
Amazon Corretto

Corretto 8 User Guide



Amazon Corretto: Corretto 8 User Guide

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What Is Amazon Corretto 8?

Amazon Corretto is a no-cost, multiplatform, production-ready distribution of the Open Java Development Kit (OpenJDK). Corretto comes with long-term support that includes performance enhancements and security fixes. Corretto is certified as compatible with the Java SE standard and is used internally at Amazon for many production services. With Corretto, you can develop and run Java applications on operating systems such as Amazon Linux 2, Windows, and macOS.

This guide includes a list of patches applied to the OpenJDK for this release of Amazon Corretto 8, and installation instructions for the platforms supported by this version.

Related Information

In addition to this guide, see the following resources for developers:

- [Amazon Corretto 8 Overview](#)
- GitHub:
 - [Documentation source](#)
 - [JDK Source](#)

Contributing to the SDK

Developers can contribute feedback in the following ways:

- Submit issues on GitHub:
 - [Submit documentation issues](#)
 - [Report a bug or request a feature](#)
- Submit pull requests in the documentation or JDK source GitHub repositories to contribute to the SDK development

List of Patches for Amazon Corretto 8

This section lists all the patches applied to OpenJDK for Amazon Corretto 8. We also provide links to the issues in the OpenJDK project.

[C8-1] Prevent premature `OutOfMemoryException` when G1 GC invocation is suspended by a long-running native call.

Programs that use the G1 GC could experience spurious out-of-memory (OOM) exceptions even when the Java heap was far from filled up. This happened when a spin loop that waited for long-running native calls gave up after only two rounds. This small patch makes this loop wait as long as it takes. Typically a few more rounds suffice. Worst case, a full GC would eventually occur (thanks to [JDK-8137099](#)) and also resolve the issue. The patch includes a unit test that provokes needing more than two rounds, and succeeds only if the patch is in place. See [JDK-8137099](#) for discussion.

[C8-2] Back port from OpenJDK 10, fixing [JDK-8177809](#): “`File.lastModified()` is losing milliseconds (always ends in 000)”.

The patch removes inconsistencies in how the last-modified timestamp of a file is reported. It standardizes the behavior across build platforms and Java methods so that the user receives second-level precision. See [JDK-8177809](#).

[C8-3] Back port from OpenJDK9, fixing [JDK-8150013](#), “ParNew: Prune `nmethods` scavengable list”.

This patch reduces pause latencies for the Parallel and the CMS garbage collector. GC “root scanning” speeds up by up to three orders of magnitude by reducing redundant code inspections.

[C8-4] Back port from OpenJDK 9, fixing [JDK-8047338](#): “`javac` is not correctly filtering non-members methods to obtain the function descriptor”.

This patch fixes a compiler bug that caused compile-time errors when a functional interface threw an exception that extend `Exception`.

[C8-5] Back port from OpenJDK 10, fixing [JDK-8144185](#): “`javac` produces incorrect `RuntimeInvisibleTypeAnnotations` length attribute”.

This problem made Findbugs, JaCoCo, and Checker Framework fail on some well-formed input programs.

[C8-6] Trigger string table cleanup in G1 based on string table growth.

This patch triggers “mixed” G1 collections needed to clean out the string table entries based on string table growth, not just Java heap use. The latter is an independent measurement and may trigger too rarely or even never, in some applications. Then the string table may grow without bounds, which is effectively a native memory leak. See [JDK-8213198](#).

[C8-7] Backport from OpenJDK 9, fixing [JDK-8149442](#): “`MonitorInUseLists` should be on by default, deflate idle monitors taking too long”.

This patch makes removing a performance bottleneck for highly thread-intensive applications the default setting. Enabling `MonitorInUseLists` allows more efficient deflation of only potentially in-use monitors, instead of the entire population of monitors.

[C8-8] Back port from OpenJDK 11, fixing [JDK-8198794](#): “Hotspot crash on Cassandra 3.11.1 startup with `libnuma 2.0.3`”.

This patch prevents Cassandra 3.11.1 from crashing at startup.

