



Neil Fenton
Chairman and Founder
10Duke

10Duke SDK

10Duke develops advanced web services for some of the leading consumer and technology brands in the world, using the 10Duke SDK, a Java based application development framework. To make it easier to package, deploy and run its applications as a cross-platform system service, 10Duke has come to rely on the Java Service Wrapper by Tanuki Software.

In this Case Study, we talked with Neil Fenton from 10Duke about some of the issues which led them to choose the Java Service Wrapper.

Profile

Company: 10Duke
Location: United Kingdom & Finland
Industry: Software
Site: <http://www.10duke.com/>

Background

10Duke is a software company that distributes the 10Duke SDK, a rapid application development framework for creating elastic applications. Their clients use the 10Duke SDK to create their own applications, and 10Duke uses it themselves to create applications internally and for clients. As their focus is on application build and deployment, they were interested in anything that can make this process faster, and makes the daily life of their customers easier.



Challenges

10Duke has the on going goal of making their SDK easy to use for their customers, and to do this in the most efficient way as possible. They needed a way to make the configuration, setup, and installation of new applications painless and reliable, on a wide range of platforms. Quality is a top concern of 10Duke. Their SDK is an integral part of mission critical systems developed by and for their customers. Despite the high quality of their SDK, they were looking for ways to make applications developed with their SDK as reliable as possible.

Solutions

10Duke has benefitted from the JSW in 3 main ways. The ease of configuration, efficiency and light resource footprint, the ability to run their applications as a system service, and safety of knowing that their applications are being constantly monitored.

A major concern in the enterprise landscape using Java as a base technology is that deployments and applications become so resource hungry that infrastructure cost rockets sky high with memory and CPU requirements that are simply not justifiable. 10Duke solved this challenge by combining the Java Service Wrapper, Jetty in embedded mode, and the 10Duke SDK into:

“An unbeatable application development and deployment model.”

They run complex full blown enterprise grade systems with application server processes needing less than 10 megs of memory. A normal startup time of the application server process is approximately 1 second.

It is cumbersome to start a Java application manually. The Java Service Wrapper has made this process much more manageable. The verbose repetitive typing of command line arguments can be skipped by using the Wrapper. 10Duke makes use of a template Wrapper configuration file which helps with packaging new applications for deployment. This approach saves a significant effort in building, deploying and managing applications.

Case Study

10Duke

Additionally, the Java Service Wrapper makes it easy to run an application as a system service where required. The Wrapper fully encapsulates the concerns of installing and managing an operating system service. It also provides this as a cross platform ability on all relevant operating systems. The Java Service Wrapper is stable, efficient and works reliably cross-platform (10Duke primarily uses Linux but tests and develops on Windows and Mac as well). As the 10Duke SDK supports cross-platform applications, and is used to build many crossplatform online services, that capability in the Wrapper is essential for them.

“The Wrapper gives 10Duke the ability to pull together a full server side application in one tight and elegant package.”

10Duke sports an impeccable track record of absolutely 0 application server crashes in more than 50 system deployments over the past 4 years. None the less, they consider the Wrapper’s capability to monitor and automatically restart the JVM and the application in case of problems a must have enterprise grade safety-net feature.

“Our clients include some of the world’s leading consumer and technology brands and the requirements we have are very tough. The combination of Tanuki’s Java Service Wrapper and 10Duke SDK simply deliver every time and has always produced the most positive feedback from our demanding clientele. Because of the tight packaging we’ve been able to ensure between the 10Duke SDK libraries and the Wrapper, this is also a potent technical combination that our SDK clients can also take advantage of themselves.”

10 Duke Software, Ltd.



To learn more about 10Duke and the 10Duke SDK, please visit <http://www.10duke.com>

10Duke is Europe’s leading provider of technology for rapid application development. It specializes in enabling companies in the sports, entertainment, construction and telecommunications industries to develop elastic software applications that connect people, services, products and information online.

Its core product, the 10Duke SDK, is a graph-based rapid application development kit for the creation of elastic online applications. It enables the quick, stable and inexpensive development of advanced services for the web, mobile and desktop. It can be used to create greenfield applications or to extend the lifecycle and enhance the feature set of existing enterprise applications.

While the 10Duke SDK can be used to create virtually any type of software application, four solution areas in which it is particularly useful include creating applications and platforms for the Cloud, Video Content Management and Distribution, creating Social Enterprise Applications, and for creating Social CRM and Social Support applications. Reporting and Business Intelligence are natively part of applications built using the 10Duke SDK.

Tanuki Software is the market leader in the development of products to increase the reliability and portability of applications built on Java. Our Java Service Wrapper product suite allows businesses and developers to rapidly deploy reliable Java based solutions on a wide variety of platforms in a consistent way. The Wrapper is a highly configurable tool which not only allow Java applications to be installed and controlled like native Windows Services or UNIX daemon processes, but also includes advanced fault detection software which monitors and reacts to problems, helping to guarantee 24/7 uptime of mission critical applications.

“Tanuki Software's customers rely on us for our reliability, excellent quality, and fast response times.”

All of which have a lasting impact on the long term cost performance of the Products we provide and the projects we are involved with. Our customers includes some the world's largest companies representing wide range of industries.

Tanuki Software, Ltd.



To learn more about Tanuki Software and the Java Service Wrapper, please visit <http://www.tanukisoftware.com>

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