

# Zulu Enterprise: Fully-Supported Builds of OpenJDK™

## Open Source Java Standard Edition for Linux, Windows, and macOS

### ZULU BENEFITS

- › **Free and open source Java**  
Zulu Enterprise is based on Zulu, Azul's freely available build of OpenJDK, a 100% open source implementation of the Java Platform, Standard Edition.
- › **10+ year Java SE lifetime**  
Major Zulu Enterprise releases are supported for at least ten years after their general availability, providing more stability and control for your business.
- › **Free to download and use without restrictions**  
Binary distributions of Zulu are available from the Azul website and Azul repositories, and readily and easily integrate into your development and production processes.
- › **Fully supported by Azul Systems**  
With cost-effective, tiered support options. Azul's globally distributed team has over 14 years of experience supporting mission-critical Java deployments.
- › **Certified non-contaminating**  
Our license verification processes and tools ensure that your Java code is never contaminated by GPL or any other licenses that could require placing extra restrictions on the use or distribution of your code, forced sharing of your code under other terms, or mandate the purchase of additional third-party software.

### INTRODUCING ZULU AND ZULU® ENTERPRISE

Zulu and Zulu Enterprise are fully certified and 100% open source Java Development Kits ("JDKs") for all Java development and production workloads. Zulu binaries are free to download and use without restriction and are based on source code from the OpenJDK project (openjdk.java.net). Zulu builds are designed to allow companies to leverage the latest advances in Java Standard Edition ("SE") for all Java-centric use cases. With extended support for multiple Java versions (e.g. 9, 8, 7 and 6), Zulu Enterprise is ideal for organizations and businesses that require regular Java updates (e.g. bug fixes and security patches), including support for older or end-of-life versions of Java, including Java 7 and Java 6. Zulu is highly flexible and supports multiple operating systems (Windows, Linux, macOS), CPU architectures (x86, ARM, PPC), bitness (32- or 64-bit), Java patch levels (8u144), and disk and memory sizes where Compact Profiles may play a part in container deployment strategies.

### ZULU ENTERPRISE IS OPEN SOURCE JAVA

Each Zulu binary is verified compliant with the Java SE specification using the OpenJDK Community Technology Compatibility Kit ("TCK") licensed from Oracle. The TCK is a suite of more than 100K unit tests which ensure that each binary build of OpenJDK meets all the specifications of the umbrella and individual Java Specification Requests for a given version of Java SE platform (e.g. Java 8). Zulu and 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.

### TIMELY MAINTENANCE UPDATES

Azul provides Zulu Enterprise customers with continuous access to the latest Java Critical Patch Updates ("CPUs") for all supported Zulu versions (e.g. Java 9, 8, 7 and 6). These CPUs contain both Java SE bug fixes as well as security patches. Depending on the severity of the vulnerability, as defined by NIST Common Vulnerability Scoring System version 3 (CVSS v3).

### CHOOSE 24 X 7 X 365 OR BUSINESS HOURS ONLY SUPPORT OFFERINGS

While Java is a mature language, the Java runtime is a complex piece of code with no guarantees that every build is completely bug free or secure. As such, Azul offers development and operations teams timely access to out-of-cycle patches to ensure their applications are always running on an up-to-date and secure Java platform. Azul Support offerings include a dedicated Support team that can i) triage Java 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.

With more than 14 years delivering mission-critical support for Global 1000 accounts, Azul has the dedicated teams and deep Java domain expertise to provide the high-quality support that development and operations teams need to ensure their Java applications keep running smoothly.



## Zulu Enterprise Features

- 100% open source Java
- Built from OpenJDK sources
- Free to download and use, with multiple support options
- Verified by OpenJDK Community TCKs
- Performance parity with Oracle Java
- Customizable packaging from JDK to JRE to Compact Profiles
- Full Docker and Linux container support
- Multiplatform support:
  - Java 9, 8, 7 and 6
  - Windows, Linux and macOS
  - x86 and Arm
- Continuous access to Java CPUs and security patches
- Extended product life cycles and access to preview builds
- Certified non-contaminating, providing IP protection for your software

### Operating Systems

RHEL 7.0 or later, 6.0 or later CentOS 7.0 or later, 6.0 or later Oracle Linux 7.0 or later, 6.0 or later SLES 12 (SP2 and SP1), SLES 11 (SP4 and SP3) Ubuntu 16.04 LTS, 14.04 LTS, and 12.04 LTS  
Debian 9.0 (Stretch), 8.0 (Jessie) and 7.0 (Wheezy)  
Amazon Linux  
Container Linux by CoreOS 4.7 or later  
Alpine Linux 3.5 or later  
Automotive Grade Linux Chinook 3.0.2 or later  
Windows Server: Nano Server, 2016, 2012 R2, 2012, and 2008 R2  
Windows Client (64-bit OS): 10, 8.1, 8 and 7  
macOS v10.13 High Sierra, v10.12 Sierra, v10.11 El Capitan, v10.10 Yosemite

### Virtual Environments

Docker, VMware, Hyper-V, KVM

### Cloud

Amazon AWS (EC2 and S3)  
Microsoft Azure (VM Gallery and Eclipse Azure SDK)

### Java Versions on X86

Java SE 9, 8, 7 and 6 for Intel x86-64 and x86-32

### Java Versions on Arm

Java SE 9 (available Dec 2017) and 8 for ARMv8 64-bit, ARMv6,7,6 32-bit, and Qualcomm Centriq 2400 Server

## Fully Supported by Azul Systems

Azul Systems offers world-class support services for Zulu. 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. Two tiers of enterprise technical support for Zulu are available:

	Standard	Premium
<b>Quarterly releases</b>	★	★ With out-of-cycle bug fixes & early release access
<b>Application Guard Pre-testing by platform</b>	N/A	Optional Annual subscriptions per unique target
<b>Support hours</b>	Business hours	24x7x365
<b>Channels</b>	Limited tickets & phone/email/web support	Unlimited tickets & phone/email/web support
<b>Dedicated Technical Account Manager</b>	N/A	Optional Partial FTE allocations available

### AZUL'S SUPPORT LIFECYCLE FOR JDK 9 AND BEYOND DATES

In September, 2017 Oracle announced that Java SE is moving to a 6-month Ubuntu-like release schedule. New "Features" releases will appear in March and September of every year. The next feature release after Java 9 will be Java 10, due in March 2018.

- **Long Term Support (LTS)** releases will happen every 3 years. Next LTS releases are Java 11 (Sept 2018) & Java 17 (Sept 2021).
- Java 9 and 10 are **feature releases** with very short support lifespans (only 6 months after initial release). In fact, Oracle's End of Public Updates for JDK 8 is aligned with the initial Java 11 GA (creating a support "knife-edge") in Sept 2018.

**Azul's Zulu Enterprise Support** is designed to remove the risks and operational issues created by Oracle's revised plans for Java SE:

- As we have done with Java 6 and 7, Azul will provide a minimum 10 years of **Long-Term Support (LTS)** for Java 8, 11, and 17.
- Azul will provide **Medium-term Support (MTS)** for Java releases 9, 15, 19, etc., ensuring that they are supported for 30-42 months of active support, plus an additional year of Extended/passive support, ensuring coverage well beyond the GA of the next LTS release.
- For upcoming Java releases 10, 12, 14, 16 (which provide early access to new language and runtime features) Azul will provide **Short Term Support (STS)** for a minimum of 18 months after GA.

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For additional details visit [www.azul.com/zulu/support](http://www.azul.com/zulu/support)