[C8-9] Back port from OpenJDK 11, fixing [JDK-8195115](#): “G1 Old Gen MemoryPool CollectionUsage.used values don’t reflect mixed GC results”.

Without this patch, it’s impossible to determine how full the heap is by means of JMX when using the G1 GC.

[C8-10] Speed up Class.getSimpleName() and Class.getCanonicalName().

Memorization greatly speeds up these functions. This patch includes correctness unit tests. See [JDK-8187123](#).

[C8-11] Back port of [JDK-8068736](#) from OpenJDK9, fixing “Avoid synchronization on Executable/Field.declaredAnnotations”.

Improves the performance of Executable/Field.declaredAnnotations() by result caching that avoids thread synchronization.

[C8-12] Back port from OpenJDK 9, fixing [JDK-8077605](#): “Initializing static fields causes unbounded recursion in javac”.**[C8-13] Fixed [JDK-8130493](#): “javac silently ignores malformed classes in the annotation processor”.**

javac silently swallowed malformed class files in an annotation processor and returned with exit code 0. With this patch, javac reports an error message and returns with a non-zero exit code.

[C8-14] Improved error message for the jmap tool.

Updated error messages to suggest additional approaches when the target process is unresponsive. See [JDK-8213443](#).

[C8-15] Fixed [JDK-8185005](#): “Improve performance of ThreadMXBean.getThreadInfo(long ids[], int maxDepth)”.

This patch improves the performance of a JVM-internal function that looks up a Java Thread instance from an OS thread ID. This benefits several ThreadMXBean calls such as getThreadInfo(), getThreadCpuTime(), and getThreadUserTime(). The relative performance improvement increases with the number of threads in the JVM, as linear search is replaced by a hash table lookup.

[C8-16] Back port from OpenJDK 12, fixing [JDK-8206075](#): “On x86, assert on unbound assembler Labels used as branch targets”.

Label class instances (used to define pseudo-assembly code) can be used incorrectly in both the C1 and Interpreter. The most common mistake for a label is being “branched to” but never defined as a location in code via bind(). An assert was added to catch these and thus triggered 106 jtreg/hotspot and 17 jtreg/jdk test failures. We then determined that the label backedge_counter_overflow was not bound when UseLoopCounter was True, but UseOnStackReplacement was False. This is now fixed and guarded by the above tests.

[C8-17] Improve portability of JVM source code when using gcc7.

This patch places up-to-date type declarations in all places where the gcc switch “-Wno-deprecated-declarations” would flag problems. It also enables the switch to catch future related issues. This makes the source code compile on all present Amazon Linux versions. This is a combination of much of [JDK-8152856](#), [JDK-8184309](#), [JDK-8185826](#), [JDK-8185900](#), [JDK-8187676](#), [JDK-8196909](#), [JDK-8196985](#), [JDK-8199685](#), [JDK-8200052](#), [JDK-8200110](#), [JDK-8209786](#), [JDK-8210836](#), [JDK-8211146](#), [JDK-8211370](#), [JDK-8211929](#), [JDK-8213414](#), and [JDK-8213575](#).

[C8-18] Back port from JDK 10, fixing [JDK-8195848](#): “JTREG test for StartManagementAgent fails”.

See <http://serviceability-dev.openjdk.java.narkive.com/cDFwZce9> for more details.

[C8-19] Re-enables a legacy/disabled cipher suite to pass two TCK tests that would otherwise fail.**Three backports from OpenJDK9 to support using preinstalled libraries.**

Backported items: [JDK-8043805](#) for libjpeg, [JDK-8035341](#) for libpng, and [JDK-8042159](#) for lcms2.

Integration of aarch64 support from IcedTea 3.8.

Updates to vendor-related metadata.

Identifies Amazon as the vendor of this OpenJDK distribution and adds hyperlinks for reporting issues.

Back port from OpenJDK 9, fixing [JDK-8048782](#): “OpenJDK: PiscesCache : xmax/ymax rounding up can cause RasterFormatException”.

The bug is related to sun.java2d.pisces.PiscesCache constructor that accepts '(int minx,int miny,int maxx,int maxy)' arguments: the internal 'bboxX1' and 'bboxY1' are set to values one greater than given maximum X and Y values.

