

DEPENDENCIAS

Dependencias de Java y Spring para poder usar Spring Data Jpa

```
<dependency>
  <groupId>javax.transaction</groupId>
  <artifactId>jta</artifactId>
  <version>1.1</version>
</dependency>
<dependency>
  <groupId>org.springframework.data</groupId>
  <artifactId>spring-data-jpa</artifactId>
  <version>1.10.5.RELEASE</version>
</dependency>
```

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Dependencias asociadas al motor ORM y el SGBDR escogidos (Hibernate y H2)

```
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-core</artifactId>
  <version>5.1.0.Final</version>
</dependency>
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-entitymanager</artifactId>
  <version>5.1.0.Final</version>
</dependency>
<dependency>
  <groupId>com.h2database</groupId>
  <artifactId>h2</artifactId>
  <version>1.4.193</version>
</dependency>
```

CONFIGURACIÓN dispatcher-servlet.xml

Definimos el bean *datasource*

```
<bean id="dataSource"  
  class="org.springframework.jdbc.datasource.DriverManagerDataSource">  
  <property name="driverClassName" value="org.h2.Driver" />  
  <property name="url" value="jdbc:h2:./ejemplo" />  
  <property name="username" value="sa" />  
  <property name="password" value="" />  
</bean>
```

CONFIGURACIÓN dispatcher-servlet.xml

Definimos el bean *jpaVendorAdapter*

```
<bean id="jpaVendorAdapter"  
    class="org.springframework.orm.jpa.vendor.HibernateJpaVendorAdapter">  
    <property name="showSql" value="true" />  
    <property name="generateDdl" value="true" />  
    <property name="database" value="H2" />  
</bean>
```

CONFIGURACIÓN dispatcher-servlet.xml

Definimos el bean *entityManagerFactory*

```
<bean id="entityManagerFactory"
      class="org.springframework.orm.jpa.LocalContainerEntityManagerFactoryBean">
  <property name="dataSource" ref="dataSource" />
  <property name="jpaVendorAdapter" ref="jpaVendorAdapter" />
  <!-- spring based scanning for entity classes -->
  <property name="packagesToScan" value="com.openwebinars.springmvc.model" />
</bean>
```

Referencia al bean
datasource

Referencia al bean
jpaVendorAdapter

Paquete donde ubicaremos
nuestras clases modelo (*Entities*)

CONFIGURACIÓN dispatcher-servlet.xml

Definimos el bean *transactionManager*

```
<!-- Configure the transaction manager bean -->
<bean id="transactionManager" class="org.springframework.orm.jpa.JpaTransactionManager">
  <property name="entityManagerFactory" ref="entityManagerFactory" />
</bean>

<!-- Enable annotation driven transaction management -->
<tx:annotation-driven />
```



Referencia al bean
entityManagerFactory