

JAVA Versionen (aktuell/updates/verfügbar)

Oracle Java SE Subscription FAQ

<https://www.oracle.com/technetwork/java/javaseproducts/overview/javasesubscriptionfaq-4891443.html>

```
# java -version
java version "1.8.0_111"
Java(TM) SE Runtime Environment (build 1.8.0_111-b14)
Java HotSpot(TM) 64-Bit Server VM (build 25.111-b14, mixed mode)
#
```

Abb. Versionsanzeige PC

```
assoc .jar=jarfile
```

```
assoc jarfile=Executable Jar File
```

```
ftype jarfile="C:\Program Files\Java\<VERSION>\bin\javaw.exe" -jar "%1" %*
```

```
ftype jarfile="C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe" -jar "%1" %*
```

```
# assoc .jar
.jar=jarfile
```

```
# ftype jarfile
jarfile="C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe" -jar "%1" %*
```

Alternativ: Testapplikation "JarFix"

<https://johann.loefflmann.net/de/software/jarfix/index.html>

MAC-Terminal: java -version bzw.

/Library/Internet\ Plug-Ins/JavaAppletPlugin.plugin/Contents/Home/bin/java -version

Linux:

CentOS: alternatives --config java

update-alternatives --config java

Ubuntu: update-alternatives --config java

```
# alternatives --config java

Es gibt 3 Programme, welche 'java' zur Verfügung stellen.

Auswahl      Befehl
-----
*+ 1          /usr/lib/jvm/jre-1.7.0-openjdk.x86_64/bin/java
  2           /usr/lib/jvm/jre-1.5.0-gcj/bin/java
  3           /usr/lib/jvm/jre-1.6.0-openjdk.x86_64/bin/java

Eingabe um die vorgegebene Auswahl[+] zu behalten oder geben Sie die Nummer an: |
```

Abb. CentOS

Abfrage per rpm:

```
# rpm -qa java*
java-1.5.0-gcj-1.5.0.0-29.1.el6.x86_64
java-1.6.0-openjdk-1.6.0.41-1.13.13.1.el6_8.x86_64
java-1.7.0-openjdk-1.7.0.201-2.6.16.0.el6_10.x86_64
java_cup-0.10k-5.el6.x86_64
#
```

rpm -qa java*

ls -l /usr/lib/jvm

```
jre -> /etc/alternatives/jre
jre-1.5.0 -> /etc/alternatives/jre_1.5.0
jre-1.5.0-gcj -> java-1.5.0-gcj-1.5.0.0/jre
jre-1.6.0 -> /etc/alternatives/jre_1.6.0
jre-1.6.0-openjdk.x86_64 -> java-1.6.0-openjdk-1.6.0.41.x86_64/jre
jre-1.7.0 -> /etc/alternatives/jre_1.7.0
jre-1.7.0-openjdk.x86_64 -> java-1.7.0-openjdk-1.7.0.201.x86_64/jre
jre-gcj -> /etc/alternatives/jre_gcj
jre-openjdk -> /etc/alternatives/jre_openjdk
```

Alternative JAVA-Versionen

Amazon Corretto

Introducing Amazon Corretto, a No-Cost Distribution of **OpenJDK with Long-Term Support** (Windows, Mac OS, Linux)

"Amazon will provide security updates for **Corretto 8 until at least June 2023**. Updates are planned to be released quarterly. Corretto 11, corresponding to OpenJDK 11, will be available during the first half of 2019. Amazon will support Corretto **11 with quarterly updates until at least August 2024**."