Amazon Corretto 8 Guide for Linux

The topics in this section describe installation instructions for Amazon Corretto 8 on Linux platforms.

Topics

- [Amazon Corretto 8 Installation Instructions for Amazon Linux 2 \(p. 5\)](#)
- [Amazon Corretto 8 Installation Instructions for Debian-Based, RPM-Based and Alpine Linux Distributions \(p. 7\)](#)

Amazon Corretto 8 Installation Instructions for Amazon Linux 2

This topic describes how to install and uninstall Amazon Corretto 8 on a host or container running the Amazon Linux 2 operating system.

Option 1: Use the yum Package Manager on Amazon Linux

1. Enable the yum repository in Amazon Linux 2.

Example

```
sudo amazon-linux-extras enable corretto8
```

2. You can install Amazon Corretto 8 as either the runtime environment (JRE) or the full development environment (JDK). The development environment includes the runtime environment.

Install Amazon Corretto 8 as JRE.

Example

```
sudo yum install java-1.8.0-amazon-corretto
```

Install Amazon Corretto 8 as JDK.

Example

```
sudo yum install java-1.8.0-amazon-corretto-devel
```

The installation location is `/usr/lib/jvm/java-1.8.0-amazon-corretto.<cpu_arch>`.

Option 2: Download and Install RPMs Manually

1. Download RPMs from the [Downloads \(p. 17\)](#) page for your CPU architecture. To install the JDK, you will need to download the RPMs for both the JDK and the JRE.

2. Install using yum localinstall.

Example

```
sudo yum localinstall java-1.8.0-amazon-corretto*.rpm
```

Verify Your Installation

In the terminal, run the following command to verify the installation.

Example

```
java -version
```

Expected output for 8u232:

```
openjdk version "1.8.0_232"  
OpenJDK Runtime Environment Corretto-8.232.09.1 (build 1.8.0_232-b09)  
OpenJDK 64-Bit Server VM Corretto-8.232.09.1 (build 25.232-b09, mixed mode)
```

If you see a version string that doesn't mention Corretto, run the following command to change the default java or javac providers.

Example

```
sudo alternatives --config java
```

If using the JDK you should also run:

```
sudo alternatives --config javac
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 with the following commands.

Uninstall JRE:

Example

```
sudo yum remove java-1.8.0-amazon-corretto
```

Uninstall JDK:

Example

```
sudo yum remove java-1.8.0-amazon-corretto-devel
```

Amazon Corretto 8 Installation Instructions for Debian-Based, RPM-Based and Alpine Linux Distributions

This topic describes how to install Amazon Corretto 8 on Debian-based, RPM-based and Alpine Linux distributions.

If you need to install Amazon Corretto 8 on Amazon Linux 2, see [Installing on Amazon Linux 2 \(p. 5\)](#).

Install Amazon Corretto 8 on Debian-Based Linux

This section describes how to install and uninstall Amazon Corretto 8 on a host or container running a Debian-based operating system.

Using apt

To use the Corretto Apt repositories on Debian-based systems, such as Ubuntu, import the Corretto public key and then add the repository to the system list by using the following commands:

Example

```
wget -O- https://apt.corretto.aws/corretto.key | sudo apt-key add -  
sudo add-apt-repository 'deb https://apt.corretto.aws stable main'
```

After the repository is added, you can install Corretto 8 by running this command:

Example

```
sudo apt-get update; sudo apt-get install -y java-1.8.0-amazon-corretto-jdk
```

Download and Install the Debian Package Manually

1. Download the Linux .deb file from the [Downloads \(p. 17\)](#) page. Before you install the JDK, install the `java-common` package.

Example

```
sudo apt-get update && sudo apt-get install java-common
```

2. Install the .deb file by using `dpkg --install`. e.g. install `x86_64 deb` using the following command:

Example

```
sudo dpkg --install java-1.8.0-amazon-corretto-jdk_8.252.09-1_amd64.deb
```

Verify Your Installation

In the terminal, run the following command to verify the installation.

Example

```
java -version
```

For example, expected output for Corretto-8.252.09.1:

```
openjdk version "1.8.0_252"  
OpenJDK Runtime Environment Corretto-8.252.09.1 (build 1.8.0_252-b09)  
OpenJDK 64-Bit Server VM Corretto-8.252.09.1 (build 25.252-b09, mixed mode)
```

If you see a version string that doesn't mention Corretto, run the following command to change the default java or javac providers.

Example

```
sudo update-alternatives --config java
```

If you're using the JDK, you should also run the following.

