

## JCP Executive Committee - Amazon.com Services, Inc Position Statement 2025

Java is one of the most popular languages in use by Amazon and AWS customers, so we are committed to supporting Java and the OpenJDK project. Amazon has a long and deep history with Java running tens of thousands of production services, including some of the world's largest Java deployments. Amazon Corretto, a no-cost, multi platform, production-ready distribution of OpenJDK 8 and later, is available to any Java developer regardless of where their code runs. Amazon Web Services provides Amazon Corretto as a default implementation for AWS services running Java application code.

Amazon is among the largest external OpenJDK contributors. We are heavily involved in the OpenJDK Tip and LTS update projects, and are a member of the OpenJDK Vulnerability Group. We have made ACCP, the Amazon Corretto Crypto Provider, freely available, which drastically improves the performance of cryptographic operations, and have contributed Generational Shenandoah (JEP 404/521), a generational extension for the Shenandoah garbage collector which enables Shenandoah to take more load and reduce GC pauses and latency, and Lilliput (JEP 450/519), which reduces object header size to 8 bytes, which in turn reduces heap size and latency, and improves deployment density and data locality.

Since the last JCP election in 2023, the number of Amazon's OpenJDK Authors has increased to a total of 15 and the number of Committers and Reviewers to 7 each. We took ownership of, and are actively enhancing and maintaining, several essential open source tools for the Java developer community including AsyncProfiler, Java Micro Harness (JMH), Java Object Layout (JOL), and Arctic, a tool for automated desktop application testing. We actively contribute to OpenJDK projects such as Leyden, and with a massive amount of Java code running in production, we play a key role in the stabilization of new OpenJDK LTS releases.

Amazon also contributes to the GraalVM project. We are on the GraalVM Advisory Board and are co-maintainers of the GraalVM 21 LTS community repository. Amazon has contributed Shenandoah GC support in the Graal compiler, and Truffle/GraalJS performance enhancements.

During the current term, Amazon has actively participated in the JCP Java in Education and Java and AI initiatives, and hosted the October 2024 JCP EC meeting at Amazon headquarters in Seattle. For the next term, our main focus in the EC will continue to be to represent the voice of developers and users of applications as small as a few lines of Lambda functions up to the largest enterprise applications. If elected, we will take it as a mandate to widen our investments in the security, stability, modernization, performance, and observability of Java applications and the JDK for both future development and LTS versions.