



ADOPTIUM

Community Day



Welcome

- Housekeeping
- Overview of the day
 - Meet and greet
 - Project highlights
 - Focus areas for 2023
 - Working Group and Community growth
 - 11:00 am - BREAK
 - Website and marketing
 - Infrastructure
 - 12:30 pm - LUNCH
 - Temurin & Temurin-build
 - AQAvit
 - 3:00 pm - BREAK
 - Trusted software initiative
 - Reproducible builds
 - Empty slot
 - Wrap-up

Meet and Greet

Meet the Adoptium Community



- Introduce yourself
- Any specific goals for today?

Project Highlights

Five minutes summary of ...

- The Adoptium Working Group
- Adoptium Marketplace
- Temurin
- AQAvit
- Temurin Compliance
- Eclipse Mission Control
- Adoptium Incubator
- Migration Toolkit for Java



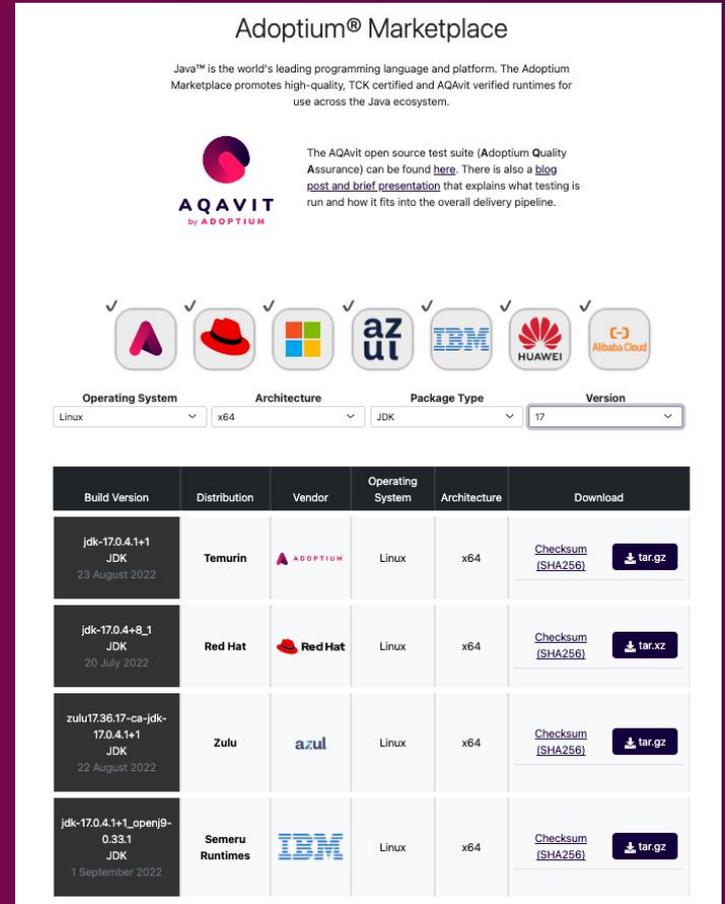
Adoptium Working Group

- Group handling tasks that support the work of the technical projects.
 - Primary source of funding for project resources.
 - Marketing and promotion of Adoptium projects.
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- Liaise with Eclipse Foundation to agree strategic plan and supporting budget.
 - Make non-technical decisions about the project (legal, procedural, etc).
 - Meet weekly and publish minutes to mailing list.

<https://adoptium.net/members/>

The Adoptium Marketplace

- Launched May 2022 to raise the quality of OpenJDK builds available.
- Open to working group members with publisher agreement on file
- Listing is self-managed by publisher
 - Compliant Java SE implementation
 - Passed AQA Vit verification suite
 - No need to be open source
- Metadata and binaries served from publisher property



Adoptium® Marketplace

Java™ is the world's leading programming language and platform. The Adoptium Marketplace promotes high-quality, TCK certified and AQA Vit verified runtimes for use across the Java ecosystem.

The AQA Vit open source test suite (Adoptium Quality Assurance) can be found [here](#). There is also a [blog post and brief presentation](#) that explains what testing is run and how it fits into the overall delivery pipeline.

AQA VIT
by ADOPTIUM

Operating System: Linux | Architecture: x64 | Package Type: JDK | Version: 17

Build Version	Distribution	Vendor	Operating System	Architecture	Download
jdk-17.0.4.1+1 JDK 23 August 2022	Temurin	ADOPTIUM	Linux	x64	Checksum (SHA256) tar.gz
jdk-17.0.4+8_1 JDK 20 July 2022	Red Hat	Red Hat	Linux	x64	Checksum (SHA256) tar.gz
zulu17.36.17-ca-jdk-17.0.4.1+1 JDK 22 August 2022	Zulu	azul	Linux	x64	Checksum (SHA256) tar.gz
jdk-17.0.4.1+1_openj9-0.33.1 JDK 1 September 2022	Semeru Runtimes	IBM	Linux	x64	Checksum (SHA256) tar.gz

Temurin

- The well-tested Java SE binary available across multiple platforms.
- Consumable, via website, API, packages, container images, installers, redistributors. Signed for safe OS use.
- Simple license: open source and \$free to use anywhere, forever.
- Built via “temurin-build”, tested by AQAvit and compliance.
- Follows OpenJDK quarterly update cycle, predictable releases in January, April, July, October; and Long Term Support every two years.