```
sudo update-alternatives --config javac
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 by using the following command.

Uninstall JDK:

Example

```
sudo dpkg --remove java-1.8.0-amazon-corretto-jdk
```

Install Amazon Corretto 8 on RPM-Based Linux

Using yum

To use Corretto RPM repositories with the yum package manager (such as Amazon Linux AMI), import the Corretto public key and then add the repository to the system list. For most systems, you must run the following commands:

Example

```
sudo rpm --import https://yum.corretto.aws/corretto.key  
sudo curl -L -o /etc/yum.repos.d/corretto.repo https://yum.corretto.aws/corretto.repo
```

After the repository is added, you can install Corretto 8 by running this command:

Example

```
sudo yum install -y java-1.8.0-amazon-corretto-devel
```

Using zypper

To use Corretto RPM repositories with the zypper package manager (such as openSUSE), import the Corretto public key and then add the repository to the system list by running the following commands:

Example

```
sudo zypper addrepo https://yum.corretto.aws/corretto.repo; sudo zypper refresh
```

After the repository is added, you can install Corretto 8 by running this command:

Example

```
sudo zypper install java-1.8.0-amazon-corretto-devel
```

Download and install RPM package manually

1. Download the Linux .rpm file from the [Downloads \(p. 17\)](#) page.
2. Install the downloaded .rpm file using yum localinstall. e.g. install x86_64 rpm using the following command:

Example

```
sudo yum localinstall java-1.8.0-amazon-corretto-devel-1.8.0_252.b09-1.x86_64.rpm
```

Verify Your Installation

In the terminal, run the following command to verify the installation.

Example

```
java -version
```

For example, expected output for Corretto-8.252.09.1:

```
openjdk version "1.8.0_252"  
OpenJDK Runtime Environment Corretto-8.252.09.1 (build 1.8.0_252-b09)  
OpenJDK 64-Bit Server VM Corretto-8.252.09.1 (build 25.252-b09, mixed mode)
```

If you see a version string that doesn't mention Corretto, run the following command to change the default java or javac providers.

Example

```
sudo alternatives --config java
```

If you're using the JDK, you should also run the following.

```
sudo alternatives --config javac
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 by using the following

Uninstall JDK:

Example

```
sudo yum remove java-1.8.0-amazon-corretto-devel
```

Install Amazon Corretto 8 on Alpine Linux

Using Alpine Package Manager

To use Corretto Alpine repositories with the Alpine package manager import the Corretto public key and then add the repository to the system list. For most systems, you must run the following commands:

Example

```
wget -O /etc/apk/keys/amazoncorretto.rsa.pub https://apk.corretto.aws/  
amazoncorretto.rsa.pub  
echo "https://apk.corretto.aws/" >> /etc/apk/repositories  
apk update
```

After the repository is added, you can install Corretto 8 by running this command:

Example

```
apk add amazon-corretto-8
```

You can install Corretto 8 JRE by running

Example

```
apk add amazon-corretto-8-jre
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 by using the following

Uninstall JDK:

Example

```
apk del amazon-corretto-8
```

Amazon Corretto 8 Guide on Windows

The topics in this section describe installation instructions for Amazon Corretto 8 on the Windows operating system. Windows builds are supported on Windows 7 and 10, and on Windows Server 2008, 2012, and 2016.

Topics

- [Amazon Corretto 8 Installation Instructions for Windows 7 or Later \(p. 11\)](#)

Amazon Corretto 8 Installation Instructions for Windows 7 or Later

This topic describes how to install and uninstall Amazon Corretto 8 on a host or container running the Windows 7 or later operating system.

Install Amazon Corretto 8

1. Download a Windows `.msi` file from the [Downloads \(p. 17\)](#) page.
2. Double-click the `.msi` file to start the installation wizard.
3. Follow the steps in the wizard.

