

# 使用idea对spring framework源码debug

说明：请严格按照几个版本来搭建环境，否则可能会编译不了发生各种问题。

## 1、版本

spring framework 5.3.10 [重要]

IntelliJ IDEA 2020.2.4

gradle-6.9.1 [重要]

jdk-11.0.15 [重要]

## 2、下载地址

spring framework 5.3.10

```
1 # https://gitee.com/ellisonpei/spring-framework-5.3.10.git
```

gradle-6.9.1

```
1 # https://downloads.gradle-dn.com/distributions/gradle-6.9.1-bin.zip
```

jdk-11.0.15

```
1 # https://www.oracle.com/java/technologies/javase/jdk11-archive-downloads.html
2 #
  https://download.oracle.com/otn/java/jdk/11.0.15+8/c4e1848573124815b77d6f1843afccb5/jdk-11.0.15_windows-x64_bin.zip?AuthParam=1652338291_536e45373fe4d93c52990401b07068df
```

## 3、搭建步骤

### 3.1、配置环境变量

- 配置jdk11、gradle6.9.1环境变量（略）
- 验证版本

```
D:\>java -version
java version "11.0.15" 2022-04-19 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.15+8-LTS-149)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.15+8-LTS-149, mixed mode)
```

```
D:\>gradle -v
```

```
-----  
Gradle 6.5.1  
-----
```

```
Build time:   2020-06-30 06:32:47 UTC  
Revision:    66bc713f7169626a7f0134bf452abde51550ea0a  
  
Kotlin:      1.3.72  
Groovy:      2.5.11  
Ant:         Apache Ant(TM) version 1.10.7 compiled on September 1 2019  
JVM:         11.0.15 (Oracle Corporation 11.0.15+8-LTS-149)  
OS:          Windows 11 10.0 amd64
```

## 3.2、对代码进行预编译

```
1 # gradlew spring-oxm:compileTestJava
```

如有错，解决错误，最终要成功，这是前提。

## 3.3、把build.gradle导入idea

```
1 # File -> New -> Project from Existing Sources -> Navigate to directory ->  
   Select build.gradle
```

这块是最耗时的，只需等待。

## 3.4、排除掉 spring-aspects 模块配置

在settings.gradle文件中把 include "spring-aspects" 注释掉

## 3.5、在spring-core模块中创建测试类进行debug

UserService.java

```
1 package com.mangxiao;  
2 public class UserService {  
3  
4     public UserService(){  
5         System.out.println("UserService init ....");  
6     }  
7 }
```

AppConfig.java

```
1 package com.mangxiao;
2
3 import org.springframework.beans.factory.annotation.Configurable;
4 import org.springframework.context.annotation.Bean;
5
6 @Configurable
7 public class AppConfig {
8     @Bean
9     private UserService user() {
10         return new UserService();
11     }
12 }
```

### BeanTest.java

```
1 package com.mangxiao;
2 import
org.springframework.context.annotation.AnnotationConfigApplicationContext;
3 public class BeanTest {
4     public static void main(String[] args) {
5         AnnotationConfigApplicationContext applicationContext = new
AnnotationConfigApplicationContext(AppConfig.class);
6         UserService userService =
applicationContext.getBean(UserService.class);
7         System.out.println(userService);
8     }
9 }
```