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KimDocs-30-EN: Installation Guide

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This document discusses the system requirements, how to install KIM 3 on Windows or Linux Systems, the default configuration and how to populate the basic KIM corpus.

1. System requirements

The minimum hardware requirements to run the basic KIM installation are:

- Intel® Pentium® IV 1GHz or compatible processor (over 2,5GHz recommended)
- 1,5 GB total system RAM as a minimum (2 GB recommended)
- 500 MB hard disk space
- Linux, Microsoft® Windows (2000 SP2 / XP / 2003 / Vista / 7), Mac OS X 10.5+ (Leopard, Snow Leopard)
- Sun / Oracle JDK SE 1.5.0 or higher ([download](#)) on Linux and Windows and the bundled JDK by Apple on Mac OS X machines.



Running KIM with a JRE is not supported. J2EE is not required. All essential KIM components are 100% pure Java, so KIM will run in all environments with mature Java support. However, only Linux, Windows and Mac OS X Leopard have been tested. KIM requires versions 1.5.0 or later but we recommend to always use the latest patch version of JDK 5 or 6. KIM is a powerful application so any known issues with the Java Virtual Machine will affect it.

- Servlet container or J2EE application server (for the Web User Interface).

The following have been tested and work:

- ◆ Apache Tomcat Server - 5.0.28 or 6.*
- ◆ [Mortbay Jetty](#) 6.1
- ◆ [Sun Glassfish](#) v2
- ◆ [RedHat JBoss](#) 4.2.3

2. Additional Requirements

You need to be a technical expert in Java and to have good knowledge of Semantic Web technologies in order to easily follow this guide.

3. Installing KIM 3

To install KIM 3, follow the instructions below:

1. Extract the KIM installation archive in the desired location. (For convenience we will call the extracted folder **KIM**.)



We recommend paths with no whitespaces in them.

2. Set the location of the JDK

- For Windows

- ◆ Set the location of the JDK you want to use with KIM by uncommenting and editing the line:


```
SET JAVA_HOME=<enter path to JDK here> in
KIM\bin\config\config-machine.bat.
```

OR

- ◇ Go to **Control Panel**, open **System**, select the **Advanced** tab, and click **Environment Variables**. This opens a window where you can enter a new user variable named `JAVA_HOME`. Its value must be the directory where you installed Java.

- For Linux

- ◆ By default KIM tries to read the `JAVA_HOME` environment variable for this purpose. We don't recommend using a JDK bundled with your Linux distribution. Instead use a Sun / Oracle JDK as stated in the requirements above.
- ◆ Another way to set the path for this particular running instance of KIM is to prepend the start command with the following variable assignment: `JAVA_HOME=/opt/jdk1.6.0_18/ && kim start`. This will overwrite the global `JAVA_HOME` environment variable.
- ◆ You may also set the path by uncommenting and editing the line `export JAVA_HOME='<enter path to JDK here>'` in `KIM/bin/config/config`. If uncommented, KIM will use this value of `JAVA_HOME` regardless of the assignments made before that or the value of the corresponding environment variable.
- ◆ Make all shell scripts executable by running the command `chmod -R +x KIM/bin` or by executing the script `KIM/bin/utils/chmod-all.sh`.
- For MacOS, the instructions are the same as Linux with the exception that you must use the bundled JDK by Mac OS X. `JAVA_HOME` should point to `/Library/Java/Home`. See [this Mac OS X reference page](#) for details.



Remember that when you set the path, it must point to JDK and not JRE.

3. To enable the Web User Interface (UI) for all servlet containers, copy the contents of the KIM Clients folder (located in the installation folder) to the content delivery folder of your servlet container. (For Tomcat this is the `webapps` folder).

4. Default configuration

The above installation instructions will prepare KIM to run with the default configuration:

- [Apache Lucene](#) document repository
- Embedded [BigOWLIM](#) semantic repository
- Default memory usage of 1.5 GB RAM.



If you need to use KIM 3 with a larger number of documents, remember to configure the memory usage as described [here](#).

- Enabled [Facets](#) (mnogo e staro, may be Insemtives - Semantic Search?) interface over the semantic repository.
- KIM listening for *local* Java RMI connections on port 1099, using additionally port 10990 for data connections.
- [PROTON](#) as [Ontology](#)
- The [KIM World Knowledge Base](#) (KB) as background knowledge

To run KIM with the default configuration, follow these steps:

1. Open a console window and execute the following command in the bin folder of KIM:

```
kim start
```

2. Review the console output. Booting KIM may take a few minutes. When KIM has started successfully, you will see this message:

```
...  
[INFO] KIM Server startup ended!
```



If you get any error messages, please consult the [Troubleshooting](#) and the [Administration](#) Guide. Maybe some elements of the default configuration are not applicable to your environment.

To stop KIM at any time, you can run: `kim stop` from the bin folder. Alternatively, you can press **Ctrl+C** in the KIM console window.

To connect the web applications to the KIM server, start your preferred servlet container.

5. Population of the basic KIM corpus

Now that KIM has started successfully, you are ready to populate the basic KIM corpus and test its functionality:

For this purpose KIM uses a tool called **Populater**. It is located in `KIM/bin/tools/`. The tool can run in a console (non interactive) or graphical (interactive) mode.

1. To run the **Populater** in Graphical User Interface (GUI) mode, type:
`KIM/bin/tools/populater.`
2. To run the **Populater** in batch (console) mode, type: `KIM/bin/tools/populater console.`
To do that, you need to set up the right configuration in the `populater.xml` configuration file first, but, on other hand, running the **Populater** will not require manual interaction.

When you start the **Populater** for the first time, the default corpus directory will be automatically selected in the file selection box. After you have populated some documents in KIM, they will be accessible in the Web UI. It should be available on the computer hosting KIM at the following address: <http://localhost:8080/KIM>.

See the complete [Populater documentation](#) for more details.

6. Next steps

To enable more functionalities, review the [Administration Guide](#), the [User's Guide](#) and [FAQ](#).

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