

Make the move from Oracle JDK to OpenJDK

Oracle JDK is Oracle's supported Java Platform, Standard Edition (SE), used for developing, testing, prototyping, or demonstrating Java applications.

OpenJDK offers a free alternative

OpenJDK is a free and open source implementation of Java SE.

Make migration effortless with OpenLogic

OpenLogic ensures consistent uptime for critical applications that use open source software. We support the top open source packages for issues encountered in both development and production environments, ranging from configuration issues to functional failures.

With the complete set of open source support, training, and consulting, you can avoid downtime and wasted cycles. For Java migration, the OpenLogic open source support team can help with the transition, and let you focus on features and value.

[Oracle announced](#) that, effective January 2019, public updates for Oracle Java SE 8 will no longer be available for business, commercial, or production use without a commercial license.

This change to the support model means Java development teams must examine their licensing and support needs to consider alternatives — with many development teams already moving from Oracle JDK to the free OpenJDK.

Rogue Wave OpenLogic enterprise architects and developers will support your migration and platform, making it painless and secure, and getting your team up and running quickly on a more cost-effective solution.

Cost comparison: Oracle JDK vs. OpenLogic

Based on the [price of an Oracle Java SE subscription](#), which includes licensing and support, we've put together a conservative estimate of the annual cost savings you can expect from migrating to the free OpenJDK license with OpenLogic support. Whether you have a small or large core user base, the savings are substantial.

Number of core users	Number of servers	Oracle's annual price	OpenJDK price	OpenLogic annual price: Silver Support	OpenLogic annual price: Gold Support
512	32	\$92,160	\$0	\$24,200	\$30,880
992	62	\$179,280	\$0	\$42,200	\$56,080

The above comparison assumes the following:

- Most servers have dual, octa-core CPUs for a total of 16 cores
- The average user is in the 500-999 core tier priced at \$20/core/month (based on most recent Oracle Java SE Subscription Global Price List)
- The average customer has negotiated a 25% discount from Oracle

Recommendations for migration

The OpenLogic team has tackled a variety of open source migrations over the years, and has compiled recommendations to ensure your migration is as seamless as dropping in OpenJDK alongside Oracle JDK.

Before migration

- Leverage a continuous integration environment (such as Jenkins) to build code and run unit and integration tests against OpenJDK. This requires you to have a build tool such as Maven, Gradle, or Ant.
- Get a list of dependencies using your build tool, and then perform an inventory analysis to determine any APIs that may be at risk of breaking.

During migration

- Performance test your application running on OpenJDK. We have noticed that many customers tend not to write thorough performance tests that hit all functions in their application. Additionally, make sure that when you push new code that the performance test scripts are updated appropriately.
- Test any sort of OS integration thoroughly. For example, are you doing any calls out to the operating system specific to that OS like Windows, or using any private APIs? The key terms to look for are any calls to Java Native Interface (JNI) or Java Native Access (JNA). We discourage customers from making native calls out to the operating system because it makes the application less portable.
- Be aware that there can be quirks with the memory management algorithm used between OpenJDK and Oracle JDK. However, this is rare, and performance testing should reveal any issues.

The OpenLogic difference: What we offer developers

- Rapid migration services from Oracle JDK to OpenJDK
- Guaranteed service level agreements (SLAs) with all support contracts
- Two support levels: 24x7 Gold and 12x5 Silver with one number to call
- Lower-cost service than vendor-specific providers
- Direct access to Tier 3/4 open source architects and developers

In addition to OpenJDK, our open source experts support 400+ packages across the entire technology stack, including Jenkins, Jira, Artifactory, CentOS, Ubuntu, Apache HTTPD, and NGINX — to name just a small sample. See more of the packages we support at roguewave.com/oss.

Learn more,
and get a customized
support quote:
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