

Windows Services

Introduction

The [Elixir Windows Service.pdf](#) is a reference guide for installing the Elixir Repertoire Server Windows Service. It covers the following:

- Installing Elixir Repertoire Server and License Key
- Installing the Windows Service
- Activating the Windows Service
- Testing the Windows Service

Requirements

Before installing the Elixir Repertoire Server Windows Service, the following are required:

1. A complete installation and setup of Elixir Repertoire Server (ver 7.x and above)
2. A valid license key

Run Server as a System Service

Elixir Repertoire Server allow you to run as system service in the various platform such as Windows and Unix. Setting up Repertoire Server to run as service will vary between platforms and will require some system administration knowledge and root privileges. The steps in brief are as follows:

Running Server as a Service in Windows

On a Windows system, we provide a utility, Java Service Wrapper, to deploy the server as a Window service.

The server root directory, *bin/windows-service*, contains all the necessary files to run Repertoire Server as a Windows service. The only step is to execute **windows-install-ERS-Service.bat** after you have finalized the configuration. You may test to see if the installation was successful by running the console based application script, **windows-ERS-app.bat**.

The configuration of the server as Java VM option and class path is kept in the *bin/windows-service/wrapper.conf* file. You are able to modify the Windows service information as display name and description of the service. The details are described in the configuration file.

The configuration allows you to create multiple instance of the server to run as services. The name has to be unique. The *bin/windows-service* directory also contains a dll called **wrapper.dll** that links any Java application and the Windows service. The Java VM location is set by using the **wrapper.java.command** property. You may hard code the path or use system

path as **wrapper.java.command=%JAVA_HOME%/bin/java** where %JAVA_HOME% is the window system property The logs of the Java Wrapper activities is stored in the Wrapper log in the server directory. You can limit the size of the wrapper.log file and enable log rolling.

For example, the following properties will configure the wrapper to roll the log file when it reaches 1MB in size and then keep the 5 most recent files. This will use a maximum of 5MB of disk space. You can set the numbers even smaller of course if you want. (Use k for kilobytes).

wrapper.logfile.maxsize=512k

wrapper.logfile.maxfiles=5

To completely disable logging to the file, set the log level to the file to NONE like this:

wrapper.logfile.loglevel=NONE

To install, execute the **windows-service/windows-install-service.bat**, go to **Control Panel > Administrative Tools > Services**. You should see Elixir Report Server installed as a service there. You can start and stop the service from this console or set the service state on startup.

To remove it from the list of services, execute **windows-service/windows-uninstall-service.bat**, which will stop the service if it is running and remove it from the list of installed services.

Refer to <http://wrapper.tanukisoftware.org> for documentation and details on the Java Service Wrapper.

Running Server as a Service in Linux (Centos 5)

The server can be configured to be part of the bootup sequence in the Linux Operating system. The following steps detail how to deploy the script to Centos 5 a variant of Linux OS.

1. Create an init script for Repertoire Server in */etc/init.d* directory.
2. Deploy into a different run level using **chkconfig** as described in the init script. More details for **chkconfig** is found at http://wiki.caoslinux.org/Startup_scripts_with_service_and_chkconfig.
3. Replace the default Java shipped in Linux with Sun's Java or other vendor's JVM (version 1.5.0 or later) and setup the appropriate path.
4. Set the Java to run in background in the startup script of Repertoire Server as **startServer.sh** and **stopServer.sh** scripts. This is **important** as it may cause the OS to appear as hung if Java is running as foreground.
5. Deploy Repertoire server license in *ext* directory of Repertoire Server.

[Here is a sample script](#). This script has been tested on Centos 5 and Sun Java Linux, 1.6.0_01.

Running Server as a Service on x64 Architecture

The wrapper above was compiled for x32 architecture. The 32-bit wrapper would still function as expected. This means that it would still start the Repertoire Server if a reboot is executed on the machine. This has been tested for x64 architecture. However, a warning is logged when a 64-bit JVM is used for the 32-bit wrapper.

Warning

```
STATUS | wrapper | 2009/04/17 17:17:12 | Elixir Repertoire Server removed.
STATUS | wrapper | 2009/04/17 17:17:48 | Elixir Repertoire Server installed.
STATUS | wrapper | 2009/04/17 17:17:51 | --> Wrapper Started as Console
STATUS | wrapper | 2009/04/17 17:17:52 | Launching a JVM...
INFO | jvm 1 | 2009/04/17 17:17:53 | Wrapper (Version 3.2.3)
http://wrapper.tanukisoftware.org
INFO | jvm 1 | 2009/04/17 17:17:53 | Copyright 1999-2006 Tanuki Software, Inc. All
Rights Reserved.
INFO | jvm 1 | 2009/04/17 17:17:53 |
INFO | jvm 1 | 2009/04/17 17:17:53 |
INFO | jvm 1 | 2009/04/17 17:17:53 | WARNING - Unable to load the Wrapper's native
library 'wrapper.dll'.
INFO | jvm 1 | 2009/04/17 17:17:53 | The file is located on the path at the following
location but
INFO | jvm 1 | 2009/04/17 17:17:53 | could not be loaded:
INFO | jvm 1 | 2009/04/17 17:17:53 | C:\Repertoire-Server-
7.5.0\RepertoireServer\bin\windows-service\wrapper.dll
INFO | jvm 1 | 2009/04/17 17:17:53 | Please verify that the file is readable by the
current user
INFO | jvm 1 | 2009/04/17 17:17:53 | and that the file has not been corrupted in any
way.
INFO | jvm 1 | 2009/04/17 17:17:53 | One common cause of this problem is running a
32-bit version
INFO | jvm 1 | 2009/04/17 17:17:53 | of the Wrapper with a 64-bit version of Java, or
vica versa.
INFO | jvm 1 | 2009/04/17 17:17:53 | This is a 64-bit JVM.
INFO | jvm 1 | 2009/04/17 17:17:53 | Reported cause:
INFO | jvm 1 | 2009/04/17 17:17:53 | C:\Repertoire-Server-
7.5.0\RepertoireServer\bin\windows-service\wrapper.dll: Can't load IA 32-bit .dll on a AMD 64-
bit platform
INFO | jvm 1 | 2009/04/17 17:17:53 | System signals will not be handled correctly.
INFO | jvm 1 | 2009/04/17 17:17:53 |
INFO | jvm 1 | 2009/04/17 17:17:53 | Elixir Server
INFO | jvm 1 | 2009/04/17 17:17:53 | JDK Version: 1.6.0_13
INFO | jvm 1 | 2009/04/17 17:17:53 | Home: C:\Repertoire-Server-7.5.0\RepertoireServer
```