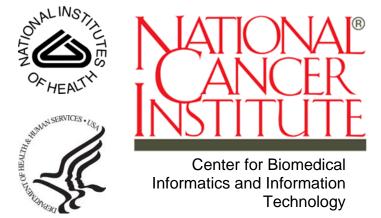
CAGRID PORTAL 2.1

Installation Guide



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October 7, 2008





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Revision History

The following is the revision history for this document.

Date	Version	Description	Revised By
October 7, 2008	2.1.3	Corrected CVS tag and download link.	Carolyn Kelley Klinger
October 6, 2008	2.1.2	Changed upgrade command in Chapter 5.	Carolyn Kelley Klinger
October 6, 2008	2.1.1	Formatted code snippets to avoid wrapping. Converted list of values in upgrading chapter to a table.	Carolyn Kelley Klinger
October 5, 2008	2.1	Applied styles from CBIIT Word template. Changed version number throughout for 2.1 release. Added Credits section. Added registered trademark for caBIG®. Changed title page to say CBIIT. Added chapter on upgrading.	Carolyn Kelley Klinger
July 22. 2008	2.0.2.2	Corrected Yahoo URL.	John Eisenschmidt
June 28, 2008	2.0.2.1	Added caGrid license v2 and formatted.	Carolyn Kelley Klinger
June 27, 2008	2.0.2	Updated for caGrid Portal 2.0.2.	Manav Kher
December 18, 2007	2.0.1	Updated for caGrid Portal 2.0.1.	Eddie VanArsdall

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About This Guide

This guide explains how to install, deploy, configure, and run the caGrid Portal 2.1 application. It also provides prerequisite requirements for the installation.

About the caGrid Portal

The caGrid Portal is a Web-based application that enables end users to discover and interact with the services that are available on the caGrid infrastructure. The portal serves as the primary visualization tool for the caGrid middleware and provides a standards-based platform for hosting caBIG-related tools. The portal also serves as a caBIG information source. Users of the portal have instant access to information about caBIG® participants, caGrid points of contact (POCs), and caGrid-related news and events.

Audience for This Guide

This installation guide is intended for caGrid service developers, client application developers, and service administrators. Users of this guide should be familiar with Java and other programming languages, database concepts, and the Internet. This guide assumes that users intending to use caGrid resources in software applications have experience with building and using complex data systems.

Credits and Resources

caGrid Portal Development and Management Teams		
Development	Quality Assurance	Program and Project Management
Joshua Phillips ²	Aynur Abdurazik ³	Krishnakant Shanbhag 1
Manav Kher ²		John Eisenschmidt ⁴
	Documentation	
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4. 5AM Solutions	5. Lockheed Martin Management System Designers	

Contacts and Support	
NCICB Application Support	http://ncicbsupport.nci.nih.gov/sw/ Telephone: 301-451-4384 Toll free: 888-478-4423

Chapter 1 Pre-Installation

Obtain the caGrid Portal Software

You can obtain the caGrid Portal software by downloading the release or checking out the project from CVS.

Download the Release

To download the release, follow this link:

https://gforge.nci.nih.gov/frs/?group_id=25

Check Out the Project from CVS

To check out the project from CVS, use the settings in Table 1:

Setting	Value
Username	anonymous
Password	anonymous
Protocol	ssh
Host	cbiocvs2.nci.nih.gov
Repository	/share/content/gforge/cagrid-1-0
module	cagrid-1-0/Applications/cagrid-portal
tag	cagrid-portal-2-1_release_final

Table 1. Settings for checking out source code from CVS

If you are using a command line CVS client, use this command:

```
export CVS_RSH=ssh
cvs -d :ext:anonymous@cbiocvs2.nci.nih.gov:/share/content/gforge/cagrid-1-0 co \
-r cagrid-portal-2-1_release_final \
-d cagrid-portal cagrid-1-0/Applications/cagrid-portal
```

After checkout, the caGrid Portal source code directory (referred to henceforth as \$SRC) will be located under cagrid-portal in the current directory.

Obtain the Required Software

Before installing the caGrid Portal, make sure that you have the following applications. Set the environment variables as specified.

Application/Version	Preparation
Java 1.5	Set JAVA_HOME and make sure that the Java SDK executable is on the PATH.
Ant 1.6.5	Set ANT_HOME and make sure that the Ant executable is on the PATH.
MySQL 5+	You will need privileges to create and delete databases.

