

# Zulu Enterprise™: Certified Builds of OpenJDK™ with Cost-Effective Timely Security Updates

## Open Source Java Standard Edition for Linux, Windows, Solaris, and macOS on x86, Arm and SPARC

### ZULU BENEFITS

#### › 100% Open Source

Zulu builds are based on the OpenJDK open source project and licensed under GPL v2 with Classpath Exception. They meet the Java Standard Edition (SE) specifications for Java 13, 11, 8, 7 and 6.

#### › New extended capabilities

Zulu Enterprise subscriptions include full support for **Java Flight Recorder** and **Zulu Mission Control** for Java 8 and higher. Zulu builds with **OpenJFX** support are also available for Java 8, 11 and 13.

#### › Use without restrictions

Builds of Zulu Enterprise are available from the Azul website and Azul repos, and can be readily and easily integrated into your development and production processes.

#### › Fully supported by Azul

With cost-effective and tiered support options, Azul's globally distributed team has over 17 years of experience supporting mission-critical Java deployments.

#### › Timely security updates

In January 2019, Oracle ended free public updates (security patches and platform-level bug fixes) for JDK 8 and JDK 11, leaving Java-based businesses with a difficult set of alternatives. Zulu Enterprise is a cost-effective way to ensure guaranteed timely access to Java security and stability updates.

#### › Medium and Long Term Support

Azul provides Medium Term Support (MTS) for JDK 13 and 15 in addition to Long Term Support (LTS) releases.

- Zulu Enterprise builds of OpenJDK are fully certified and 100% open source Java Development Kits (JDKs)
- Easy to download and use without restriction
- Built from source code maintained by the OpenJDK Project (openjdk.java.net).
- Allows developers and operations teams to leverage the latest advances in Java Standard Edition (SE).
- Supports multiple operating systems (Windows, Linux [including Alpine], macOS, Solaris), various installers and package formats (DMG, MSI, RPM, DEB, APK, etc.), processor architectures (x86, Arm, PowerPC, and SPARCv9), bitness (32- or 64-bit), Java patch levels, and disk and memory sizes where JREs, modular builds or Compact Profiles (Java 8 only) may play a part in production deployment strategies. *Zulu Enterprise supports the widest range of platforms and binary file types compared to any other OpenJDK distribution.*

**With extended support for multiple Java versions (currently JDK 13, 11, 8, 7 and 6), Zulu Enterprise is ideal for organizations and businesses that require regular Java security updates backed by strict SLAs, plus optional support for selected older versions of Java.**

### ZULU ENTERPRISE IS OPEN SOURCE JAVA

- Each Zulu Enterprise binary is verified compliant with the Java SE specification using the OpenJDK Community Technology Compatibility Kit (TCK) licensed from Oracle, a test suite of more than 120K unit tests.
- Zulu Enterprise binaries carry additional intellectual property (IP) rights granted by passing the TCKs as defined by the Java Specification Participation Agreement and provides extensive IP rights to compatible and specification compliant implementations.
- Verified Zulu Enterprise builds also undergo license non-contamination certification by Azul and provide broad indemnification against contamination issues.

### TIMELY SECURITY UPDATES

- Azul provides Zulu Enterprise customers with quarterly access to the latest Java Critical Patch Updates (CPUs) for all supported Zulu versions including Java 13, 11, 8, and 7. These quarterly CPUs are security-only updates, and are designed for rapid deployment in production. **Only Oracle and Azul make quarterly CPU updates available backed by strict SLAs.**
- All free OpenJDK builds only provide Patch Set Updates (PSU) that merge security updates with backported features and bugfixes and require extensive testing before being placed in production. **Only Oracle and Azul deliver both CPU and PSU updates on a quarterly cadence.**

### 24x7x365 SUPPORT OFFERINGS

Java is a mature language, but the complex Java runtime offers no bug-free or security guarantees. With Zulu Enterprise, you have access to a dedicated Support team that can i) triage Java runtime problems, ii) identify offending code (i.e. perform root cause analysis) and iii) issue temporary patches or security fixes without any dependency on any other company. Zulu Enterprise Platinum Support customers have access to an industry-leading 48-hour support SLA for all critical security issues. With more than 17 years delivering mission-critical support for Global 1000 accounts, Azul has the dedicated Engineering and Support staffing and deep Java domain expertise that ensure development and operations teams can run their applications smoothly.

