

# Spring, Hibernate, Ehcache, C3P0 And Hibernate Search Configuration

```
1 <tx:annotation-driven transaction-manager="transactionManager"/>
2
3 <bean id="transactionManager"
4     class="org.springframework.orm.hibernate4.HibernateTransactionManager">
5     <property name="sessionFactory" ref="sessionFactory"/>
6 </bean>
7
8 <bean id="sessionFactory"
9     class="org.springframework.orm.hibernate4.LocalSessionFactoryBean">
10    <property name="dataSource" ref="dataSource"/>
11    <property name="packagesToScan" value="com.codesenior.telif.local.model"/>
12    <property name="hibernateProperties">
13        <props>
14
15            <prop key="hibernate.hbm2ddl.auto">update</prop>
16            <prop key="hibernate.hbm2ddl.import_files">import.sql</prop>
17            <prop key="hibernate.connection.driver_class">com.mysql.jdbc.Driver</prop>
18            <prop key="hibernate.dialect">org.hibernate.dialect.MySQLDialect</prop>
19            <prop key="hibernate.connection.CharSet">utf8</prop>
20            <prop key="hibernate.connection.characterEncoding">utf8</prop>
21            <prop key="hibernate.connection.useUnicode">>true</prop>
22            <prop key="hibernate.show_sql">>true</prop>
23            <prop key="hibernate.format_sql">>true</prop>
24            <prop key="hibernate.cache.use_second_level_cache">>true</prop>
25            <prop key="hibernate.cache.use_query_cache">>true</prop>
26            <prop key="hibernate.generate_statistics">>true</prop>
27            <prop key="javax.persistence.validation.mode">none</prop>
28            <prop key="hibernate.cache.region.factory_class">
29                org.hibernate.cache.ehcache.SingletonEhCacheRegionFactory
30            </prop>
31            <prop key="net.sf.ehcache.configurationResourceName">/ehcache.xml</prop>
32            <!--Hibernate search -->
33            <prop key="hibernate.search.default.directory_provider">filesystem</prop>
34            <prop key="hibernate.search.default.indexBase">C:\lucene\indexes</prop>
35            <prop key="hibernate.search.analyzer">
36                org.apache.lucene.analysis.standard.StandardAnalyzer
37            </prop>
38        </props>
39    </property>
40 </bean>
41
42 <bean id="dataSource"
43     class="org.springframework.jdbc.datasource.LazyConnectionDataSourceProxy">
44     <property name="targetDataSource" ref="c3p0DataSource"/>
45 </bean>
46
47 <bean id="c3p0DataSource"
48     class="com.mchange.v2.c3p0.ComboPooledDataSource" destroy-method="close">
49     <property name="driverClass" value="com.mysql.jdbc.Driver"/>
50     <property name="jdbcUrl"
51         value="jdbc:mysql://localhost:3306/TestDB?autoReconnect=true&
52             useUnicode=true&createDatabaseIfNotExist=true&characterEncoding=utf-8"/>
53     <property name="user" value="test"/>
54     <property name="password" value="test"/>
55     <!-- these are C3P0 properties -->
56     <property name="acquireIncrement" value="1"/>
57     <property name="minPoolSize" value="1"/>
58     <property name="maxPoolSize" value="20"/>
59 </bean>
```

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60     <property name="maxIdleTime" value="180"/>
61 </bean>
```

### Necessary Dependencies