TEMURIN



AQAvit

- Adoptium’s quality verification program.
 - Comprises tests authored in the project, at OpenJDK, and other projects
- Tools and infrastructure to run tests and analyse results.
 - Test result summary service for quickly identifying trends and regressions.
- Open source licensed for all to use, extend, and adapt as required.
- “AQAvit Verified” is a well-defined status that can be applied to any build.
 - Claiming AQAvit verified requires additional obligations.

Temurin Compliance

- Non-open project set up to handle Oracle's Java SE Compliance Test Suite (JCK)
- Requires additional agreements in place for community to participate.
- Requires private infrastructure to hold and run proprietary code.
- External communication limited to indicating pass/fail of a binary.
- Contains tools to help run the JCK efficiently.

Eclipse Mission Control

- Low-overhead monitoring and management of running Java applications.
- Vanilla build of code developed in OpenJDK “JMC” project and branded as Adoptium.

Adoptium Incubator

- Location for easy collaboration on innovative features in the runtime.
 - Low threshold for setting up the project.
 - Progression to full project or abandonment
 - Not all projects are expected to progress beyond the incubator
 - PMC keeps an eye on community health.
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- Fast start-up ideas collaboration between Alibaba and Google

Migration Toolkit for Java

- Tool to help application developers move to later Java API versions.
- Recognition that many applications remain on Java 8, and need help to get to Java 11+

Focus Areas for 2023

Focus Areas for 2023

1. Vibrant Healthy Projects

2. Increase Product Usage

3. Innovation that Matters

4. Grow Membership and Involvement

- Ensure Adoptium projects thrive by providing excellent community health, technical resource, and marketing support for their success.
- Establish Adoptium as the industry's top vendor-neutral source of secure, high-quality open source Java runtimes.
- Identify technical collaboration opportunities across Eclipse projects and beyond.
- Increase the developer and working group membership to further grow our inclusive, diverse, and robust community.

Working Group and Community

Working Group and Community

- **Community opportunities**
 - Create knowledge share spaces
 - Promote community participation and activities
- **Engagement with others**
 - Student programmes
 - Eclipse project affinity
 - Key communities beyond Eclipse
- **Growing Working Group Membership**
 - Promote the advantage of being a member
 - Members referral
- **Sponsorship**

BREAK – 30 mins

Website and Marketing

Website

- Pros: anyone can edit the website directly via a Github pull request, and there is an automatic staging step to review changes
- Cons: can be difficult to locally test logic changes

Contributors



Help us make these docs great!

All Adoptium docs are open source. See something that's wrong or unclear?

 [Edit this page](#)

Website

- Do we portray a professional image with a consistent style and “voice”?
- Scope (distribution site, project information, community resource, ...)
 - Today’s website fulfils a variety of needs
 - Do we have community capacity to grow the scope and role of the website? If so where do we start?
- Release notes!
 - Often asked for feature - in development
- Predictable / static URLs to releases
 - Often used and published on fora, readmes, instructions, etc.
- Blog & news feeds

Marketing

- Project marketing to date has been *ad hoc* and mostly targeting developers.
- Need for longer term marketing plan to bring Adoptium brand to architects and executive-level decision makers.
 - Focus on Adoptium as the key brand
 - Trusted technology provider to enterprises
 - Membership growth
 - Community retention
- What is important to enterprise users? How do we reach them?

Adoptium Infrastructure

Adoptium Infrastructure

- Review of current infrastructure
 - 300+ Machines
 - Ansible playbooks for infrastructure-as-code
 - 60+ GitHub repositories
- Reflection of 2022 achievements and issues
 - Dynamic machines (Docker)
- Future requirements
 - Chaos monkey
 - Infrastructure reproducibility (reproducible builds)
- Plans in place

LUNCH – 1h 30mins

Temurin & Temurin Build

Temurin and Temurin-Build

- **Priorities**
 - Maintaining focus on shared goals
- **Development practices**
 - Release process checklist
 - Work distribution
 - Code freeze vs branching?

AQAvit

AQAvit

- Priorities
 -
- Development practices
 -
- Plans
 -

BREAK – 30 mins

Reproducible Builds

Reproducible Builds

- Why reproducible builds?
- What needs to change to get byte-for-byte equivalence everywhere
- Progress to date
- Opportunities that open up when we have reproducible builds
 - Distributed workloads and auditability

Trusted Software Initiative

Trusted Software Initiative

- **Secure software development framework (SSDF)**
 - Goals and progress so far
 - Next step to enhance our delivery of secure software
 - Auditability and incident logging
- **Supply chain levels for software artefacts (SLSA)**
 - Evaluating the current state of Temurin
 - Self-certification and documentation
- **Software bill of materials**
 - What we currently produce
 - CycloneDX update

Wrap-up

Thank you!

- Summary of the day
- Review of actions taken
- Where to follow-up