You have the option of setting a custom installation path. By default, Amazon Corretto 8 is installed at `C:\Program Files\Amazon Corretto\`. If you set a custom path, make a note of it for the next step.

4. Once the install wizard is finished, set the `JAVA_HOME` and `PATH` environment variables.

Set `JAVA_HOME` to the installation location, noting that the directory contains the currently installed version. For example, if the default directory is used for 8u252, then set `JAVA_HOME` as `C:\Program Files\Amazon Corretto\jdk1.8.0_252`.

Add `%JAVA_HOME%\bin` to the current `PATH` variable.

5. Verify the installation by running `java -version` in a command prompt. You should see the following output.

Example

```
openjdk version "1.8.0_252"  
OpenJDK Runtime Environment Corretto-8.252.09.1 (build 1.8.0_252-b09)  
OpenJDK 64-Bit Server VM Corretto-8.252.09.1 (build 25.252-b09, mixed mode)
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 by following the standard steps to uninstall an application from Windows.

1. Open **Programs and Features**.
2. Search for **Amazon Corretto 8** and then select it.
3. Choose **uninstall**.

Amazon Corretto 8 Guide for macOS

The topics in this section describe installation instructions for Amazon Corretto 8 on macOS.

Topics

- [Amazon Corretto 8 Installation Instructions for macOS 10.10 or later \(p. 13\)](#)

Amazon Corretto 8 Installation Instructions for macOS 10.10 or later

This topic describes how to install and uninstall Amazon Corretto 8 on a host running macOS version 10.10 or later. You must have administrator privileges to install and uninstall Amazon Corretto 8.

Install Amazon Corretto 8

1. Download the Mac .pkg file from the [Downloads \(p. 17\)](#) page.
2. Double click the downloaded file to start the installation wizard. Follow the steps in the wizard.
3. Once the wizard completes, Amazon Corretto 8 will be installed in `/Library/Java/JavaVirtualMachines/`.

You can run the following command in a terminal to get the complete installation path.

Example

```
/usr/libexec/java_home --verbose
```

4. Optionally, run the following commands in the terminal to set the `JAVA_HOME` variable.

Example

```
export JAVA_HOME=/Library/Java/JavaVirtualMachines/amazon-corretto-8.jdk/Contents/Home
```

Uninstall Amazon Corretto 8

You can uninstall Amazon Corretto 8 by running the following commands in a terminal.

Example

```
cd /Library/Java/JavaVirtualMachines/  
sudo rm -rf amazon-corretto-8.jdk
```

Amazon Corretto 8 Guide for Docker

This section describes simple use cases for using Amazon Corretto 8 in Docker containers.

Topics

- [Getting Started with Amazon Corretto 8 on Docker Images \(p. 14\)](#)

Getting Started with Amazon Corretto 8 on Docker Images

This topic describes how to build and launch a Docker image that uses Amazon Corretto 8. You must have the latest version of Docker installed.

Using the official image for Amazon Corretto 8.

Amazon Corretto 8 is available as an [official image on Docker Hub](#). The following example runs a container and displays Corretto's version.

Example

```
docker run amazoncorretto:8 java -version
```

Output:

Example

```
openjdk version "1.8.0_252"  
OpenJDK Runtime Environment Corretto-8.252.09.1 (build 1.8.0_252-b09)  
OpenJDK 64-Bit Server VM Corretto-8.252.09.1 (build 25.252-b09, mixed mode)
```

Using the Corretto ECR Instance

To use the Corretto ECR instance, first authenticate the docker client to the Corretto registry (registry id : 489478819445) with the help of the instructions in this [page](#). Once you have logged in, Corretto 8 images can be pulled or run using one of the following commands:

Example

```
docker pull 489478819445.dkr.ecr.us-west-2.amazonaws.com/amazoncorretto:8  
docker run -it 489478819445.dkr.ecr.us-west-2.amazonaws.com/amazoncorretto:8 /bin/bash
```

You can see the list of available images using:

Example

