

# System Requirements

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## Application Server

### Hardware Requirements

<b>Processor</b>	Dual core Intel Core 2 Duo 2.0 GHz or better
<b>Memory</b>	4GB or more
<b>Disk</b>	2GB free disk space

### Software Requirements

<b>Apache Tomcat</b>	Version 8 or higher
<b>Oracle Java</b>	Version 8 or higher
<b>JVM Options</b>	-Xmx768m -XX:MaxPermSize=256m

## Database

### Hardware Requirements

<b>Processor</b>	Dual core Intel Core 2 Duo 2.0 GHz or better
<b>Memory</b>	4GB or more
<b>Disk</b>	10GB free disk space

### HyperSQL Software Requirements

<b>Version</b>	2.3.0
<b>Default Database Files</b>	em.tmp, em.txt, em.properties, em.script, em.lock, em.lob
<b>Note</b>	HyperSQL is embedded in em.war and runs in the same process as Apache Tomcat.

### MySQL Software Requirements

<b>Version</b>	5.6 or 5.7
<b>Engine</b>	InnoDB

<b>Default database name</b>	em
<b>Connections</b>	20 simultaneous or more
<b>Database creation script</b>	mysql_db.sql
<b>Note</b>	In order to use a MySQL database, download mysql-connector-java.jar for MySQL separately and add it to the Tomcat webapps/em/WEB-INF/lib folder.  See <a href="#">Installing MySQL</a> and <a href="#">Setting up the Database (MySQL or Oracle)</a> for details on installation and setup.

## Oracle Software Requirements

<b>Version</b>	10g, 11g, or 12c
<b>Default table spaces</b>	EM_DATA, EM_TEMP
<b>Connections</b>	20 simultaneous or more
<b>Database creation script</b>	oracle_db.sql
<b>Notes</b>	In order to use an Oracle database, download the appropriate ojdbc jar for your Oracle version separately (from <a href="http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html">http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html</a> ) and add it to the Tomcat webapps/em/WEB-INF/lib folder.  Before using CTP, you must follow the procedure described in <a href="#">Setting up the Database (MySQL or Oracle)</a> .  It is assumed that Oracle server is already installed in the company and it is properly administered by the designated persons.

## Client Browser

- Microsoft Internet Explorer 11 or Microsoft Edge
- Google Chrome 51+
- Mozilla Firefox 46+
- Mac Safari 9+