



OpenJDK 8

Release notes for OpenJDK 8.0.282

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Abstract

This document provides an overview of new features in OpenJDK 8, as well as a list of potential known issues and possible workarounds.

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PREFACE

OpenJDK (Open Java Development Kit) is a free and open source implementation of the Java Platform, Standard Edition (Java SE). The Red Hat build of OpenJDK is available in two versions, OpenJDK 8u and OpenJDK 11u.

Packages for the Red Hat build of OpenJDK are made available on Red Hat Enterprise Linux and Microsoft Windows and shipped as a JDK and JRE in the Red Hat Container Catalog.

MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

CHAPTER 1. SUPPORT POLICY

Red Hat will support select major versions of OpenJDK in its products. For consistency, these versions will be the same ones that Oracle designates 'LTS' for the Oracle JDK.

A major version of OpenJDK will be supported for a minimum of six years from the time it is first introduced.

OpenJDK 8 is supported on Microsoft Windows and Red Hat Enterprise Linux until May 2026.



NOTE

RHEL 6 has reached the end of life in November 2020. Due to this, OpenJDK is not supporting RHEL 6 as a supporting configuration.

For more information, see the [OpenJDK Life Cycle and Support Policy](#) .

CHAPTER 2. DIFFERENCES FROM UPSTREAM OPENJDK 8

OpenJDK in Red Hat Enterprise Linux contains a number of structural changes to the upstream distribution of OpenJDK. The Windows version of OpenJDK tries to follow Red Hat Enterprise Linux as closely as possible.

The most notable changes are the following:

- On Red Hat Enterprise Linux, external native libraries are used for archive format support (**zlib**) and image formats (**libjpeg-turbo**, **libpng**, and **giflib**). Red Hat Enterprise Linux 8 uses additional font rendering (**harfbuzz**) external library. On Microsoft Windows, these libraries are built from the sources of the corresponding Red Hat Enterprise Linux RPMs.
- On Red Hat Enterprise Linux, system-wide timezone data files are used as a source for timezone information. On Microsoft Windows, the latest available timezone data from Red Hat Enterprise Linux is included.
- On Red Hat Enterprise Linux, system-wide CA certificates are used. On Microsoft Windows, the latest available CA certificate from Red Hat Enterprise Linux is used.
- The Windows distribution includes the DejaVu set of TrueType Fonts imported from Red Hat Enterprise Linux.
- The **src.zip** file includes the source for all of the JAR libraries shipped with OpenJDK.

CHAPTER 3. OPENJDK FEATURES

3.1. NEW FEATURES AND ENHANCEMENTS

This section describes the new features introduced in this release. It also contains information about changes in the existing features.



NOTE

For all the other changes and security fixes, see <https://mail.openjdk.java.net/pipermail/jdk8u-dev/2021-January/013337.html>.

3.1.1. Updated XML signature implementation to Apache Santuario 2.1.3

The XML signature implementation in the **java.xml.crypto** module has been updated to version 2.1.3 of Apache Santuario. New features include:

- Added support for embedding elliptic curve public keys in the **KeyValue** element

For more information, see [JDK-8230839](#).