

CORE - caDSR : CDE Curation Tool 4.0.0.0 Installation

This page last changed on Oct 15, 2008 by Hebell.

Contents

- [Introduction](#)
- [Installation Steps](#)
- [Runtime Options](#)
- [Required Technology](#)
- [Troubleshooting](#)

Introduction

The purpose of this document is to detail the Installation Steps and Site Configuration Options for the CDE Curation Tool Version 4.0.0.0. The Curation Tool source and all related documentation can be accessed at <http://gforge.nci.nih.gov/projects/cdecurate>. All caCORE companion projects can be referenced from <http://gforge.nci.nih.gov>.

Pre-requisites

The CDE Curation Tool project conforms to the NCICB Auto Deploy Project Template ([Wiki](#), [PDF](#)). All such projects are installed by identical steps as detailed in the NCICB Auto Deploy Project Installation ([Wiki](#), [PDF](#)). Exceptions will be noted below.

Installation Steps

1. Download the project package from the NCICB [Download Site](#).
2. Extract all project files into the desired location. For the purpose of this document, /cdecurate-4000/ is assumed to be the project root folder. File references beginning with "./" can be found in the project path from this root.
3. Create an Ant properties file, named **build.properties**, using the ./template.build.properties and the [Auto Deploy Project Installation](#) (noted above).
 -  Always start with the template.build.properties as it describes the specific properties used for this project. The Auto Deploy document lists all property descriptions used across all Auto Deploy projects, not all properties are required in all projects. The properties in the template.build.properties must be cross referenced back to the supporting documentation.
4. Review the ./conf/template.load_tool_options.sql file. This file contains defaults for the dynamic runtime values used during specific tasks in the Curation Tool. The Runtime Options section below provides more specifics about each.
5. Execute ant -DPROP.FILE=build.properties -f build.xml build-all deploy
The project will be built and deployed per the property settings in the build.properties file.
6. Start JBoss if not started, restart JBoss if already started. An issue was found in the JBoss hot-deploy that will exhaust executable memory if it is not restarted after a new WAR is deployed.
7. Open a browser and enter <http://<server>/cdecurate/> to start the Curation Tool.
 -  When deployed to a secure server enter <https://<server>/cdecurate/>.
 -  The user must have access to the server and in some environments this may require running a Virtual Private Network (VPN) connection.
 -  Curation Tool 4.0.0.0 has only been certified with IE 7 and above. Firefox and other browsers may be used but may not behave properly and may encounter Javascript issues.

Runtime Options

Some of the Curation Tool logics are controlled by configuration options stored in a table within the caDSR database. These options are set via the script load_tool_options.sql located at 'cdecurate/conf/

<tier_name>, where <tier_name> can be stage, prod etc. The options contained in this script allow for dynamic changes without the need to build or deploy a cdecurate.war file. The options are identified by the tool name and a property. For the Curation Tool the tool name in the script is always 'CURATION'. Details of the property and values of the configuration options follow. Each is identified by the property name followed by a description of its use. In addition to the information provided here there are extensive comments in the load_tool_options.sql file concerning valid values for each property.

1. URL
The URL to access the Curation Tool Login page, should be stored in the format - "http//<Curation Tool Alias>". E.g. NCICB production is <http://cdecurate.nci.nih.gov>. If <Curation Tool Alias> does not exist it should follow this format - "http//<server_name>:<port>/cdecurate"
2. EVS.URL
The EVS URL to access the EVS data from Curation Tool, should be stored in this format - "http//<EVS RMI Alias>/cacore32/http/remoteService". E.g. NCICB production is <http://cabio.nci.nih.gov/cacore32/http/remoteService>. If <EVS RMI Alias> does not exist it should follow this format - "http//<server_name>:<port>/cacore32/http/remoteService".
3. REFDOC_FILECACHE
The directory for file cache to create url for uploading blobs from the caDSR database to the web server. E.g /local/content/cdecurate/filecache/. This directory must exist in the application server.
4. REFDOC_FILEURL
The prefix URL for building the file anchor tag for files uploaded to the file cache, should be stored in the format - "<URL>/filecache" where <URL> is as defined above (1). E.g. NCICB production is <http://cdecurate.nci.nih.gov/filecache/>.
Curation tool also requires the URLs of other NCICB applications stored in the tools_options table. If not already exists in the table, include the following in the load_tool_options.sql.
5. URL (CDE Browser)
The URL to access the CDE Browser Details page from Curation Tool should be stored in the format - "http//<CDE Browser Alias>". E.g. NCICB production is <http://cdebrowser.nci.nih.gov>. If < CDE Browser Alias> does not exist it should follow this format - "http//<server_name>:<port>/CDEBrowser"
6. URL (EVS)
The URL to access the EVS data from Curation Tool, should be stored in this format - "http//<EVS RMI Alias>/cacore32/http/remoteService". E.g. NCICB production is <http://cabio.nci.nih.gov/cacore32/http/remoteService>. If <EVS RMI Alias> does not exist it should follow this format - "http//<server_name>:<port>/cacore32/http/remoteService".
7. URL (UMLBrowser)
The URL to access the UML Model Browser tool from Curation Tool, should be stored in this format - "http//<UML Browser Alias>". E.g. NCICB production is <http://umlmodelbrowser.nci.nih.gov>. If < UML Browser Alias> does not exist it should follow this format - "http//<server_name>:<port>/umlmodelbrowser".

