Multiplan Consultants

JavaService
Execute Java applications as
Windows NT Services

JavaService

Introduction

The JavaService utility allows a Java application to be installed and run as a Windows NT Service, with no changes required to the source code of the Java program.

Once installed, the Java-based service can be run automatically on system startup and may be controlled using the standard Windows command line or Services Administration tools.

This functionality is for use by server-type programs, written in Java, that run in the background on the Windows platform; this is similar to 'daemon' processes that run on Unix.

Features and Benefits

• Command interface to install, configure and uninstall JavaService applications
• Java program source code needs no changes for use as a service
• Scripts included for installation of widely-used application server software
• Program output sent to configured log files
• Example Java program code provided
• Support available from forums on the ObjectWeb software forge

Technical Features

• Works with the locally installed Java run-time environment
• Supports Java 1.1, J2SE and Java 5
• Tested against Windows NT, Windows 2000, Windows XP and Windows Server 2003.
• Makes use of the Registry, Event Logger and Services Administration facilities of Windows
• Available for 32-bit and 64-bit platforms

Description

JavaService can be used to run any Java application that operates in the background without a user interface. This makes it particularly useful for application servers or system monitoring programs. It has also proved to be a good solution for running test tools or server stubs that accept network connections from application software in development or test environments.

All standard Java programs have at least one class and a public static 'main' function. Given this information, and details of the local Java Run-time Environment, JavaService can be used to install the program as a service. For example, a program with the class *org.objectweb.MyService* can be installed using a command similar to the following:

```
> JavaService –install MyService
      %JRE_BIN%\jvm.dll
      –start org.objectweb.MyService
```

The program can then be configured via Windows for automatic startup, or controlled with the commands:

```
> net start MyService
```

```
> net stop MyService
```

All service configuration details are held in the Windows System Registry, and can be viewed using the command:

```
> JavaService –queryconfig MyService
```

All entries are cleaned up when removing the service using the command:

```
> JavaService –uninstall MyService
```

ObjectWeb
Open Source Middleware

History

The JavaService utility was originally provided in April 2000 by Alexandria Software Consulting, under a BSD-style licensing agreement.

Alexandria provided updated versions through to April 2001, but is no longer contactable.

Multiplan Consultants Ltd provided the software for download from November 2002 with features and fixes included in newer releases.

Since 2004, JavaService has been hosted as an open source project by the ObjectWeb consortium, with project administration and ongoing development still performed by Multiplan.

All newer versions of the software are available for download and use against the terms of the LGPL license.

Partners

Multiplan Consultants Ltd is a UK-based consultancy with expertise in the full software development lifecycle for applications targeting cross-platform systems and environments.

Development and maintenance of the JavaService project software is provided with ongoing contributions by Multiplan, as well as other individuals from the Open Source Community.

More information about Multiplan Consultants is available at www.multiplan.co.uk.

About ObjectWeb

ObjectWeb is a consortium of leading companies and research organizations from around the world who have joined forces to produce the next generation of Open Source Middleware. ObjectWeb's goal is to provide Real-Time Enterprises with independent solutions which combine quality and robustness at the best possible performance/cost ratio. ObjectWeb targets alternative solutions to proprietary products for e-business, EAI, data connectivity, grid computing, and enterprise messaging applications. Based on Open Standards, ObjectWeb's middleware includes application servers, components, frameworks and tools. Examples of ObjectWeb's "cost killer" middleware are JOnAS – an Open Source implementation of the J2EE specification, JORAM JMS – a Message-Oriented Middleware, and Enhydra – a Java/XML application server. Founded in 2002 by Bull, France Telecom and INRIA, ObjectWeb is hosted by INRIA, and is sponsored by Together Teamlösungen GmbH. To find out more about ObjectWeb, visit our web site at http://www.objectweb.org.

Download JavaService at javaservice.objectweb.org