Table 2. caGrid Portal Installation Requirements

Create the Databases

The caGrid Portal application requires two databases: one for Liferay data, and one for caGrid Portal data. By convention, the names of these databases are lportal and portal2. If you are using these database names, then you need to execute the following SQL in your MySQL database:

```
create database lportal character set utf8;
create database portal2;
```

You also need to provision an account that has access to these databases. If the same account will have full access to both databases, use the following SQL:

```
grant all privileges on lportal.* to 'portalacct'@'%' identified
by 'mypwd';
grant all privileges on portal2.* to 'portalacct'@'%' identified
by 'mypwd';
flush privileges;
```

This gives the user portalacct all privileges on these databases. This user can access the databases from any host. For more information, see the MySQL admin documentation at http://dev.mysql.com/doc/refman/5.0/en/index.html.

Create the SSL Certificate and Keystore

Some pages in the portal need to be protected with HTTPS. You need to create an SSL certificate that the embedded Tomcat instance (running in JBoss) will use. The installation script will configure the Tomcat HTTPS Connector, but you still must either create a certificate and PKCS12 keystore or specify the path to an existing keystore and provide the keystore password.

To create a keystore using the Java keytool, run this command:

\$JAVA_HOME/bin/keytool -genkey -alias tomcat -keyalg RSA -keystore /path/to/my/keystore

Make sure that you use the same password for the keystore and the key. When prompted for the first and last name, specify the host name.

For complete instructions on using keytool, follow this link: http://java.sun.com/j2se/1.5.0/docs/tooldocs/windows/keytool.html

For instructions on configuring JBoss and Tomcat to use SSL, follow these links:

- http://tomcat.apache.org/tomcat-5.5-doc/ssl-howto.html
- http://docs.jboss.org/jbossas/jboss4guide/r5/html/ch9.chapt.html#ch9.https.sect

By default, the installation script will assume that the keystore is located at \$HOME/portal-liferay/portal-keystore and that the keystore password is portal. You can configure this location and password in the properties file that the installation script uses (described later).

Obtain a Google Maps API Key

You can get a Google Maps API key at http://www.google.com/apis/maps/signup.html/. If your host name is my.host.com and the HTTP server is listening to port 8080, then the URL you should use is http://my.host.com:8080/. Save this key for future use.

Obtain Yahoo ApplicationID

Get an ApplicationID from Yahoo at http://developer.yahoo.com/wsregapp/. Save this for future use.

Configure the caGrid Trust Fabric

The caGrid Portal uses GAARDS to authenticate users, so you must configure the caGrid trust fabric on the machine that will host the portal. The portal itself will use the GTS client to maintain the trust fabric, but you must also bootstrap the trust fabric.

By default, the portal will use the nci_prod as the target grid. If you are using this grid, you don't need to do anything.

If you are using one of the following grids, the trust synchronization configuration has already been provided:

- nci dev
- nci_stage
- osu_dev
- training

You will simply need to create a corresponding build.properties file. Look at build-nci_qa.properties as an example. When you run the installation script, you must specify the name of your target environment. For more information, see the next section, Configure the caGrid Portal Installation.

If you are using another target grid, then you need to do three things:

- 1. Create a sync-description.xml file to configure the GTS client that the portal uses.
- 2. Bootstrap the trust fabric by placing root certificates under the \$HOME/.globus/certificates directory.
- 3. Configure the caGrid Portal to use your sync-description.xml configuration.

To configure the portal to uses your sync-description.xml file and certificates, you need to edit the aggr.trust.syncgts.file and aggr.trust.certs.dir properties to the path to your sync-description.xml file and the directory in which the root certificates are found, respectively.

To find directions for configuring a trust fabric using caGrid tools, follow this link: <a href="http://www.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php?title=GTS:1.1:Administrators_Guide:Syncing_Withtown.cagrid.org/mwiki/index.php

Configure the caGrid Portal Installation

The caGrid Portal installation script is at \$SRC/build.xml. This is an Ant build file configured by the properties defined in the build.properties file in the same directory. To customize the installation, you can directly edit build.properties, or you can override those properties by adding them to the build-local.properties file.