Required Technology

The product versions which follow were used during the development and system testing of the CDE Curation Tool. Although new versions of the products have been released they have not yet been certified with the Curation Tool Version 4.0.

 Deviating in any way from the products and versions listed below may cause errors. When attempting to deploy the Curation Tool to a different technology stack, please first deploy as documented in this Installation Guide and then begin the migration.

Product	Version	Web Site & Notes
JBoss	4.0.5	http://www.jboss.org/downloads/index
JDK	1.5.0_10	http://java.sun.com/j2se/1.5.0/ Recommend downloading the J2EE 1.5 SDK.
ANT	1.6.5	http://ant.apache.org/

Eclipse	Current	http://www.eclipse.org/platform/ This is a development environment only and provides no runtime or build components.
IE	7.0+	http://www.microsoft.com/windows/ie/downloads This is the latest Internet Explorer from Microsoft.
EVS API	4.1	http://ncicb.nci.nih.gov/download/cacoreevsapilicenseagreement.jsp This is the EVS client JAR files which provide access to EVS. When creating a remote installation which will not use EVS, please refer to Removing caCORE API for more information.

Troubleshooting

Following is a list of known errors and resolutions that may occur during the build and deployment process. If you have a question or situation not covered in this document please contact the NCICB Help Desk via email at ncicb@pop.nci.nih.gov.

1. The Curation Tool Login screen appears and a valid user name and password is not accepted.
 - Verify the login credentials entered are valid.
 - Verify the username and password entered in the build.properties (above) are valid.
 - Recommend using an independent database application, e.g. SQL Plus, TOAD, etc, to verify the connection credentials.
2. Using Firefox, Mozilla and other web browsers.
 - The Curation Tool has only been certified with Microsoft Internet Explorer version 7.0 and higher.
3. java.net.bind.exception JVM_8080 port not available.
 - Correct the JBoss installation.
4. Error in EVS Connection.
 - Make sure EVS connection string stored in the value of EVS.URL property in tool_options_ext table in caDSR is valid by accessing the URL. To test URL use it in a browser address field, a welcome/intro page should display.
5. Goes to error page with NullPointerException at the opening of create or edit pages.
 - If you cannot open create or edit pages of any AC, verify the 'cdecurate.log' file located at '<jboss_home>/server/default/log' folder. If the error message 'getCSCSIList for other : java.sql.SQLException: Invalid column name' is found in the log file, there may be an API error. Modify the stored procedure SBREXT_CDE_CURATOR_PKG.GET_CSCSI_LIST to remove the comment text next to 'LEVEL' field of the query.
6. API_CON_106 error while creating Data Element Concept
 - Make sure that 'caBIG' context data exists in the 'Contexts' table of database either by querying the database or locating the 'caBIG' under Contexts dropdown list of the contexts on the main search page.
If you have a question or situation not covered in this document please contact the NCICB Help Desk via email at ncicb@pop.nci.nih.gov.
7. Java security issues
 - In order for Curation Tool to access EVS Server, certain java policy permissions must be granted. If this is not done then EVS search results will not be available within the tool. The server should have the System environmental variable JAVA_HOME pointing to the directory of the JDK.
The java.policy file in the jdk's jre/lib/security folder should have this entry

```
grant { permission java.security.AllPermission; };
```

- If JBoss is configured to use security manager at startup, ensure that the policy file referenced has appropriate entries to allow necessary access for CDE Curation Tool to function properly.

Policy file used in NCICB environment - `$JBASS_HOME/server/default/conf/server.policy`