How To Install Java with Apt on Ubuntu 18.04

Java   Ubuntu 18.04

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English

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Ubuntu 18.04

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Introduction

Java and the JVM (Java's virtual machine) are required for many kinds of software, including Tomcat, Jetty, Glassfish, Cassandra and Jenkins.

In this guide, you will install various versions of the Java Runtime Environment (JRE) and the Java Developer Kit (JDK) using `apt` . You'll install OpenJDK as well as official packages from Oracle. You'll then select the version you wish to use for your projects. When you're finished, you'll be able to use the JDK to develop software or use the Java Runtime to run software.

Prerequisites

To follow this tutorial, you will need:

- One Ubuntu 18.04 server set up by following the the Ubuntu 18.04 initial server setup guide tutorial, including a sudo non-root user and a firewall.

Installing the Default JRE/JDK

The easiest option for installing Java is to use the version packaged with Ubuntu. By default, Ubuntu 18.04 includes OpenJDK version 11, which is an open-source variant of the JRE and JDK.

To install this version, first update the package index:

```
sudo apt update
```

Next, check if Java is already installed:

```
java -version
```

If Java is not currently installed, you'll see the following output:

```
Output
Command 'java' not found, but can be installed with:

apt install default-jre
apt install openjdk-11-jre-headless
apt install openjdk-8-jre-headless
```

Execute the following command to install the default Java Runtime Environment (JRE), which will install the JRE from OpenJDK 11:

```
sudo apt install default-jre
```

The JRE will allow you to run almost all Java software.

Verify the installation with:

```
java -version
```

You'll see the following output:

```
Output
openjdk version "11.0.7" 2020-04-14
OpenJDK Runtime Environment (build 11.0.7+10-post-Ubuntu-2ubuntu218.04)
OpenJDK 64-Bit Server VM (build 11.0.7+10-post-Ubuntu-2ubuntu218.04, mixed mode, shari
```