If you want to maintain installation configurations for multiple deployment tiers, you can create multiple properties files with the following naming convention: build-

<tier>.properties, where <tier> is replaced with the name of the tier. For example, if you create a configuration for the testing tier, then you would create a file named build-testing.properties, and then run Ant from the \$SRC directory as follows:

ant -target.env=testing install

See the \$SRC/build.properties file itself for descriptions of all the properties. If you are using the nci_prod_target grid and default installation location, then you will usually only need to edit the following properties:

• liferay.admin.password

- liferay.db.host
- liferay.db.port
- liferay.db.name
- liferay.db.username
- liferay.db.password
- cagrid.portal.admin.email
- cagrid.portal.db.url
- cagrid.portal.db.username
- cagrid.portal.db.password
- cagrid.portal.geocoder.yahoo.appId
- cagrid.portal.map.google.apiKey
- cagrid.portal.security.encryption.key

Chapter 2 Installation

From the \$SRC directory, run the following command:

```
ant -Dtarget.env=<envname> install
```

If you have just directly updated build.properties or build-local.properties, then you would run the following command:

ant install

Chapter 3 Post-Installation

Set Up the Environment

On Windows, use the System application in the Control Panel to set the JBOSS_HOME environment variable to point to the directory in which JBoss was installed. By default, the variable will point to the following path:

```
%HOMEDRIVE%%HOMEPATH%\portal-liferay\jboss-4.0.5.GA
```

On Unix/Linux/Mac, the default location will be \$HOME/portal-liferay/jboss-4.0.5.GA. You can set the environment variable in the bash shell as follows:

```
export JBOSS_HOME=$HOME/portal/liferay/jboss-4.0.5.GA
```

Start the Application Server

On Windows, do the following:

- 1. Navigate to %JBOSS_HOME%\bin.
- 2. Double-click run.bat.

On Unix/Linux/Mac, do something like this:

```
cd $JBOSS_HOME/bin
chmod u+x *
./run.sh > portal.log &
```

Import the Site Structure

You can configure the basic site structure by using the Liferay administrative portlets to import Liferay Archive (lar) files. These files are available in the \$SRC/portals/liferay/lars/ directory.

To import the lar files, follow these steps:

1. Using your browser, go to: :8443">https://~hostname>:8443 . 2. Sign in using the following parameters: • username: portaladmin@cabig.nci.nih.gov • password: p0rtal@dmin 3. In the upper right corner, click the Welcome drop-down menu, th select My Places > My Community. 4. Click the icon to the right of the Private Pages text. 5. Click the Import/Export tab. 6. Click the Import sub tab. 7. Select the Portlet Preferences and Portlet Data checkboxes. 8. Click the Browse button to navigate to and select portaladmin private-community.lar. 9. Click OK. 10. Click Import. 11. Click the back arrow icon in the upper right corner.	
 username: portaladmin@cabig.nci.nih.gov password: p0rtal@dmin In the upper right corner, click the Welcome drop-down menu, th select My Places > My Community. Click the icon to the right of the Private Pages text. Click the Import/Export tab. Click the Import sub tab. Select the Portlet Preferences and Portlet Data checkboxes. Click the Browse button to navigate to and select portaladmin private-community.lar. Click OK. Click Import. 	
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8. Click the Browse button to navigate to and select portaladmin private-community.lar. 9. Click OK. 10. Click Import.	
9. Click OK. 10. Click Import.	
10. Click Import.	-
11. Click the back arrow icon in the upper right corner.	
12. In the upper right-hand corner, click the Welcome drop-down me then select My Places > My Community > Private Pages .	nu,
Note: This time, just click the Private Pages text—not the icon to the rig	ht.
13. Using the Communities portlet, click the Communities I have joi tab.	ned
14. Click the Configure Pages icon for the Guest community.	
This is the third icon from the left showing an image of two pieces paper.	of
15. Click the Import/Export tab.	
16. Click on the Import sub tab.	

Step	Action
17.	Select the Portlet Preferences and Portlet Data check boxes.
18.	Click the Browse button to navigate to and select guest-community.lar.
19.	Click OK .
20.	Click Import.
21.	Click the back arrow icon in the upper, right corner of page.
22.	In the upper, right corner, click the Welcome drop-down menu, then select My Places > Guest Community > Public Pages .
	The caGrid Portal home page appears.
23.	Sign out by selecting the Sign Out option from the Welcome drop-down menu.

NOTE:



If you see an error message just below the Google Map on the Home page stating that you do not have privileges to view this portlet, simply restart JBoss.

Secure the Encryption Key

A file named cagridportal.properties will be generated and placed in two locations on the file system:

- \$JBOSS_HOME/server/default/deploy/liferay-portal.war/WEB-INF/classes/cagridportal.properties
- \$JBOSS_HOME/server/default/deploy/cagridportlets/WEB-INF/classes/cagridportal.properties

The value of the <code>cagrid.portal.security.encryption.key</code> property in this file will be used to encrypt authentication tickets as well as portal users' temporary grid credentials in the database. These files must be protected so that users' grid credentials cannot be decrypted by a malicious user who has access to both the hosting system and database. Set file permissions appropriately for your system.