```
1  <properties>
2
3      <!-- Generic properties -->
4      <java.version>1.6</java.version>
5      <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
6      <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
7
8      <spring-framework.version>4.1.4.RELEASE</spring-framework.version>
9      <spring.security.version>3.2.3.RELEASE</spring.security.version>
10     <!-- Hibernate / JPA -->
11     <!-- <hibernate.version>4.3.5.Final</hibernate.version> -->
12     <hibernate.version>4.3.8.Final</hibernate.version>
13     <!-- Logging -->
14     <logback.version>1.0.13</logback.version>
15     <org.slf4j.version>1.7.5</org.slf4j.version>
16 </properties>
17 <dependencies>
18     <!-- Spring Security -->
19     <dependency>
20         <groupId>org.springframework.security</groupId>
21         <artifactId>spring-security-web</artifactId>
22         <version>${spring.security.version}</version>
23     </dependency>
24
25     <dependency>
26         <groupId>org.springframework.security</groupId>
27         <artifactId>spring-security-config</artifactId>
28         <version>${spring.security.version}</version>
29     </dependency>
30
31     <!-- Core utilities used by other modules.
32     Define this if you use Spring Utility APIs
33     (org.springframework.core.* / org.springframework.util.*) -->
34     <dependency>
35         <groupId>org.springframework</groupId>
36         <artifactId>spring-core</artifactId>
37         <version>${spring-framework.version}</version>
38     </dependency>
39     <!-- Bean Factory and JavaBeans utilities (depends on spring-core)
40     Define this if you use Spring Bean APIs
41     (org.springframework.beans.*) -->
42     <dependency>
43         <groupId>org.springframework</groupId>
44         <artifactId>spring-beans</artifactId>
45         <version>${spring-framework.version}</version>
46     </dependency>
47     <!-- Application Context
48     (depends on spring-core, spring-expression, spring-aop, spring-beans)
49     This is the central artifact for Spring's Dependency Injection Container
50     and is generally always defined -->
51     <dependency>
52         <groupId>org.springframework</groupId>
53         <artifactId>spring-context</artifactId>
54         <version>${spring-framework.version}</version>
55         <exclusions>
56             <!-- Exclude Commons Logging in favor of SLF4j -->
57             <exclusion>
58                 <groupId>commons-logging</groupId>
59                 <artifactId>commons-logging</artifactId>
60             </exclusion>
61         </exclusions>
62     </dependency>
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63 <!--contains org.springframework.cache.ehcache package-->
64 <dependency>
65     <groupId>org.springframework</groupId>
66     <artifactId>spring-context-support</artifactId>
67     <version>${spring-framework.version}</version>
68 </dependency>
69 <!-- Web application development utilities applicable to both Servlet and
70 Portlet Environments
71 (depends on spring-core, spring-beans, spring-context)
72 Define this if you use Spring MVC, or wish to use Struts, JSF, or another
73 web framework with Spring (org.springframework.web.*)-->
74 <dependency>
75     <groupId>org.springframework</groupId>
76     <artifactId>spring-web</artifactId>
77     <version>${spring-framework.version}</version>
78 </dependency>
79 <!-- Spring MVC for Servlet Environments
80 (depends on spring-core, spring-beans, spring-context, spring-web)
81 Define this if you use Spring MVC with a Servlet Container such as
82 Apache Tomcat (org.springframework.web.servlet.*)-->
83 <dependency>
84     <groupId>org.springframework</groupId>
85     <artifactId>spring-webmvc</artifactId>
86     <version>${spring-framework.version}</version>
87 </dependency>
88 <dependency>
89     <groupId>org.springframework</groupId>
90     <artifactId>spring-test</artifactId>
91     <version>${spring-framework.version}</version>
92 </dependency>
93 <!-- Transaction Management Abstraction
94 (depends on spring-core, spring-beans, spring-aop, spring-context)
95 Define this if you use Spring Transactions or DAO Exception Hierarchy
96 (org.springframework.transaction.* / org.springframework.dao.*)-->
97 <dependency>
98     <groupId>org.springframework</groupId>
99     <artifactId>spring-tx</artifactId>
100     <version>${spring-framework.version}</version>
101 </dependency>
102 <!-- Object-to-Relation-Mapping (ORM) integration with Hibernate, JPA and iBatis.
103 (depends on spring-core, spring-beans, spring-context, spring-tx)
104 Define this if you need ORM (org.springframework.orm.*)-->
105 <!-- Spring ORM support -->
106 <dependency>
107     <groupId>org.springframework</groupId>
108     <artifactId>spring-orm</artifactId>
109     <version>${spring-framework.version}</version>
110 </dependency>
111 <!-- Expression Language (depends on spring-core)
112 Define this if you use Spring Expression APIs
113 (org.springframework.expression.*)-->
114 <dependency>
115     <groupId>org.springframework</groupId>
116     <artifactId>spring-expression</artifactId>
117     <version>${spring-framework.version}</version>
118 </dependency>
119
120 <!-- Hibernate -->
121 <dependency>
122     <groupId>org.hibernate</groupId>
123     <artifactId>hibernate-entitymanager</artifactId>
124     <version>${hibernate.version}</version>
125 </dependency>
126 <dependency>
127     <groupId>org.hibernate</groupId>
128     <artifactId>hibernate-core</artifactId>
129     <version>${hibernate.version}</version>

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130 </dependency>
131 <dependency>
132     <groupId>org.hibernate</groupId>
133     <artifactId>hibernate-c3p0</artifactId>
134     <version>${hibernate.version}</version>
135 </dependency>
136 <!-- Hibernate library dependency start -->
137 <dependency>
138     <groupId>dom4j</groupId>
139     <artifactId>dom4j</artifactId>
140     <version>1.6.1</version>
141 </dependency>
142 <!-- Servlet -->
143
144 <!--Hibernate Search-->
145
146 <dependency>
147     <groupId>org.hibernate</groupId>
148     <artifactId>hibernate-search-orm</artifactId>
149     <version>5.0.1.Final</version>
150 </dependency>
151
152 <!-- Logging -->
153 <dependency>
154     <groupId>org.slf4j</groupId>
155     <artifactId>slf4j-api</artifactId>
156     <version>${org.slf4j-version}</version>
157 </dependency>
158 <dependency>
159     <groupId>org.slf4j</groupId>
160     <artifactId>jcl-over-slf4j</artifactId>
161     <version>${org.slf4j-version}</version>
162     <scope>runtime</scope>
163 </dependency>
164 <dependency>
165     <groupId>org.slf4j</groupId>
166     <artifactId>slf4j-log4j12</artifactId>
167     <version>${org.slf4j-version}</version>
168     <scope>runtime</scope>
169 </dependency>
170
171 <dependency>
172     <groupId>mysql</groupId>
173     <artifactId>mysql-connector-java</artifactId>
174     <version>5.1.9</version>
175 </dependency>
176
177 <!--Hibernate validator-->
178 <dependency>
179     <groupId>org.hibernate</groupId>
180     <artifactId>hibernate-validator</artifactId>
181     <version>5.1.3.Final</version>
182 </dependency>
183
184 <dependency>
185     <groupId>org.hibernate</groupId>
186     <artifactId>hibernate-ehcache</artifactId>
187     <version>${hibernate.version}</version>
188 </dependency>
189 <dependency>
190     <groupId>net.sf.ehcache</groupId>
191     <artifactId>ehcache-core</artifactId>
192     <version>2.6.10</version>
193 </dependency>
194 </dependencies>
```