Tomitribe

Microservices Hands-on with MicroProfile

Version 1.1, 2020-10-27

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Java Development Kit (JDK) 8

Recommended: OpenJDK Java SE Development Kit (JDK) 8u272-b10

> **ℹ** If you're running Linux and already have OpenJDK 8 installed on your machine, you can skip this section. However, you'll still need to know the path where the JDK is installed.

- In your web browser, navigate to https://adoptopenjdk.net.

- Choose OpenJDK 8 with Hotspot.

- Click "Other platforms"

- Download the archive by clicking the link that matches your operating system. Zip or tar.gz formats are recommended.

- Set the `JAVA_HOME` environment variable to refer to the extracted folder (jdk8u272-b10) and add the bin subdirectory of that folder to your `PATH` as follows:

Linux and Mac OS X

```
$ export PATH="/path/to/jdk8u272-b10/bin:$PATH"
```

Windows

See https://www.java.com/en/download/help/path.xml.

- Open a terminal and verify you get similar output when you run the `java` command below:

```
$ java -version
openjdk version "1.8.0_272"
OpenJDK SE Runtime Environment (build [...])
OpenJDK 64-Bit Server VM (AdoptOpenJDK)(build [...], mixed mode)
```

- You should also be able to run the `javac` command and get similar output:

```
$ javac -version
javac 1.8.0_272
```

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Apache Maven

Recommended: Apache Maven 3.6.2

- In your web browser, navigate to https://maven.apache.org/download.cgi.

- Scroll to the section titled **Files**.

- Download the distribution by clicking the link in the **Binary zip archive** row under the **Link** column.

- When the download completes, extract the distribution (i.e., zip archive).

    ◦ See https://maven.apache.org/install.html for installation instructions.

- Add the bin subdirectory of the extracted folder to your PATH as follows:

    Linux and Mac OS X

    ```
    $ export PATH="/path/to/apache-maven-3.6.2/bin:$PATH"
    ```

    Windows

    See https://maven.apache.org/install.html.

- Open a terminal and verify you get similar output when you run the mvn command below:

    ```
    $ mvn -v
    Apache Maven 3.6.2 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; [...])
    Maven home: [...]/apache-maven-3.6.2
    Java version: 1.8.0_272, vendor: AdoptOpenJDK
    Java home: [...]
    Default locale: en_US, platform encoding: UTF-8
    OS name: [...]
    ```

Alternate installation using SDKMAN!

If you're using a Unix-like operating system, we encourage you to use SDKMAN! to manage the installation (and upgrade) of Java-based software such as Maven, (Oracle) Java, Gradle, and so forth. SDKMAN! handles all the details of downloading the software and setting up entries in your PATH environment variable.

See the SDKMAN! website to get started.

Integrated Development Environment (IDE)

Recommended:

- IntelliJ IDEA Community Edition or

- Eclipse IDE for Java EE Developers

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Appendix A: Resources

- Oracle Java SE

- Apache TomEE

- Apache Maven

- IntelliJ IDEA

- Eclipse IDE

- SDKMAN!—a tool for managing parallel versions of multiple Software Development Kits (e.g., Java, Maven, Gradle, etc.) on most Unix based systems.

- jenv—a tool for managing your Java environment, in particular `JAVA_HOME` and `PATH` entries.