Chapter 4 Re-Installation

This section describes the steps needed to wipe out an existing installation and reinstall. All existing data will be destroyed. See the Administrator's Guide for directions on backing up data and running batch imports of data.

- 1. Stop the JBoss application server.
- 2. Drop the portal 2 and lportal databases.
- 3. Re-create the databases.
- 4. From \$SRC, run the following command:

```
ant -Dtarget.env=<env> clean install
```

Chapter 5 Upgrading from caGrid Portal 2.0.2 to 2.1

This chapter explains how to upgrade an existing caGrid Portal 2.0.2 installation to version 2.1. If you are running an older (< 2.0.2) version of Portal, it is recommended that you re-install. See *Chapter 4*, *Re-Installation* on page 12 for more information.

Obtaining the caGrid Portal 2.1 Software

You can download the caGrid Portal release or check out the code from CVS.

Download the Release

The caGrid Portal 2.1 release can be downloaded from GForge.

Check-out caGrid Portal from CVS

You can use the following settings to check out the source code:

Setting	Value
Username	anonymous
Password	anonymous
Protocol	ssh
Host	cbiocvs2.nci.nih.gov
Repository	/share/content/gforge/cagrid-1-0
module	cagrid-1-0/Applications/cagrid-portal
tag	cagrid-portal-2-1_release

Table 3. Settings for checking out source code from CVS for upgrade to caGrid Portal 2.1

If you are using a command line CVS client, you could use this command:

```
export CVS_RSH=ssh

cvs -d :ext:anonymous@cbiocvs2.nci.nih.gov:/share/content/gforge/cagrid-1-0 co \
-r ccagrid-portal-2-1_release \
-d cagrid-portal cagrid-1-0/Applications/cagrid-portal
```

After checkout, the caGrid Portal source code directory (referred to henceforth as \$SRC) will be located under ./cagrid-portal.

Obtain Required Software

The following software must be installed:

- Java 1.5
 Make sure JAVA_HOME is set and Java SDK executable is on the PATH.
- Ant 1.6.5
 Make sure that ANT HOME is set and Ant executable is on the PATH.

Update Properties

The caGrid Portal build script uses build-local.properties and build-<target.env>.properties files for setting all its properties.

NOTE:



build-local.properties overrides all other properties.

You can copy these property files from your existing 2.0.x installation or simply edit these properties for your environment.

<target.env> is the environment in which the Portal is being installed. By default, the distribution of caGrid Portal is pre-configured for the following environments:

- nci dev
- nci_qa
- nci_production (default)

Upgrade caGrid Portal Software

The following steps will upgrade the existing installation of caGrid Portal to 2.1

- 1. Shut down JBOSS.
- 2. Run ant -Dtarget.env=nci_dev update_from_2_0_2_to_2_1
- 3. Run ant -Dtarget.env=nci_dev liferay:deploy-all
- 4. Start up JBOSS.

Update caBIG® Participant information

caGrid Portal 2.1 has updated the list of caBIG® participants, that are loaded into the database when the portal is first installed. Follow the instructions here to upload the new participant information.

Upgrade Portal Site Structure

We have an updated UI layout in caGrid Portal 2.1. See http://www.cagrid.org/wiki/Portal:2.0:Installation Guide#Import the Site Structure for instructions on how to import the Site Structure into the Liferay Portal Server.

The only difference would be the source of the layout files (lars). You should use the layouts from the 2.1 distribution. These layout files are located in cagrid-portals/liferay/lars/.

Chapter 6 Firewall/Connectivity Considerations

By default, the portal installation script will download JBoss and several Liferay artifacts. If you are behind a firewall, you will need to provide the proxy configuration for your Java Virtual Machine. Essentially, you simply need to set the ANT_OPTS environment variable to include the standard Java proxy settings using the following command:

```
export ANT_OPTS="-Dhttp.proxyHost=proxy -Dhttp.proxyPort=8080"
```

For additional instructions, follow this link: http://ant.apache.org/manual/proxy.html.

If you have no Internet access, you can still use the installation script. You will simply need to download the dependencies manually and then edit the following properties in build.properties so that they point to local directories and files:

- liferay.jboss.home
- liferay.jboss.zip
- liferay.downloads.dir
- liferay.dependencies.zip
- liferay.war

See build-liferay.xml for details.