

Azul Zulu builds of OpenJDK July 2023 Update Release for macOS Release Notes

Revision 1.0

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Revision History

Revision	Date	Description
0.1	July 28, 2023	Initial version.

Release Details

This release is an update release for macOS Azul Zulu Builds of OpenJDK version 20, 17, and 11.

The following table lists detailed information on the Azul Zulu versions released with the current update.

A=l 7l	Update	JDK Version	Based on		
Version (*)	Type (**)		Azul Zulu Version	JDK Version	JavaFX Version
20.32.11 (CA) 20.32.12 (SA)	PSU	20.0.2+9	20.30	20.0.1+9	20.0.2+100
17.43.14 (SA)	CPU	17.0.7.0.101+2	17.42	17.0.7+7	20.0.1.0.101+100
17.44.15 (CA) 17.44.17 (CA) 17.44.16 (SA) 17.44.18 (SA)	PSU	17.0.8+7	17.43	17.0.7.0.101+2	20.0.2+100
11.65.14 (SA)	CPU	11.0.19.0.101+2	11.64	11.0.19+7	19.0.3.0.101+100
11.66.15 (CA) 11.66.17 (CA) 11.66.16 (SA) 11.66.18 (SA)	PSU	11.0.20+8	11.65	11.0.19.0.101+2	19.0.4+100

- (*) Azul provides two types of distribution packages for each Java version:
- SA distributions are tested, certified, and commercially supported Azul Zulu builds of OpenJDK. Azul ensures that the software that uses the Accessible APIs of the

product doesn't have to include specific licenses and that such use doesn't contaminate the code or intellectual property of such software with any license requirements.

• CA are Azul Zulu builds of OpenJDK that are free to download and use.

NOTE

Both SA and CA distributions may contain Early Access builds noted with —ea— in their filename. Early Access builds may not be TCK certified.

(**) Update type:

- CPU (Critical Patch Updates) contain fixes to security vulnerabilities and critical bug fixes. Azul Zulu CPU releases are generally based on prior-cycle PSU releases, with only security fixes applied. They provide a low-risk vehicle for the potentially urgent deployment of security fixes when issues of sufficient severity arise. CPU releases are available in SA distributions.
- PSU (Patch Set Updates) incorporates all fixes in the corresponding CPU, as well as
 additional non-security bug fixes. Azul Zulu PSU releases incorporate both security
 fixes and other changes that align the release contents with the associated OpenJDK
 project quarterly release. PSU releases are available in SA and CA distributions.

The new respun bundles have the same Azul Zulu versions but are distinguishable by 1 appended to the Azul Zulu version in the package file name.

NOTE

For example:

Initial version: zulu11.66.16-sa-jdk11.0.20-macosx_x64.dmg

Respin version: zulu11.66.16_1-sa-jdk11.0.20-

macosx_x64.dmg

What's New

Respin for macOS Regarding jlink

The builds released on July 18, 2023, contain 'jmod' files in the macOS JDK bundles,

which became unusable to create custom JRE images with <code>jlink</code>. This respin Azul Zulu Builds of OpenJDK, released on July 28, 2023 include updated and fixed <code>jmod</code> files. The new installers provided in this release will override the corresponding files. There is no need to uninstall anything before you install the new versions.

Please note: only macOS jmod functionality in JDK bundles was affected. If you don't use jlink or if you only use JRE configurations, there is no need to update.

Known Issues

There are no new known issues to report in this release.

Bug Fix Specific to Azul Zulu Builds of OpenJDK

The following table describes the Azul Zulu bug fixes implemented in this release.

OpenJDK Patch ID	Azul Zulu Version	Synopsis	CPU/PSU
ZULU-50862	11, 17, 20	macOS jmods contain extra entries	CPU,PSU