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# 10: Spring, JavaConfig (i.e @Configuration), JPA & Hibernate by example

Posted on [October 22, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

## Example #1 Wiring JDBC Datasource

```

1
2 @Configuration
3 @ImportResource("application.yml")
4 public class AppConfig
5 {
6     @Autowired
7     private Environment environment;
8
9     @Bean
10    public DriverManagerDataSource datasource()
11    {
12        DriverManagerDataSource ds = new DriverManagerDataSource();
13        ds.setDriverClassName(environment.getRequiredProperty("driverClassName"));
14        ds.setUrl(environment.getRequiredProperty("url"));
15        ds.setUsername(environment.getRequiredProperty("username"));
16        ds.setPassword(environment.getRequiredProperty("password"));
17        return ds;
18    }
19 }
```

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**application.yml** where the datasource properties are read from.

```

1
2 #####
3 # Datasource properties
4 #####
5 spring:
6
7   datasource:
8     driver-class-name: com.sybase.jdbc4.jdbc.Syb
9     url: jdbc:sybase:Tds:mydbhost:5700/my_db
10    username: user
11    password: pwd
12

```

### Example #2 Wiring JDBC Datasource with JNDI

```

1
2 @Configuration
3 @ImportResource("application.yml")
4 public class AppConfig
5 {
6     @Autowired
7     private Environment environment;
8
9     @Bean
10    public DataSource dataSource() {
11        final JndiDataSourceLookup jndiLookup =
12        final String dataSourceJndi = environmen
13        return jndiLookup.getDataSource(dataSou
14    }
15 }

```

### Example #3 Wiring the JPA persistence unit processors

Callback interface for post-processing a JPA PersistenceUnitInfo. This is useful for auto scanning JPA entities.

```

1
2 @Configuration
3 @ImportResource("application.yml")
4 public class AppConfig
5 {
6     @Autowired
7     private Environment environment;
8
9     @Bean
10    public PersistenceUnitPostProcessor[] persis
11        return new PersistenceUnitPostProcessor[]

```

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```

12     }
13
14     @Bean
15     public DataSource dataSource() {
16         //.....
17     }
18 }

```

### Example #4 Wiring the JPA persistence unit Hibernate entity manager

```

1
2 @Configuration
3 @ImportResource("application.yml")
4 public class AppConfig
5 {
6     @Autowired
7     private Environment environment;
8
9     //.....datasource, persistenceUnitPostProce
10
11     @Bean
12     public LocalContainerEntityManagerFactoryBean
13         final LocalContainerEntityManagerFactory
14         entityManager.setDataSource(dataSource())
15         entityManager.setPackagesToScan(new Stri
16
17         entityManager.setPersistenceUnitName("my
18         entityManager.setPersistenceXmlLocation(
19
20         final HibernateJpaVendorAdapter hibernat
21         entityManager.setJpaVendorAdapter(hibern
22         entityManager.setPersistenceUnitPostProc
23
24         return entityManager;
25     }
26
27 }

```

The “persistence-jpa.xml” looks like

```

1
2 <?xml version="1.0" encoding="UTF-8"?>
3 <persistence xmlns="http://java.sun.com/xml/ns/p
4             xmlns:xsi="http://www.w3.org/2001/XM
5             xsi:schemaLocation="http://java.sun.
6             version="2.0">
7     <persistence-unit name="mydb-persistence-unit
8 </persistence>
9

```

The pom.xml file needs to have the Spring boot JP and Hibernate JARs to be brought-in

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```
1
2 <!-- Spring boot for JPA & Hibernate related jar
3 <dependency>
4   <groupId>org.springframework.boot</groupId>
5   <artifactId>spring-boot-starter-data-jpa</ar
6 </dependency>
7
8 <!-- Sybase DB Driver -->
9 <dependency>
10  <groupId>com.sybase.jconnect</groupId>
11  <artifactId>jconn4</artifactId>
12  <version>7.07-27009</version>
13 </dependency>
14
15 <!-- HSQLDB DB Driver for testing -->
16 <dependency>
17  <groupId>hsqldb</groupId>
18  <artifactId>hsqldb</artifactId>
19  <version>1.8.0.10.1</version>
20 </dependency>
21
```

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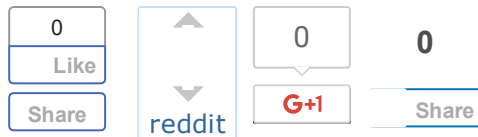
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Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via [Amazon.com](http://Amazon.com) in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site. **945+** paid members. [join my LinkedIn Group](#). [Reviews](#)



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