

A decorative graphic consisting of numerous thin, overlapping lines in shades of blue and red, forming a series of wavy, undulating shapes that sweep across the upper half of the page.

UNILOGIK STATE OF JAVA REPORT

SHOULD YOU REPLACE ORACLE JDK WITH OPENJDK?

This report discusses the implications of Oracle's transition to a paid support model, highlighting the choice organizations face between Oracle JDK and the community-driven OpenJDK.

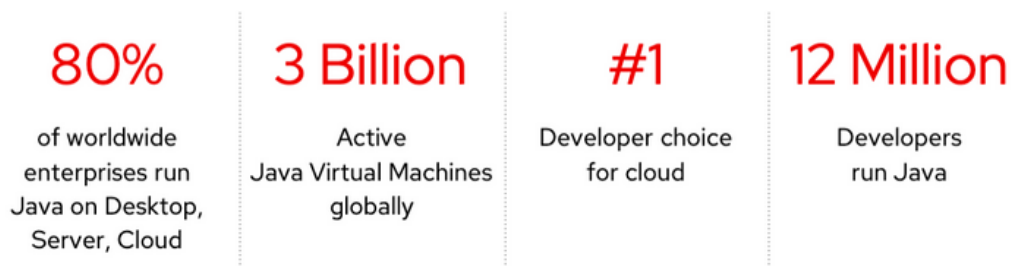
To learn more, contact Unilogik

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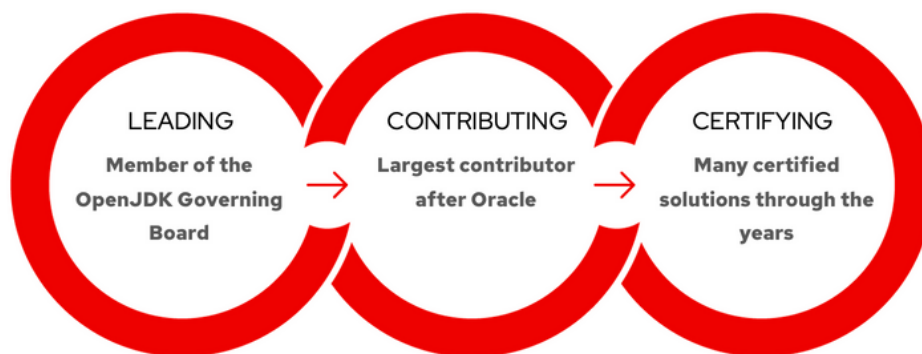
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The State of Java

Billions of devices run Java™ worldwide. Until January 2019, no one had to pay for access to a current Java Virtual Machine (JVM), but Oracle implemented a significant change to its release cadence and support model multiple times since then. Oracle JDK is not free for production workloads and patches, leaving organizations with a choice to either pay Oracle for continued production support and updates for OracleJDK, or migrate to an alternative OpenJDK implementation.



Red Hat has a Long History with OpenJDK



Red Hat takes over OpenJDK Stewardship

- On April 17, 2019, Red Hat announced that it was assuming the stewardship of the OpenJDK 8 and OpenJDK 11 projects following a transition of leadership from Oracle
- With the transition, Red Hat is affirming its support of the Java community and following a similar path that led to its leadership of both the OpenJDK 6 and OpenJDK 7 projects
- Red Hat also worked with the community to enable continued innovation in Java, e.g. Shenandoah garbage collector included in OpenJDK 12

Advantages of OpenJDK

Community-Driven Development:

OpenJDK is developed collaboratively, ensuring a flexible and responsive platform.

Transparency and Security:

OpenJDK's open nature allows for easy identification and resolution of security vulnerabilities.

Flexibility and Customization:

Developers can tailor OpenJDK to meet specific requirements, enhancing performance and integration.

Compatibility and Interoperability:

OpenJDK is compatible with Java SE, ensuring applications can run on any Java SE-compliant platform.



Security: latest bug and vulnerability fixes



Operation and maintenance savings



No proprietary licenses



Red Hat software maintenance for the benefit of all customers



Long-term support and stability



Minimal unplanned downtimes and faster resolution times



Cost-effective and included in Red Hat Enterprise Linux, Red Hat OpenShift and Red Hat Application Services



Peace of mind

Large online bank

“With a well-defined phased approach, migrating from Oracle JDK to Red Hat build of OpenJDK is a smooth transition.”

CHALLENGE

Enhance supportability of the Java application portfolio and avoid Oracle JDK license cost, for both server and Windows desktop/laptop installations.

SOLUTION

Combined, the customer had more than 3,500 JBoss® Enterprise Application Platform and Apache Tomcat instances, which it grouped by environment (dev, stage, test, pre-prod, prod, maintenance) to carry out migration from Oracle JDK to Red Hat build of OpenJDK in a phased manner.

The customer was able to successfully and easily migrate all instances while staying at the same version level.

RESULTS

- **Standardized Java development and production environments on Red Hat build of OpenJDK**
- **Smooth migration with assistance from Red Hat**
- **Single vendor for Java applications across the stack**
- **Reduced support and maintenance cost**

Large airline

“Red Hat consultants and Red Hat support did an outstanding job helping us and our vendors with the transition of the ‘nasty 1%’ of applications”

CHALLENGE

Enhance supportability of the Java application portfolio and avoid Oracle JDK license cost, while coordinating with external vendors.

SOLUTION

With an up-front analysis, the airline could identify outliers and build a strategy to migrate all applications in a phased manner. As an additional benefit, the analysis provided them with a list of candidate applications to be moved to containers in the next phase.

Given the complex company organisational structure with a majority of applications developed externally, analysis, planning and coordination was crucial.

With assistance from Red Hat, successfully and easily migrated all applications, with a special focus on critical, Swing-based frontend crew planning applications

RESULTS

- ▶ Standardized Java development and production environments on Red Hat build of OpenJDK
- ▶ Avoided license cost for Oracle JDK

What to Expect When Migrating

- Smart, predictable, methodical migration
- Significant cost savings with no Oracle license fees
- Minimal security risks of community build of OpenJDK every 6 months
- On-par performance with Oracle JDK
- Multiple versions with consolidated JDKs across the entire environment
- Harnessed innovation from Java community and multiple other vendors
- Red Hat build already included in Red Hat Enterprise Linux, Red Hat OpenShift, and Red Hat Middleware subscriptions

Partner with Unilogik Systems and schedule an OpenJDK discovery session:

- Discuss current inventory and status quo, and look at different JDK options
- Jointly walk through automated migration analysis of the application portfolio or a subset

Result:

- ✓ Gain a good understanding of tooling and process
- ✓ An initial analysis, recommendation, and migration plan

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