

[Home](#) › [Interview](#) › [Spring, Hibernate, & Maven Interview Q&A](#) › [Hibernate](#) › 10:

[Spring, JavaConfig \(i.e @Configuration\), JPA & Hibernate by example](#)

# 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 }
```

## 600+ Full Stack Java/JEE Interview Q&As ♥Free ♦FAQs

[open all](#) | [close all](#)

- ✚ Ice Breaker Interview
- ✚ Core Java Interview C
- ✚ JEE Interview Q&A (3
- ✚ Pressed for time? Jav
- ✚ SQL, XML, UML, JSC
- ✚ Hadoop & BigData Int
- ✚ Java Architecture Inte
- ✚ Scala Interview Q&As
- ✚ Spring, Hibernate, & I
- ✚ Spring (18)
  - ✚ Spring boot (4)
  - ✚ Spring IO (1)
  - ✚ Spring JavaConfi
  - 10: Spring, Ja
  - Spring, JavaC
  - Spring, JavaC
  - Spring, JavaC
  - 01: ♥♦ 13 Spring
  - 01b: ♦ 13 Spring
  - 02: ► Spring DII
  - 03: ♥♦ Spring DI
  - 04 ♦ 17 Spring b

**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[]

```

05: ♦ 9 Spring B  
06: ♥ Debugging  
07: Debugging S  
Spring loading p

▣ Hibernate (13)

01: ♥♦ 15+ Hiber

01b: ♦ 15+ Hiber

02: Understandir

03: Identifying ar

04: Identifying ar

05: Debugging H

06: Hibernate Fil

07: Hibernate mi

08: Hibernate au

09: Hibernate en

10: Spring, Java

11: Hibernate de

12: Hibernate cu

▣ AngularJS (2)

▣ Git & SVN (6)

▣ JMeter (2)

▣ JSF (2)

▣ Maven (3)

▣ Testing & Profiling/Sa

▣ Other Interview Q&A 1

▣  Free Java Interview

## 16 Technical Key Areas

open all | close all

▣ Best Practice (6)

▣ Coding (26)

▣ Concurrency (6)

▣ Design Concepts (7)

▣ Design Patterns (11)

▣ Exception Handling (3)

▣ Java Debugging (21)

▣ Judging Experience In

▣ Low Latency (7)

```

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

- ⊞ Memory Management
- ⊞ Performance (13)
- ⊞ QoS (8)
- ⊞ Scalability (4)
- ⊞ SDLC (6)
- ⊞ Security (13)
- ⊞ Transaction Managen

## 80+ step by step Java Tutorials

open all | close all

- ⊞ Setting up Tutorial (6)
- ⊞ Tutorial - Diagnosis (2)
- ⊞ Akka Tutorial (9)
- ⊞ Core Java Tutorials (2)
- ⊞ Hadoop & Spark Tuto
- ⊞ JEE Tutorials (19)
- ⊞ Scala Tutorials (1)
- ⊞ Spring & Hlbernate Ti
- ⊞ Tools Tutorials (19)
- ⊞ Other Tutorials (45)

## 100+ Java pre-interview coding tests

open all | close all

- ⊞ Can you write code? (1)
- ⊞ ♦ Complete the given
- ⊞ Converting from A to I
- ⊞ Designing your classe
- ⊞ Java Data Structures
- ⊞ Passing the unit tests
- ⊞ What is wrong with th
- ⊞ Writing Code Home A
- ⊞ Written Test Core Jav
- ⊞ Written Test JEE (1)

```

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

```

**How good  
are your .....?**

[open all](#) | [close all](#)

 [Career Making Know-](#)

 [Job Hunting & Resum](#)

## Popular Member Posts

♦ 11 Spring boot interview questions & answers

904 views

♦ Q11-Q23: Top 50+ Core on Java OOP Interview Questions & Answers

816 views

001A: ♦ 7+ Java integration styles & patterns interview questions & answers

427 views

18 Java scenarios based interview Questions and Answers

407 views

♦ 7 Java debugging interview questions & answers

322 views

01b: ♦ 13 Spring basics Q8 – Q13 interview questions & answers

310 views

01: ♦ 15 Ice breaker questions asked 90% of the time in Java job interviews with hints

302 views

♦ 10 ERD (Entity-Relationship Diagrams) Interview Questions and Answers

301 views

♦ Q24-Q36: Top 50+ Core on Java classes, interfaces and generics interview questions & answers

251 views

## 001B: ♦ Java architecture & design concepts

### interview questions & answers

209 views

Bio

Latest Posts



#### Arulkumaran Kumaraswamipillai

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](https://www.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](#)



#### About Arulkumaran Kumaraswamipillai

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](https://www.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](#)

◀ Spring, JavaConfig (i.e @Configuration) & JDBC by example

YAML with Spring & Java Q&As ▶

**Posted in** Hibernate, JPA, member-paid, Spring JavaConfig

## Empowers you to open more doors, and fast-track

### Technical Know Hows

☀ [Java generics in no time](#) ☀ [Top 6 tips to transforming your thinking from OOP to FP](#) ☀ [How does a HashMap internally work? What is a hashing function?](#)  
☀ [10+ Java String class interview Q&As](#) ☀ [Java auto un/boxing benefits & caveats](#) ☀ [Top 11 slacknesses that can come back and bite you as an experienced Java developer or architect](#)

### Non-Technical Know Hows

☀ [6 Aspects that can motivate you to fast-track your career & go places](#) ☀ [Are you reinventing yourself as a Java developer?](#) ☀ [8 tips to safeguard your Java career against offshoring](#) ☀ [My top 5 career mistakes](#)

## Prepare to succeed

☀ [Turn readers of your Java CV go from “Blah blah” to “Wow”?](#) ☀ [How to prepare for Java job interviews?](#) ☀ [16 Technical Key Areas](#) ☀ [How to choose from multiple Java job offers?](#)

Select Category ▼

## © Disclaimer

The contents in this Java-Success are copy righted. The author has the right to correct or enhance the current content without any prior notice.

These are general advice only, and one needs to take his/her own circumstances into consideration. The author will not be held liable for any damages caused or alleged to be caused either directly or indirectly by these materials and resources. Any trademarked names or labels used in this blog remain the property of their respective trademark owners. No guarantees are made regarding the accuracy or usefulness of content, though I do make an effort to be accurate. Links to external sites do not imply endorsement of the linked-to sites.