, static-file-CE.ldif and static-file-CESEBind.ldif.
 - ◆ config_cream_gip_glue2 [↗](#): GLUE 2.0 static configuration affecting GLUE2ComputingService, GLUE2Endpoint, GLUE2ComputingManager, GLUE2ComputingShare, GLUE2ExecutionEnvironment, GLUE2Benchmark and GLUE2ToStorageService. This creates static LDIF files: ComputingService.ldif, ComputingEndpoint.ldif, ComputingManager.ldif, ComputingShare.ldif, ExecutionEnvironment.ldif, Benchmark.ldif and ToStorageService.ldif. This function also configures the dynamic part for GLUE2Endpoint.
 - ◆ config_cream_gip_info_dynamic [↗](#): Dynamic plugin configuration for the batch systems affecting GLUECE/GLUE2ComputingManager and GLUE2ComputingShare objects. This function calls the batch system specific providers.
 - ◆ config_cream_gip_scheduler_plugin [↗](#): Dynamic plugin configuration for the GLUECE/GLUE2ComputingShare objects to calculate response times and free slots.

- ◆ [config_cream_gip_software_plugin](#):
GlueHostApplicationSoftwareRunTimeEnvironment/GLUE2ApplicationEnvironment objects.

GLUE 2.0 Validation

Note that the validation documented in the sections below was carried out in 2013 and has not been updated since then in most cases. It could be information providers have been upgraded and are now GLUE 2 compliant. A more detailed and continuous activity has been carried out for Storage Services

In order to validate the published GLUE 2.0 information, a detailed review of the GLUE 2 LDAP tree published by the different services has been done. The glue-validator tool has also been run against the services to check whether they are properly implementing the EGI profile for GLUE 2.0 available in <http://go.egi.eu/glue2-profile>. This has been done looking at the EMI 3 testbed (querying `emi3rc-s16-bdii.cern.ch`) and looking at production services.

For CREAM, DPM and StoRM, an LDIF template has been provided as well to support middleware developers in writing correct GLUE 2 information.

Detailed reports per service are listed below:

General

Affected GLUE2 attribute	Description of the problem
GLUE2EntityCreationTime, GLUE2EntityValidity	What to do with cached objects in the top level BDII? The validity is very likely to be invalid at some point!
All GLUE 2 Storage attributes	Check open issues in the publication of storage services for more details

ARC

- Testbed host: `piff.hep.lu.se`
- Command: `glue-validator -H piff.hep.lu.se -p 2135 -b GLUE2DomainID=urn:ad:NIIF_Testbed,o=glue -v 2`
- Tracked in: [Mail thread with Florido Paganelli](#)

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2ServiceAdminDomainForeignKey	UNDEFINEDVALUE is published instead of the correct domain	GGUS:107907 was expecting ARC developers to fix the problem but tickets have been created for every ARC site. i.e GGUS:107985

Most errors and warnings are due to mandatory and recommended attributes missing.

Argus

- Testbed host: `emitestbed30.cnaf.infn.it`
- Command: `glue-validator -H emitestbed30.cnaf.infn.it -p 2170 -b o=glue -v 2`
- Tracked in: [GGUS:92422](#)

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2EndpointURL	Wrong URL type: <code>http://localhost:8152/authz</code>	Bug in the Information Service provider BUG:100822

GLUE2PolicyUserDomainForeignKey	Not published and it is recommended	The missing GLUE2PolicyUserDomainForeignKey is OK in this case - Argus is unusual because the endpoints aren't externally accessible so there are no associated VOs
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CREAM

Check the CREAM GLUE 2 template for more details.


dCache

- Not tested.

DPM

Check the DPM GLUE 2 template for more details.

FTS

- Testbed host: `emi2rc-s15-fts.cern.ch`
- Command: `glue-validator -H emi2rc-s15-fts.cern.ch -p 2170 -b o=glue -v 2`
- Tracked in: [GGUS:92451](#) 

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2EndpointStartTime, GLUE2EntityCreationTime	Wrong type	Fixed in EMI 3
GLUE2ServiceCapability, GLUE2EndpointIssuerCA	Recommended and not present	Fixed in EMI 3

The following table summarises issues found while validating site publication:

Affected site	Description of the problem	Tracked in	Comments
CERN-PROD	Wrong syntax in GLUE2EndpointStartTime	-	Fixed in EMI 3
	Recommended and not published GLUE2ServiceCapability, GLUE2EndpointCapability, GLUE2EndpointIssuerCA	-	Fixed in EMI 3

LB

See WMS (Both services deployed together under the same machine in the testbed)

LFC

- Testbed host: `emi2rc-s16-lfc.cern.ch`
- Command: `glue-validator -g egi-glue2 -H emi2rc-s16-lfc.cern.ch -p 2170 -b o=glue -s egi-profile -n -v 2`
- Tracked in: (similar issues as in DPM)

Affected GLUE2 attribute	Description of the problem	
GLUE2EndpointURL	Wrong URL <code>type:=lfc://emi2rc-s16-lfc.cern.ch:50=</code>	Probably glue-validator needs to be extended
GLUE2EndpointInterfaceVersion	recommended and not published	

Messaging

The following table summarises issues found while validating site publication:

Affected site	Description of the problem	Tracked in	Comments
CERN-PROD	Missing GLUE2EndpointImplementationName	GGUS:93301 ↗	

MyProxy

- Testbed host: emitb-myproxy.civ.zcu.cz
- Command: glue-validator -H emitb-myproxy.civ.zcu.cz -p 2170 -b o=glue -v 2
- Tracked in: GGUS:92424 [↗](#)

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2EndpointURL	Wrong URL type: myproxy://emitb-myproxy.civ.zcu.cz:7512/	glue-validator extended with myproxy as a known protocol
GLUE2EntityCreationTime	Creation date from 2012	A problem with the machine clock. Fixed after a restart.
GLUE2PolicyUserDomainForeignKey	Not published and it is recommended	OK because for myproxy the rules are the DNs of other services rather than VO names

StoRM

Check the StoRM GLUE 2 template for more details.

VOMS

- Testbed host: emitestbed27.cnaf.infn.it
- Command: glue-validator -H emitestbed27.cnaf.infn.it -p 2170 -b o=glue -v 2
- Tracked in: None

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2EntityCreationTime	No longer valid	A problem with the machine. Maybe down?

The following table summarises issues found while validating site publication:

Affected site	Description of the problem	Tracked in	Comments
CERN-PROD	Wrong syntax in GLUE2EndpointStartTime	GGUS:93298 ↗	Fixed in EMI 2 and EMI 3
	Missing GLUE2EndpointImplementationName, GLUE2ServiceCapability, GLUE2EndpointCapability		

WMS 

- Testbed host: `wms008.cnaf.infn.it`
- Command: `glue-validator -H wms008.cnaf.infn.it -p 2170 -b o=glue -v 2`
- Tracked in: [GGUS:93196](#)

Affected GLUE2 attribute	Description of the problem	Comments
GLUE2PolicyUserDomainForeignKey	Not published and it is recommended	It should publish the VOs it supports

This topic: EGEE > ISproviders

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