# Software specifications

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| Chapter number | Software required (With version) | Free/Proprietary | If proprietary, can code testing be performed using a trial version | If proprietary, then cost of the software | Download links to the software | **Hardware specifications** | OS required |
| 1 - 10 | JDK 1.7.x | Open Source |  |  | http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html |  | Linux / Windows |
| 1 - 10 | Solr 4.8.x | Open Source |  |  | http://lucene.apache.org/solr/ |  | Linux / Windows |
| 9 | Zookeeper 3.4.6 | Open Source |  |  | http://zookeeper.apache.org/ | Need 3 machines to create zookeeper ensemble | Linux / Windows |
| 9 | Apache tomcat 7.0.x | Open source |  |  | http://tomcat.apache.org/download-70.cgi | Need 5 machines to create the Solr Cloud | Linux / Windows |
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# Detailed installation steps (software-wise)

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

1. JDK on windows:
   1. Double click on the installer and proceed with installation
2. JDK on Linux RHEL / Centos
   1. Rpm – ivh jdk-7\*.rpm
3. JDK on Linux Ubuntu / Debian
   1. Dpkg – i jdk-7\*.deb
4. JDK on any other linux
   1. Tar – xvzf jdk-7\*.tar.gz
   2. Edit /etc/profile add the following lines
      1. JAVA\_HOME=<path to jdk folder>
      2. PATH=$PATH:$JAVA\_HOME/bin
   3. Reboot the machine
5. Solr on windows / linux
   1. Extract Solr in any folder
   2. Use java –jar start.jar to start solr server
6. Tomcat on windows
   1. Run the windows installer
7. Tomcat on linux
   1. Extract the tar.gz file in a folder
      1. Tar – xvzf apache-tomcat-7\*.tar.gz
   2. Start tomcat using following command inside the <tomcat\_home> folder
      1. ./bin/startup.sh
8. Zookeeper on windows / linux
   1. Detailed setup provided in chapter 9