Azul Platform Core: Azul Zulu Builds of OpenJDK Optimized for Distribution

Azul Platform Core provides commercial support for customizable, open source builds of OpenJDK for embedded, IoT, bundling and other distribution use cases.

Why Distribute with Azul Platform Core™

Azul Platform Core supports Azul Zulu Builds of OpenJDK, fully certified, customizable and 100% open source Java Development Kits (JDKs) offering distribution options for ISVs and embedded device OEMs. Azul Zulu JDK binaries are based on source code from the OpenJDK project (openjdk.java.net) and are designed to allow companies to leverage the latest advances in Java SE (Standard Edition) for use cases requiring a Java runtime. With extended support for multiple Java versions (e.g., 7 and 6), Azul Zulu JDK is ideal for devices that require regular Java updates (e.g., bug fixes and security patches), including older or end-of-life versions of Java. Azul Zulu JDK can be customized to meet the specific needs of your embedded device, including operating system (Linux, Windows, macOS, Solaris, QNX), CPU architecture (x86, Arm, PPC, SPARCv9, MIPS), bitness (32- or 64-bit), Java patch level, and disk and memory sizes (including Compact Profiles, Java 8 only).

Fully Certified Standards Compliant

Each Azul Zulu JDK binary is verified compliant with the Java SE specifications using the OpenJDK community Technology Compatibility Kit (TCK) licensed from Oracle. The TCK is a suite of more than 120K unit tests which ensures that each binary build of OpenJDK meets all the specifications of the individual JSRs (Java Specification Requests) for a given version of Java SE (e.g. Java 17). Each Azul Zulu JDK binary carries additional protection granted by passing the TCKs as defined by the Java Specification Participation Agreement and provides extensive intellectual property rights to compatible and specification compliant implementations. Azul issues a certificate of No License Contamination for every production-supported binary.

Azul Platform Core Guarantee: Certified Non-Contaminating

Every commercial Azul JDK binary is 100% open source, but more importantly is also verified to ensure non-contamination. Through the use of specifically developed tools and analysis techniques, Azul scans and analyzes the millions of lines of OpenJDK source code and the full set of build artifacts and object materials that are produced from the OpenJDK code, including intermediate and dynamically-generated source files. The analysis covers all topological paths and relationships between any code that might run on the resulting build and all internal components. Azul verifies that the relationships between the multitude of open source and third-party licenses that exist in OpenJDK, and are used by Azul Platform Core, will not result in open source license contamination, and will not impose any additional requirements or license restrictions on your code as it runs on the Azul Zulu JDK or JRE.

Our license verification processes and tools ensure that your Java code is never contaminated by the GNU General Public License (GPL) or any other licenses that could require placing extra restrictions on the use or distribution of your code, or risking the forced sharing of your code under some specific terms, or the mandate to purchase additional third-party licenses. Note that Azul issues a certificate of No License Contamination for every production-supported binary.

Timely Maintenance Updates

Azul provides subscribers with continuous access to the latest Java security-only CPUs (Critical Patch Updates) and/or PSUs (Patch Set Updates) for all supported versions (currently 17,11, 8 and 7). These PSUs contain both Java SE bug fixes as well as security patches. Azul also backports bug fixes and security updates made to new versions of Java (e.g. 20) to older versions. Out-of-band patches may also be delivered based on the severity of the vulnerability, as defined by the National Institute of Standards and Technology (NIST) Common Vulnerability Scoring System version 3 (CVSS v3).

Azul Platform Core Features for Distribution

- Verified 100% free and open source; based on OpenJDK
- Java SE compliant as certified by OpenJDK Community TCKs
- Performance parity with Oracle JDK, including JIT compilations
- Customizable packaging from JDK & JRE to Compact Profiles
- 100% source code verified and certified non-contaminating
- Multiplatform support
  - Java 17, 11, 8, 7 and 6, plus future Long Term Support (LTS) releases
  - Windows, Linux (including Wind River & Alpine), Solaris, QNX and macOS
  - x86-32, x86-64, Arm32, Arm64, PPC32, PPC64, SPARCv9, MIPS
- Continuous access to Java Critical Patch Updates (CPU), Patch Set Updates (PSU) and bug fixes

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24x7x365 Support Offerings

While Java is a mature language, the Java runtime is a complex piece of code that is continuously evolving. As such, Azul offers its customers and their product teams' timely access to out-of-cycle patches to ensure their embedded and distributed applications are always running. Azul support offerings include a dedicated support team that can I) triage Java problems, II) identify offending code and perform root cause analysis and III) issue temporary patches or security fixes without any dependency on any other company.

With more than 20 years delivering mission-critical support for Global 1000 accounts, Azul has the dedicated teams and deep Java domain expertise to provide the commercial support that product teams need to ensure their Java applications keep running smoothly.

Distribution Use Cases for Azul Platform Core

- Internet of Things (IoT)
- Home & Building Automation
- Healthcare
- Manufacturing Automation
- Networking Equipment
- ISVs bundling Java
- Automotive
- Online Storage/NAS
- Consumer Electronics
- Home Gateways
- Point of Sale (POS) Systems

Additional Benefits of Azul Platform Core

100% Open Source

Azul Zulu JDK is based on the OpenJDK open source project and licensed under GPL v2 with Classpath Exception. Azul Zulu builds meet the Java SE (Standard Edition) specifications for versions 17,11 and 8.

Extended Product Life Cycles

Azul Platform Core versions are actively updated and maintained for at least eight years for each major Java SE release (e.g., Java 8, 11 and 17), providing extended product life cycles for your most important embedded and distribution use cases.

Migration Support

Azul Platform Core delivers turnkey migration from Oracle JDK and a well-defined migration process for other OpenJDK builds. Backed by industry-leading support SLAs and maintenance, Azul Platform Core can reduce Java support and licensing costs by at least 30% and in some cases up to 70%. Azul Platform Core also includes a number of tools for development, debugging and optimizing your Java applications.

Customizable

Azul builds can be customized to meet any device requirements, including operating system (LInux, Windows, macOS, Solaris, QNX), CPU architecture (x86, Arm, PPC, SPARCv9, MIPS), bitness (32- or 64-bit), Java patch level and disk memory sizes.

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