

Hibernate Tip: Bootstrap Hibernate with Spring Boot

Question:

How do I bootstrap Hibernate in my Spring Boot application?

Solution:

Spring Boot makes it extremely easy to bootstrap Hibernate. You just need to add the Spring Boot JPA starter to your classpath, and Spring Boot handles the bootstrapping for you.

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
```

You also need to add a database-specific JDBC driver to the classpath of your application. Please check your database documentation for more information.

You define your data source with a few properties in the *application.properties* file. The following configuration example defines a data source that connects to a PostgreSQL database on localhost.

```
spring.datasource.url =
    jdbc:postgresql://localhost:5432/recipes
spring.datasource.username = postgres
spring.datasource.password = postgres
```

Hibernate Tip: Bootstrap Hibernate with Spring Boot

If you add an H2, HSQL, or Derby database on the classpath, you can safely omit the configuration, and Spring Boot starts and connects to an in-memory database. You can also add multiple JDBC drivers and an in-memory database to your classpath and use different configurations for different target environments.

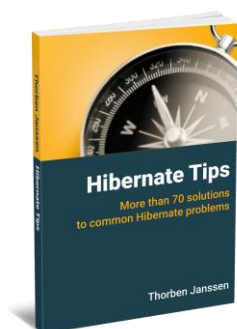
That's all you need to do bootstrap Hibernate in a Spring Boot application. You can now use the *@Autowired* annotation to inject an *EntityManager*.

```
@Autowired
private EntityManager em;
```

Learn more

JPA and Hibernate also provide their own bootstrapping APIs. I explain Hibernate's native API in more detail in: [Hibernate Tip: How to use Hibernate's native bootstrapping API](#).

Hibernate Tips Book



Get more recipes like this one in my book [Hibernate Tips: More than 70 solutions to common Hibernate problems](#).

It gives you more than 70 ready-to-use recipes for topics like basic and advanced mappings, logging, Java 8 support, caching and statically and dynamically defined queries.