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Notes for testing gLite 3.1 nodes on SL4

These notes describe the initial release of gLite node types to certification of gLite 3.1 for SL4. At this initial point, the node types concerned are

- glite-CE
- glite-MON
- glite-LB
- glite-SE_dpm_disk
- glite-SE_dpm_mysql
- glite-TORQUE_utils
- glite-VOBOX
- glite-WMS
- lcg-CE

What's new?

- The binaries have been natively built on SL4
- The codebase is gLite 3.1, not gLite 3.0 (in practise the changes here are small)
- There are updated dependencies, most notably
 - ◆ VDT1.6 which provides GT4
 - ◆ Java 1.5
- There is updated configuration based on yaim 3.1
- Many obsolete components have been removed

This release is targeted to 32 bit architecture. Nevertheless, feedback on attempts at 64 bit installation are welcomed.

Installation

There is a section 'Known Issues in Installation and Testing' at the end of this page.

Please use the following instructions. There will be more detailed instructions for each node type as installation experience is gained. In the initial phase, the following meta-packages are available:

- cert-glite-CE
- cert-glite-MON
- cert-glite-LB
- cert-glite-SE_dpm_disk
- cert-glite-SE_dpm_mysql
- cert-glite-TORQUE_utils
- cert-glite-VOBOX
- cert-glite-WMS
- cert-lcg-CE

You will have to install an rpm for java 1.5 first. If needed, you can get java as described in GLite31JPackage.

Examples of YUM repository configuration

For example, in order to use yum to install glite-CE or glite-WMS, first create `glite.repo` in `/etc/yum.repos.d` with the following contents (please note that the baseurls of the repositories have changed since the original release of this documentation).

glite.repo for glite-CE

```
[cert-glite-ce]
name=gLite 3.1 CE (Testing and Certification)
baseurl=http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/glite-CE/s14/i386
enabled=1
```

glite.repo for glite-VOBOX

```
[cert-glite-vobox]
name=gLite 3.1 VOBOX (Testing and Certification)
baseurl=http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/glite-VOBOX/s14/i386
enabled=1
```

glite.repo for glite-WMS

```
[cert-glite-wms]
name=gLite 3.1 WMS (Testing and Certification)
baseurl=http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/glite-WMS/s14/i386
enabled=1
```

glite.repo for lcg-CE

```
[cert-lcg-ce]
name=gLite 3.1 lcgCE (Testing and Certification)
baseurl=http://grid-deployment.web.cern.ch/grid-deployment/glite/cert/3.1/lcg-CE/s14/i386
enabled=1
```

Common items for all gLite Node Types

You will have to reference a jpackage repository as well (for example in `jpackage.repo`);

```
[main]
[jpackage17-generic]
name=JPackage 1.7, generic
baseurl=http://mirrors.dotsrc.org/jpackage/1.7/generic/free/
enabled=1
protect=1
```

```
[main]
[jpackage5-generic]
name=JPackage 5, generic
baseurl=http://mirrors.dotsrc.org/jpackage/5.0/generic/free/
enabled=1
protect=1
```

More information on java and jpackage with gLite 3.1 can be found [here](#)

Then you can do

```
to install glite-CE, type
# yum install cert-glite-CE
```

```
to install glite-WMS, type
# yum install cert-glite-WMS
```

Known Issues in Installation and Testing

glite-MON

Metapackage installation errors:

```
Error: Missing Dependency: egee-log4j >= 1.2.6 is needed by package glite-rgma-servicetool
Error: Missing Dependency: egee-log4j >= 1.2.6 is needed by package glite-rgma-gin
Error: Missing Dependency: egee-log4j >= 1.2.6 is needed by package glite-rgma-publish-site
```

glite-SE_dpm_disk, glite-SE_dpm_mysql and glite-SE_dpm_oracle

Issues when preparing the repository:

```
WARNING. perl-SOAP-Lite-0.69-1.el4.rf.noarch.rpm picked from the Integration Repository
```

A Perl package required in installation is not found under ETICS. Alternative location has been chosen and the file has been copied to the integration repository from there. The module is perl-SOAP-Lite-0.69-1.el4.rf.noarch.rpm and its original location:

```
http://linuxsoft.cern.ch/dag/redhat/el4/en/i386/RPMS.dag/perl-SOAP-Lite-0.69-1.el4.rf.noarch.rpm
```

glite-VOBOX

Prior to installation of the metapackage, the following packages need to be installed:

- jdk-1_5_0_12-linux-i586.rpm from Sun
- java-1.5.0-sun-compatible-1.5.0.12-1jpp.i586.rpm from jpackage1.7

Issues when preparing the repository:

```
WARNING. lcg-proxy-renew-1.0.1-1.noarch.rpm picked from the Integration Repository
```

The lcg-proxy-renew package has been fetched from a temporary location (not ETICS) described in the patch #1244:

```
/afs/cern.ch/user/e/elisal/public/lcg-proxy-renew-1.0.1-1.noarch.rpm
```

glite-WMS

Issues when preparing the repository:

```
WARNING. glite-security-lcmapi-plugins-voms-1.3.7-1.slc4.i386.rpm picked from the Integration Repository
```

Metapackage installation errors:

```
Error: Missing Dependency: glite-security-voms >= 1.7.16-2 is needed by package glite-wms-helper
```

glite-FTM

This needs a version of perl-SOAP-Lite later than that supplied by the OS. Because 'protectbase' is normally used, this manoeuvre is required before the main install;

```
# yumdownloader perl-SOAP-Lite-0:0.69-1.el4.rf.noarch
# yum localinstall perl-SOAP-Lite-0.69-1.el4.rf.noarch.rpm
```

Configuration

Instructions will be added in the next future.

-- JuhaHerrala - 24 Aug 2007

This topic: EGEE > Glite31CertTest

Topic revision: r15 - 2007-09-12 - unknown



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