```
aws ecr list-images --region us-west-2 --registry-id 489478819445 --repository-name  
amazoncorretto
```

Amazon Corretto on Alpine

Amazon Corretto on Alpine Linux images are available in ECR and [Dockerhub](#)

Using ECR

Example

```
docker pull 489478819445.dkr.ecr.us-west-2.amazonaws.com/amazoncorretto:11-alpine-jdk
docker run -it 489478819445.dkr.ecr.us-west-2.amazonaws.com/amazoncorretto:11-alpine-jdk /bin/sh
```

Using dockerhub

Example

```
docker pull amazoncorretto/amazoncorretto:11-alpine-jdk
docker run -it amazoncorretto/amazoncorretto:11-alpine-jdk /bin/sh
```

Build a Docker Image with Amazon Corretto 8

Run the following command to build an image that uses Amazon Corretto 8.

Example

```
docker build -t amazon-corretto-8 github.com/corretto/corretto-docker#master:8/jdk/al2
```

After the command completes, you have an image called *amazon-corretto-8*.

To launch this image locally, run the following command.

Example

```
docker run -it amazon-corretto-8
```

You can also push this image to Amazon ECR. See the [Pushing an Image](#) topic in the *Amazon Elastic Container Registry User Guide* for details.

Create an Image

You can create a new Docker image using [Corretto's official Docker Hub image](#).

1. Create a Docker file with this content.

Example

```
FROM amazoncorretto:8
RUN echo $' \
public class Hello { \
public static void main(String[] args) { \
System.out.println("Welcome to Amazon Corretto!"); \
} \
```

```
}' > Hello.java  
RUN javac Hello.java  
CMD ["java", "Hello"]
```

2. Build the new image.

Example

```
docker build -t hello-app .
```

3. Run the new image.

Example

```
docker run hello-app
```

You get the following output.

```
Welcome to Amazon Corretto!
```

Downloads for Amazon Corretto 8

This topic lists all the downloads available for Amazon Corretto 8. You can choose Permanent URLs pointing to the latest version, or use Version Specific URLs which point to a specific version.

Amazon Corretto 8 Permanent URLs

Permanent URLs always point to the most recent release of a package. For example, to retrieve the latest Linux Corretto 8 .tgz package by using a Permanent URL, you can run the following command from the CLI:

Example

```
wget https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-linux-jdk.tar.gz
```

These links can be used in scripts to pull the latest version of Amazon Corretto 8.

Platform	Type	Download Link	Checksum (MD5)	Sig File	Pub
Linux x64 (p. 7)	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.deb	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-linux-jdk.deb		
		https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-linux-jdk.rpm		
		https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.tar.gz	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-linux-jdk.tar.gz	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.tar.gz.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-linux-jdk.tar.gz.pub
Linux aarch64 (p. 7)	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-		

Amazon Corretto Corretto 8 User Guide
 Amazon Corretto 8 Permanent URLs

Platform	Type	Download Link	Checksum (MD5)	Sig File	Pub
		aarch64-linux-jdk.deb	aarch64-linux-jdk.deb		
		https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-linux-jdk.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-aarch64-linux-jdk.rpm		
		https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-linux-jdk.tar.gz	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-aarch64-linux-jdk.tar.gz	https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-linux-jdk.tar.gz.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-linux-jdk.tar.gz.pub
Windows x64	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.msi	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-windows-jdk.msi		
		https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.zip	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-windows-jdk.zip	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.zip.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jdk.zip.pub
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jre.zip	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-windows-jre.zip	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jre.zip.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-windows-jre.zip.pub

Amazon Corretto Corretto 8 User Guide
 Amazon Corretto 8 Permanent URLs

Platform	Type	Download Link	Checksum (MD5)	Sig File	Pub
Windows x86	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.msi	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x86-windows-jdk.msi		
		https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.zip	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x86-windows-jdk.zip	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.zip.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jdk.zip.pub
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jre.zip	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x86-windows-jre.zip	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jre.zip.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x86-windows-jre.zip.pub
	macOS x64	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-macos-jdk.pkg	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-macos-jdk.pkg	
		https://corretto.aws/downloads/latest/amazon-corretto-8-x64-macos-jdk.tar.gz	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-macos-jdk.tar.gz	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-macos-jdk.tar.gz.sig	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-macos-jdk.tar.gz.pub
Amazon Linux 2 x64	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-al2-jdk.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-al2-jdk.rpm		

Platform	Type	Download Link	Checksum (MD5)	Sig File	Pub
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-al2-jre.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-al2-jre.rpm		
Amazon Linux 2 aarch64	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-al2-jdk.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-aarch64-al2-jdk.rpm		
	JRE	https://corretto.aws/downloads/latest/amazon-corretto-8-aarch64-al2-jre.rpm	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-aarch64-al2-jre.rpm		
Alpine Linux x64 (p. 7)	JDK	https://corretto.aws/downloads/latest/amazon-corretto-8-x64-alpine-jdk.tar.gz	https://corretto.aws/downloads/latest_checksum/amazon-corretto-8-x64-alpine-jdk.tar.gz		

Note: Notice that the above links follow this format:

Example

