



Installing LexEVS Grid Services

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Introduction

This document is a section of the [Installation Guide](#).

This section provides requirements, instructions, and troubleshooting information for installing LexEVS Grid Services.

Minimal system requirements

- Internet connection
- 2 GB RAM
- Tested Platforms (Similar Hardware Specification for Operating System)

LexBIG has been tested on the platforms shown in Table 1.

	<i>Linux Server</i>	<i>Linux Server</i>	<i>Windows</i>
Model	HP Proliant DL 380	Penguin	Dell Latitude
CPU	2 x Intel® Xeon™ Processor 2.80GHz	Dual AMD Opteron 248 processors (64 bit)	1 x Intel® Pentium™ Processor 2.00GHz
Memory	4 GB	16Gb	1.5Gb
Local Disk	System 2 x 36GB (RAID 1) Data = 2 x 146 (RAID 1)	250 GB Raid 1 disk drive(s) 250 GB stand along disk drive	System 1 x 80GB
OS	Red Hat Linux ES 3 (RPM 2.4.21-20.0.1)	Fedora Core 3 (64 bit) OS	Windows XP Professional

Table 1 - Platform Testing Environment

Software requirements

The software listed here is not included in LexEVS. You must download and install this required software from other sources (listed in Table 2). The software name, version, description, and URL hyperlinks for downloads are indicated in the table.

Software Name	Version	Description	URL
Java Software Development Kit (SDK):Java 2 Standard Edition (J2SE)	j2sdk1.5.0_04 or higher	The J2SE Software Development Kit (SDK) supports creating J2SE applications	http://java.sun.com/javase/downloads/
MySQL Database*	MySQL (5.0.45) or higher	MySQL 5 Community Edition	http://downloads.mysql.com/archives.php?p=mysql-5.0&v=5.0.45
PostgreSQL*	8.x or higher	Open source relational database management system	http://www.postgresql.org/
JBoss	4.0.5 or higher	application server	http://www.jboss.org/
Apache Tomcat	5.x or higher	servlet container	http://tomcat.apache.org/

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*MySQL or PostgreSQL installation is required.

Table 2 - Required software and technology for the LexEVS

NOTE:	 <p>Some database drivers are not included with the LexEVS installer. Downloaded drivers are placed in the <code>{LEXEVS_DIRECTORY}/runtime/sqlDrivers</code> and the <code>{LEXEVS_DIRECTORY}/runtime-components/sqlDrivers</code> directories</p>
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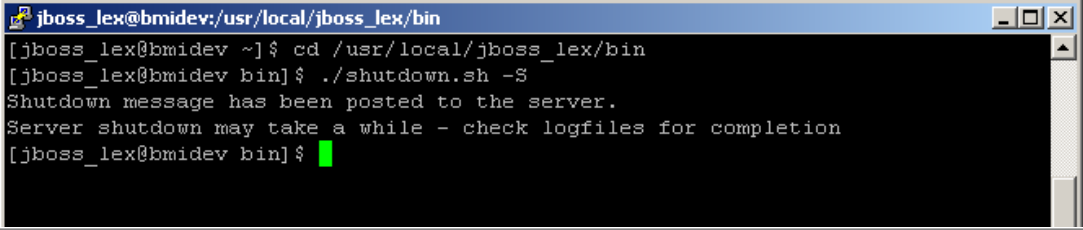
Downloading and installing the LexEVS Grid Services

NOTE:	 <p>LexEVS Grid Services requires that LexBIG (soon to be called LexEVS local runtime) be installed and an appropriate database connection configured. Since database loads do not occur in LexEVS Grid Services, they must be done from the local LexEVS local runtime iteration. The Grid services access LexEVS via a web interface, therefore the web-enabled LexEVS must be installed as well.</p>
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 WARNING	Do not attempt to deploy both data and analytical services in the same jboss container.
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Complete the following steps to download and install the LexEVS Grid Services API.

Note that the screenshots are examples provided for clarification. The version numbers on your filenames may be different.