### Virtual Environments

Included with Docker, VMware, Hyper-V, KVM

### Cloud

Amazon AWS (EC2 and S3)  
Microsoft Azure, Google Cloud, and private or hybrid Clouds

### Java Versions on x86

Java SE 13, 11, 8, and 7 for x86-64 and x86-32, for JDK 6 contact Azul Sales

### Java Versions on Arm

Java SE 8, 11 and 13 for ARMv8 64-bit

### Java Versions on SPARC

6, 7, 8, 11

## Zulu Features

- 100% open source Java
- Built from OpenJDK sources
- Free to download and use, with cost-effective support options
- Verified using OpenJDK Community TCKs
- Performance parity with Oracle HotSpot Java SE
- Full Docker and Linux container support
- Industry-leading multi-platform coverage:
  - Java 11, 8, and 7 plus future Long Term Support (LTS) releases
  - Medium Term Support for JDK 13 and 15 (18+ month bridge to future JDK 17 LTS builds)
  - Windows, Linux (including Alpine Linux), Solaris, and macOS
  - x86, SPARC, and Arm processor support
- Continuous, timely access to Java CPUs, security patches and bug fixes
- Extended product life cycles and selective access to preview and other feature builds, including JDK 14 (March 2020) and JDK 15 (September 2020)

## Zulu Enterprise: Backed by the industry's best support SLA

Azul Systems offers world-class support services for Zulu Enterprise. Our highly trained customer support engineers have extensive Java experience and deep knowledge of the JVM, memory management, Java performance issues, and usage of production application visibility tools. Three levels of enterprise technical support subscriptions are available for Zulu Enterprise:

	Standard	Premium	Platinum
<b>Quarterly releases</b>	✓	✓ <b>Plus:</b> Out-of-cycle bug fixes & early release access	✓ <b>Plus:</b> Out-of-cycle bug fixes & early release access
<b>Support hours and first response SLA</b>	Business hours, next business day	24x7x365, one hour first response	24x7x365, one hour first response
<b>Channels</b>	Limited tickets & phone/email/web support	Unlimited tickets & phone/email/web support	Unlimited tickets & phone/email/web support
<b>Quarterly security update SLA</b>	15 days	7 days	48 hours

## AZUL'S SUPPORT LIFECYCLE FOR THE FUTURE OF JAVA

In September, 2017, Oracle announced that Java SE was moving to a 6-month release cadence. New "Features" releases will appear in March and September of every year. The next feature release after Java 9 was Java 10, which was released March 20, 2018.

- Long Term Support (LTS) releases of Java will ship every every 3 years. The next LTS release after JDK 11 is Java 17 (planned for September 2021). JDK 8 will be supported by Azul until at least December 2030; JDK 11 until at least September 2027.
- Unique within the Java community, Azul also provides Medium Term Support (MTS) for select interim releases between LTS releases, enabling Java users to access select features that would be otherwise unsupported between Java 11 and Java 17. Zulu 13 is Azul's first MTS release.

## ZULU ENTERPRISE ENSURES COST-EFFECTIVE ACCESS TO JAVA SECURITY UPDATES

Backed by a team of JVM engineers that is second in size only to Oracle, Azul's Zulu Enterprise builds of OpenJDK are available for more file types, operating systems, and major releases of Java than any freely-downloadable builds of OpenJDK. Zulu Enterprise Support plans are designed to ensure that Java users have rapid access to **timely security updates**, back ported fixes, innovative features and IP protection that meet the needs of development, QA and Operations teams responsible for essential Java-based applications, infrastructure and performance.

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