Overview

2.4.1 Java JDK · https://i2b2.org/docs/2-4-1-java-jdk/

Java Requirements

The i2b2 was developed using the Java platform and is needed to develop and deploy the i2b2 cells on the server. The i2b2 server requires the Java Development Kit (JDK) to be installed before you can deploy any i2b2 core cells.

Required Version: Java 17 Oracle or OpenJDK* (i2b2 1.8.2+) or Java 8.0 / 11.0 (i2b2 prior to 1.8.2)

Download: Oracle JDK (http://java.sun.com)

Prior to 1.8.2: Click the link for "Java SE 8u411" or "Java SE 11.0.23 (LTS)", select your operating system, and download the file.

1.8.2+: Click the link for "Java SE 17 (LTS)", select your operating system, and download the file.

Download: OpenJDK 17 (1.8.2+) (https://jdk.java.net/archive/)

1.8.2+: Find the link for the latest OpenJDK 17.0.x build for your operating system, and click to download the file.

* The Oracle JDK 17 license is free only for individuals, development/demonstrations, or when used in conjunction with other specific Oracle software. The OpenJDK is a free alternative that has been tested with i2b2.

Java JDK Installation Steps (Windows install is shown in this example)

1. Go to the Java Website (see link shown above) and download the **Java JDK** file that is appropriate for your environment.

2. Locate the file you just downloaded.

3. The Java JDK file for Windows is an executable file. Click on the file name to launch the Windows Installer

4. The installer will guide you through the installation process.

5. You can change the install location during the installation to a location of your choice.

Tip

You will want to make note of the location as it will be needed further along in the i2b2 installation. In the installation document whenever you see **YOUR_JAVA_HOME_DIR** it will need to be replaced with the location of your Java JDK.

For your convenience an installation Worksheet has been provided at the end of this document to track the setup locations.

Set Java Home Variable

After installing Java JDK you need to set the **JAVA_HOME** environment variable to point to the JDK installation directory. Steps on how to set this variable have been defined in the section called ***Setting System Variables*** which is located within this chapter.

Important

The install programs for JBoss, Apache Ant and Apache Axis2 require the JAVA_HOME variable be defined therefore you need to set it before continuing on to the other installations.