

Running Xindice with Tomcat

1.1

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1. Intended audience

This How-to is aimed at developers or administrators who want to install Xindice with Tomcat.

2. Prerequisites

The most important prerequisite is patience. Take lots of deep breaths. It will work. It just might take some time.

- You should have already compiled Xindice.
- You must have an existing installation of Tomcat. You should use version 4.1.12 or higher. You can download [Tomcat](#) from the Jakarta website.
- Be sure to set the CATALINA_HOME environmental variable to point to the location of your Tomcat installation.

3. Steps

3.1. Place holders used in the Steps

- {XINDICE_HOME} - Directory where you have unzipped your Xindice source files.
- {JAVA_VERSION} - Installed JDK Version.

3.2. Copy the WAR file

If you've followed the prerequisites, then you will have a working version of Tomcat installed, and the sources of Xindice compiled. Now, copy the `xindice-*.war` file from {XINDICE_HOME} to the `%CATALINA_HOME%/webapps`.

Warning:

It is important to rename the file while copying to the `xindice.war`, as name of the file defines context name, and Xindice clients and tools use `xindice` context name by default.

Here's what that looks like in Windows:

```
> cd {XINDICE_HOME}
> dir xindice-*

Directory of {XINDICE_HOME}

09/27/2007  09:24 PM                628,694 xindice-1.1.jar
```

```
09/27/2007 09:24 PM          5,184,315 xindice-1.1.war
09/27/2007 09:24 PM              1,791 xindice-1.1.xml
09/27/2007 09:24 PM          6,535 xindice-dom-1.1.jar
          4 File(s)          5,821,335 bytes
          0 Dir(s)    3,745,992,704 bytes free

> copy xindice-1.1.war %CATALINA_HOME%\webapps\xindice.war
1 file(s) copied.
```

If you are using Linux, your session might resemble:

```
$ cd {XINDICE_HOME}
$ ls xindice-*
xindice-1.1.jar      xindice-1.1.war      xindice-1.1.xml
xindice-dom-1.1.jar
$ cp xindice-1.1.war $CATALINA_HOME/webapps/xindice.war
```

3.3. Edit the Tomcat's server.xml File (Optional)

Tomcat will automatically deploy copied war file with the default settings. To modify those defaults, `CATALINA_HOME/conf/server.xml` file should be edited. Suggested changes for the server.xml file are contained in the `{XINDICE_HOME}/xindice-1.1.xml` file.

3.4. Restart Tomcat

Restart your Tomcat server to be certain that it picks up the Xindice servlet. This step is required if you have edited `CATALINA_HOME/conf/server.xml` file. In other cases, it is usually not required.

Here's what that looks like in Windows

```
> cd %CATALINA_HOME%\bin
> startup
Using CATALINA_BASE:   D:\jakarta-tomcat-4.1.12
Using CATALINA_HOME:   D:\jakarta-tomcat-4.1.12
Using CATALINA_TMPDIR: D:\jakarta-tomcat-4.1.12\temp
Using JAVA_HOME:       C:\j2sdk{JAVA_VERSION}
```

Note:

In this example, I have installed Tomcat in `D:\jakarta-tomcat-4.1.12`. If you've installed it in another location, just ensure that the `CATALINA_HOME` environmental variable points to your Tomcat installation directory, or substitute that path for `D:\jakarta-tomcat-4.1.12`.

Here's what that might look like on Linux

```
$ cd $CATALINA_HOME/bin
$ ./catalina.sh start
Using CATALINA_BASE:   /var/tomcat4
Using CATALINA_HOME:   /var/tomcat4
Using CATALINA_TMPDIR: /var/tomcat4/temp
Using JAVA_HOME:       /usr/java/jdk{JAVA_VERSION}
```

Note:

The name of the Tomcat installation directory may differ for your Linux platform. The default location is `/var/tomcat4`. If you are unsure of the location, check the `tomcat4.conf` file in your `/etc/tomcat4` directory.

Warning:

If you installed the RPM version of Tomcat v4.x, you may need to enter `"tomcat4 start"` to invoke the Tomcat server. The FreeBSD version of Tomcat may be using `tomcat4ctl`.

3.5. Verify the installation

When Tomcat restarts on Windows, you should see a new window open entitled 'Tomcat', and it should look something like this. (Note the xindice classes loading.)

```
Nov 21, 2002 1:42:07 PM org.apache.commons.modeler.Registry loadRegistry
INFO: Loading registry information
Nov 21, 2002 1:42:07 PM org.apache.commons.modeler.Registry getRegistry
INFO: Creating new Registry instance
Nov 21, 2002 1:42:08 PM org.apache.commons.modeler.Registry getServer
INFO: Creating MBeanServer
Nov 21, 2002 1:42:09 PM org.apache.coyote.http11.Http11Protocol init
INFO: Initializing Coyote HTTP/1.1 on port 8080
Starting service Tomcat-Standalone
Apache Tomcat/4.1.12
Nov 21, 2002 1:42:21 PM org.apache.xindice.core.Database setConfig
INFO: Database points to D:\jakarta-tomcat-4.1.12\bin\.\db
Nov 21, 2002 1:42:23 PM org.apache.xindice.server.XindiceServlet init
INFO: Database successfully started
Nov 21, 2002 1:42:24 PM org.apache.coyote.http11.Http11Protocol start
INFO: Starting Coyote HTTP/1.1 on port 8080
Nov 21, 2002 1:42:24 PM org.apache.jk.common.ChannelSocket init
INFO: JK2: ajp13 listening on tcp port 8009
```

```
Nov 21, 2002 1:42:24 PM org.apache.jk.server.JkMain start
INFO: Jk running ID=0 time=20/70
config=D:\jakarta-tomcat-4.1.12\conf\jk2.properties
```

Here's what the `$CATALINA_HOME/logs/catalina.out` output looks like on Linux

```
[INFO] Registry - -Loading registry information
[INFO] Registry - -Creating new Registry instance
[INFO] Registry - -Creating MBeanServer
[INFO] Http11Protocol - -Initializing Coyote HTTP/1.1 on port 8080
Starting service Tomcat-Standalone
Apache Tomcat/4.1
Server 1.6 is running
Press [Ctrl]+[C] to abort
[INFO] Http11Protocol - -Starting Coyote HTTP/1.1 on port 8080
[INFO] ChannelSocket - -JK2: ajp13 listening on tcp port 8009
[INFO] JkMain - -Jk running ID=0 time=4/168
config=/var/tomcat4/conf/jk2.properties
```

In addition, you should be able to verify that xindice is running by loading this URL in your browser `http://localhost:8080/xindice`. If it works, you should see the Xindice "List Databases" page which allows you to browse the contents of the database.

If you run into problems, don't worry. Be sure to send [feedback](#) so that we can improve these documents for the next person.