Spring

Spring - JDK

Spring Framework	JDK
5.3.x	JDK 8 ~ 19
5.2.x	JDK 8 ~ 15
5.1.x	JDK 8 ~ 12
5.0.x	JDK8 ~ 10
4.3.x	JDK6 ~ 8

Spring Boot - JDK

[Spring]   JDK

DI

```
Dependency Injection (            )
```

IoC

```
   (              )
```

AOP

```

```

- [   ] Spring   (multiple package)
- Collection   - Spring
- XML   -
- Appendix E. XML Schema-based configuration
-              jpa

- Spring   Interceptor   Session

- Spring Framework   (   )

Ajax

-                    - Ajax   (@RequestBody, @ResponseBody)

Annotation

- Spring   RequestMapping
- @SuppressWarning

Bean

```
//        bean

String[] beanNames = applicationContext.getBeanDefinitionNames();

// bean
for(String beanName : beanNames) {
    System.out.println(beanName);
}

or

beanNames.forEach(System.out::println);
```

Cache

- Cache   .. (Spring+EHCache)
-                   Cache

Controller

-
- Spring Boot : Interceptor   forward

DBCP

- [   ]   ?

- [   ] Commons DBCP

Error

-

JSTL

- JSTL

Logging

- Spring   Powerful   SQL
- log4jdbc-remix   Custom SQL Formatter   (SQL log   )
- Log4j 2   [   ]
- [   ] log4j2
- Log4j 2

Maven

-         Tip
- [Maven] ojdbc6   Missing artifact com.oracle:ojdbc6:jar:11.2.0.3

ojdbc8

```xml
<dependency>
    <groupId>com.oracle.ojdbc</groupId>
    <artifactId>ojdbc8</artifactId>
    <version>19.3.0.0</version>
</dependency>
```

MessageConverter

- messageConverter

Mybatis

- Mybatis

Parameter Mapping(   )

- [Spring] Parameter Mapping

Resource

- Spring: MVC. JSP   JS CSS

Schedule

Quartz

"0 0 12 * * ?"

    12 (   )

"0 15 10 ? * *"

    10   15

"0 15 10 * * ?"

    10   15

"0 15 10 * * ? *"

    10   15

"0 15 10 * * ? 2005"

2005   10   15

"0 * 14 * * ?"

    2   2   59

"0 0/5 14 * * ?"

    2   2   55   5

"0 0/5 14,18 * * ?"

    2   2   55   5

    6   6   55   5

"0 0-5 14 * * ?"

    2   2   05

"0 10,44 14 ? 3 WED"

3   2 10   2 44

"0 15 10 ? * MON-FRI"

      ,   ,   ,   ,   10 15

"0 15 10 15 * ?"

    15   10 15

"0 15 10 L * ?"

                    10 15

"0 15 10 ? * 6L"

                    10 15

"0 15 10 ? * 6L 2002-2005"

2002   2005   10 15

"0 15 10 ? * 6#3"

                    10 15

[JAVA] Quartz (   )   (scheduling)

- Spring + Quartz
- Quartz + Spring Batch

-                     Scheduling
-            -

web.xml

- [SPRING] Spring welcome-file-list

Tip

Troubleshooting

                              .properties

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Spring Note

- Spring Note

, , , eleven, , message, , , , , ,
DBCP

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