<https://aws.amazon.com/de/corretto/faqs/>

<https://aws.amazon.com/de/corretto/>

<https://aws.amazon.com/de/blogs/opensource/amazon-corretto-no-cost-distribution-openjdk-long-term-support/>

<https://docs.aws.amazon.com/corretto/> (Documentation)

https://docs.aws.amazon.com/corretto/#lang/en_us

Download: <https://docs.aws.amazon.com/corretto/latest/corretto-8-ug/downloads-list.html>

Installation: https://docs.aws.amazon.com/de_de/corretto/latest/corretto-8-ug/windows-7-install.html

IBM OpenJ9

"Want an OpenJDK™ build that contains an enterprise grade, open source, Java virtual machine? Grab a pre-built binary for Linux, Windows or macOS and try it for yourself..."

<https://www.eclipse.org/openj9/>

https://www.eclipse.org/openj9/oj9_faq.html

AdoptOpenJDK

AdoptOpenJDK provides prebuilt OpenJDK binaries

<https://adoptopenjdk.net/>

Download für Windows x64

1. Choose a Version

OpenJDK 8 (LTS)

OpenJDK 11 (LTS)

2. Choose a JVM

HotSpot

OpenJ9

Zulu tested, certified builds of OpenJDK

"Zulu® certified builds of OpenJDK are fully compliant with the Java SE standard. Zulu is 100% open source and freely downloadable."

<https://www.azul.com/downloads/zulu/>

Zulu builds of OpenJDK are available for Linux (including Alpine Linux with musl libc), Windows, macOS, Solaris, and Docker. Builds are also available **with OpenJFX** (ZuluFX - All ZuluFX community builds are free to download and use without restrictions.).

Zulu Linux bundles are also available for the 64-bit ARMv8 Graviton processor.

<https://www.azul.com/downloads/zulu/zulu-windows/>

Anmerkung: **JavaFX**

<https://www.heise.de/developer/meldung/Oracle-gliedert-JavaFX-aus-dem-JDK-aus-3988711.html>

OpenJDK

<https://openjdk.java.net/>

RedHat/OpenJDK

<https://www.redhat.com/en/blog/technological-transition-openjdk>

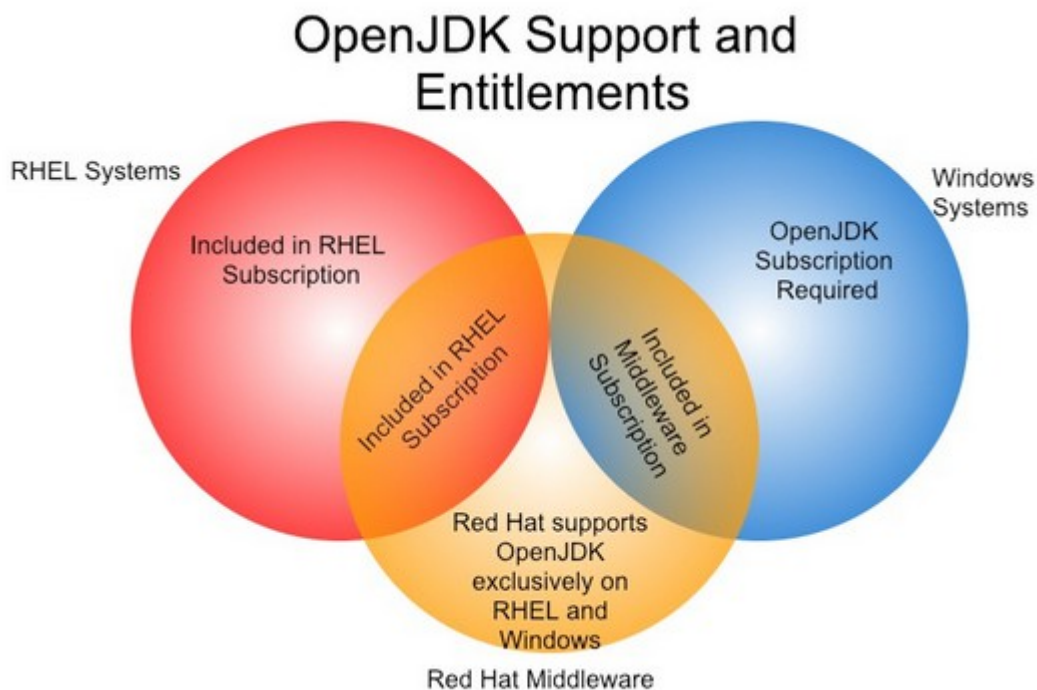
"First, if you are a Red Hat Enterprise Linux customer or a Red Hat Middleware customer - check if your developers are using Oracle JDK for their Java applications. If so, then you can switch to Red Hat's OpenJDK with little or no effort and with no additional cost because it is included in your Red Hat Enterprise Linux entitlement."