```
https://corretto.aws/[latest/latest_checksum]/amazon-corretto-[corretto_version]-[cpu_arch]-[os]-[package_type].[file_extension]
```

Signature Verification

The public key to verify the SIGNATURE file can be downloaded [here](#).

Versioned Downloads

For versioned downloads and earlier versions, see [Corretto-8 Releases](#) on GitHub.

Change Logs

For change logs, see [Corretto-8 Change logs](#) on GitHub.

Document History for User Guide

The following table describes the documentation for this release of Amazon Corretto 8.

update-history-change	update-history-description	update-history-date
Quarterly Corretto update 8.252.09.1. (p. 22)	April 2020 update of security fixes for Corretto 8.	April 16, 2020
Quarterly Corretto update 8.242.07.1. (p. 22)	January 2019 update of security fixes for Corretto 8.	January 14, 2020
Added YUM and APT repositories topic (p. 22)	Added information about using YUM and APT repositories .	December 18, 2019
Corretto version 8.232.09.2. (p. 22)	corretto-8 bug fix release for MacOS.	November 20, 2019
Quarterly Corretto update 8.232.09.1. (p. 22)	October 2019 update of security fixes for Corretto 8.	October 15, 2019
Corretto version 8.222.10.2. (p. 22)	corretto-8 release candidate for Amazon Linux 2	September 4, 2019
Corretto version 8.222.10.4. (p. 22)	corretto-8 release candidate for aarch64	July 26, 2019
Quarterly Corretto update 8.222.10.1. (p. 22)	July 2019 update of security fixes for Corretto 8.	July 16, 2019
Corretto version 8.222.10.3. (p. 22)	corretto-8 release for Windows.	July 16, 2019
Corretto version 8.222.10.2. (p. 22)	corretto-8 preview 2 for aarch64.	July 16, 2019
Corretto version 8.212.04.3. (p. 22)	corretto-8 preview for aarch64.	June 14, 2019
Corretto version 8.212.04.2. (p. 22)	8.212.04.2 released for Amazon Linux 2.	May 2, 2019
Corretto version 8.212.04.2. (p. 22)	Improves handling of TrueType fonts (JDK-8219066).	April 21, 2019
Quarterly Corretto update 8.212.04.1. (p. 22)	April 2019 update of security fixes for Corretto 8.	April 16, 2019
Amazon Corretto 8 is now in GA. (p. 22)	No changes have been made from the RC.	January 31, 2019
8u202: Add links for 8.202.08.2 RC and Amazon Linux 2 8.202.08.1. (p. 22)	Updates artifacts and instructions to point to current RC.	January 25, 2019
8u202 PSU releases: Corretto version 8.202.08.1 (p. 22)	Updates Amazon Corretto 8 to 8u202.	January 23, 2019

New Platform Release (1.8.0_192) (p. 22)	Bug fix release of Amazon Corretto 8 Developer Preview.	January 14, 2019
Bug fix Release (1.8.0_192) (p. 22)	Bug fix release of Amazon Corretto 8 Developer Preview.	December 17, 2018
Initial Release (1.8.0_192) (p. 22)	Initial release of Amazon Corretto 8 Developer Preview.	November 14, 2018