

Installing Celtix

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Downloading Celtix

You can download a Celtix distribution package from the Celtix project page on ObjectWeb:

<http://forge.objectweb.org/projects/celtix>

Celtix is provided in four packages:

	EPL	LPGL
Source	celtix-milestone3-src-epl.tgz	celtix-milestone3-src-lgpl.tgz
Binary	celtix-milestone3-bin-epl.tgz	celtix-milestone3-bin-lgpl.tgz

Download the version that best suits your needs.

Installation Prerequisites

Before installing Celtix Milestone 3, you must ensure that the following products, with the specified versions, are installed on your system:

1. Java 5 developer's kit.
2. Apache ant 1.6.

Java 5 developer's kit

You need to install the J2SE Development Kit (JDK) 5.0, which can be downloaded from the following location:

<http://java.sun.com/j2se/1.5.0/download.jsp>

After installing the JDK, you should set or modify the following environment variables:

JAVA_HOME — set this to point at the root directory of the JDK 5.0 installation.

PATH — ensure that your **PATH** includes the `%JAVA_HOME%\bin` directory (Windows) or `$JAVA_HOME/bin` directory (UNIX).

Apache ant 1.6

If you are planning to install the binary distribution of Celtix, you must install the Apache ant 1.6 build utility, which can be downloaded from the following location:

<http://ant.apache.org/bindownload.cgi>

After installing Apache ant, add the `<AntInstallDir>/bin` directory to your **PATH**.

Installation Prerequisites: Apache ant 1.6

If you are planning to install the source distribution of Celtix, you can optionally use the ant installation provided with that distribution. For more details, see [Installation Instructions](#).

Installation Instructions

You can install Celtix on any operating system that supports the Java 5 platform. To install Celtix, perform the following steps:

1. Unpack the zip file into a directory of your choice, `<CeltixInstallDir>`.
After the zip file is unpacked, the directory, `<CeltixInstallDir>`, will contain a directory named `celtix-<version_number>`; for example `celtix-ms3` indicates a Celtix Milestone 3 binary distribution. If the directory name ends with `-src` then this indicates that it is a source distribution.
2. (Optional) Set the environment variable `CELTIX_HOME` to point to the directory that contains Celtix, for example `CELTIX_INSTALL_DIR/celtix-ms3` or `CELTIX_INSTALL_DIR/celtix-ms3-src`. While this is variable is not necessary, you may find it useful in your development environment.
3. If you are installing the source distribution and you want to use the version of ant included in this distribution, add the directory `CELTIX_HOME/tools/ant/1.6.5/bin` to your `PATH`.
4. If you are installing the source distribution, you must build the `celtix.jar` JAR file. To build the JAR file, do the following:
 - i. Open a command prompt window.
 - ii. Change directory to `CELTIX_HOME`.
 - iii. Enter `ant celtix.jar`.

Testing the Installation

To test the installation of Celtix, try running the Hello World demonstration, located in `CELTIX_HOME/samples/hello_world`. To build and run the Hello World demonstration, perform the following steps:

1. Open a command prompt window.
2. Change directory to `CELTIX_HOME/samples/hello_world`.
3. Enter the command `ant build` to build the demonstration.
4. Open a new command prompt window.
5. Change directory to `CELTIX_HOME/samples/hello_world`.
6. Enter the command `ant server`.
7. From the first command prompt window, enter the command `ant client`.

Running the Unit and System Tests

If you have installed the source distribution of Celtix, you can run the full suite of unit and system tests by performing the following steps:

1. Add `CELTIX_HOME/tools/junit/3.8.1/junit.jar` to your `CLASSPATH`.

Note: Alternatively, you could add the `junit.jar` file to the lib directory of your ant installation.

2. Change directory to `CELTIX_HOME`.
3. Enter the command, `ant test`.

The `build.xml` file in `CELTIX_HOME` provides several targets for compiling and running tests. For a summary of the targets, enter `ant -projecthelp`.