OpenJDK Life Cycle and Support Policy

https://access.redhat.com/articles/1299013?extIdCarryOver=true&sc_cid=701f2000001OH6fAAG

Support for Windows

<https://access.redhat.com/solutions/3116731>



OpenJDK vs Oracle JDK

<https://access.redhat.com/solutions/2489791>

Red Hat Application Migration Toolkit

<https://developers.redhat.com/products/rhamt/overview/>

Red Hat's history with OpenJDK

<https://www.redhat.com/en/blog/history-and-future-openjdk>

Infos Oracle/Java

Es gibt zwei Versionen:

Oracle's JDK/kommerziell für Projekte

Oracle's OpenJDK/open source, frei für alle Projekte. Wird zB auf OpenJDK 10 entwickelt und Version 11 erscheint, werden keine Patches für die jeweils letzte Version bereitgestellt.

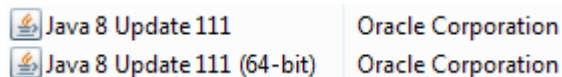
<http://jdk.java.net/>

Oracle's JDK 8 bekommt "KEINE"* GRATIS Sicherheitsupdates mehr nach Jänner 2019 (commercial use). Siehe: "Java SE Subscription."

Public updates for Oracle Java SE 8 will remain available for **individual, personal use** through at least the end of 2020. **Public updates for Oracle Java SE 8 released after January 2019 will NOT be available for business, commercial or production use without a commercial license.**

(Java SE 8 is the last major release of Java targeting browser deployment via **Web Start**. Newer Java SE versions should follow modern application packaging and deployment practices where the JRE is bundled, and distributed, with the application.)

```
C:\Users\user>java -version
java version "1.8.0_111"
Java(TM) SE Runtime Environment
```



"Java SE Subscription includes support for JavaFX on Java SE 8 through Oracle Premier Support timelines ..." (<https://www.oracle.com/technetwork/java/java-se-support-roadmap.html>)

IJUG - Interessenverbund der Java User Groups e.V.

<https://www.ijug.eu/>

Oracles neue Supportpolitik für Java im Detail – Was ändert sich?

[https://www.ijug.eu/de/home/news/?tx_news_pi1\[news\]=1771](https://www.ijug.eu/de/home/news/?tx_news_pi1[news]=1771)

IBM FAQ to Oracle's Java Products Commercial Licensing

<https://developer.ibm.com/javasdk/support/commercial-licensing/>

"Their commercial Java products includes the Oracle Java™ Developer Kit (JDK), **Java™ Runtime Environment (JRE)** and related commercial features. **IBM recommends** you choose an equivalent IBM JRE, or a Java build of an open-source JRE (based on **OpenJDK**) such as OpenJDK with Eclipse **OpenJ9** (see AdoptOpenJDK), which will remain free-to-use for commercial purposes."

Oracle Roadmap

<https://www.oracle.com/technetwork/java/java-se-support-roadmap.html>

Oracle Java SE Releases FAQ

<https://blogs.oracle.com/java-platform-group/oracle-java-se-releases-faq>

Java SE Subscription / Infos und Kosten

<https://www.oracle.com/technetwork/java/javaseproducts/overview/javasesubscriptionfaq-4891443.html>