Step	Action
1	To download the LexEVS Grid Services API war file go to the NCI GForge web site https://gforge.nci.nih.gov/frs/?group_id=491 
2	Select the most recent version and type of the LexEVS Grid Services API war file. Examples: LexEVS_50_caGridServices_tomcat.war, LexEVS_50_caGRIDSservices_data_jboss.zip, LexEVS_51_caGridServices_tomcat.war, LexEVS_51_caGRIDSservices_data_jboss.zip. You may have a choice between war files tailored for jboss or tomcat installations. Save this file to your computer. You may have to disable pop-up blockers to allow save the install package to your local computer. Select either the Analytical or Data Grid service zip.
3	Shut down your application or servlet container.
	 <pre> jboss_lex@bmidev:/usr/local/jboss_lex/bin [jboss_lex@bmidev ~]\$ cd /usr/local/jboss_lex/bin [jboss_lex@bmidev bin]\$./shutdown.sh -S Shutdown message has been posted to the server. Server shutdown may take a while - check logfiles for completion [jboss_lex@bmidev bin]\$ </pre>
4	<p>If you are running Jboss unzip the file download to the directory inside named wsrf.war and do so to the <Jboss root directory>/server/default/deploy directory. Navigate to the WEB-INF/classes folder and edit the application-config-client.xml file changing all references to the application service url for your web-enabled LexEVS as follows:</p> <ul style="list-style-type: none"> ■ replace @SERVER_URL@ with <your lexevsapi server>/lexevsapi<XX> ■ <entry key="APPLICATION_SERVICE_URL" value="@SERVER_URL@/http/applicationService"/> ■ <property name="serviceUrl" value="@SERVER_URL@/http/applicationService"/> ■ (optional) <ul style="list-style-type: none"> ■ <property name="serviceUrl" value="@SERVER_URL@/http/remoteAuthenticationManager"/> <p>If you are running Tomcat, just unzip the LexEVSGridService.zip to the webapps directory. After Tomcat expands the directory, you may make the same changes to the application-config-client.xml.</p> <p>The Grid Data Services war will have a separate application-config-client.xml file that will be similarly edited and placed in the WEB-INF/classes folder of the exploded war file.</p>

```

jboss_lex@bmiddev:/usr/local/jboss_dat/server/default/deploy
jboss-xa-jdbc.rar
[jboss_lex@bmiddev deploy]$ cd ../../../../jboss_dat/
[jboss_lex@bmiddev jboss_dat]$ ls
bin      copyright.txt  lgpl.html    readme.html  server
client  docs          lib          readme_j2ee.html
[jboss_lex@bmiddev jboss_dat]$ cd server/default/deploy/
[jboss_lex@bmiddev deploy]$ ls
bsh-deployer.xml          jms
cache-invalidation-service.xml  jmx-console.war
client-deployer-service.xml    jmx-invoker-service.xml
ear-deployer.xml            jsr88-service.xml
ejb-deployer.xml           mail-ra.rar
hsqldb-ds.xml              mail-service.xml
http-invoker.sar          management
jboss-aop.deployer        monitoring-service.xml
jboss-bean.deployer       properties-service.xml
jboss-ha-local-jdbc.rar    properties-service.xml.bak
jboss-ha-xa-jdbc.rar       schedule-manager-service.xml
jbossjca-service.xml      scheduler-service.xml
jboss-local-jdbc.rar       sqlexception-service.xml
jbossweb-tomcat55.sar     uuid-key-generator.sar
jbossws14.sar             wsrf.war
jboss-xa-jdbc.rar
[jboss_lex@bmiddev deploy]$

```

5 Restart the container

```

jboss_lex@bmiddev:/usr/local/jboss_lex/bin
[jboss_lex@bmiddev bin]$ ./run.sh

```

6 Verify the installation by navigating to <your server's address>/wsrf/services/cagrid/LexEVSGridService or <your server's address>/wsrf/services/cagrid/LexEVSDataService. The user should see a typical Axis service message.

cagrid/LexEVSGridService

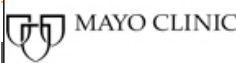
Hi there, this is an AXIS service!

Perhaps there will be a form for invoking the service here...

Troubleshooting

Deployment errors may occur if all instances of references in the application-config-client.xml are not correctly configured with the web address of a web-enabled LexEVS instance.

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