



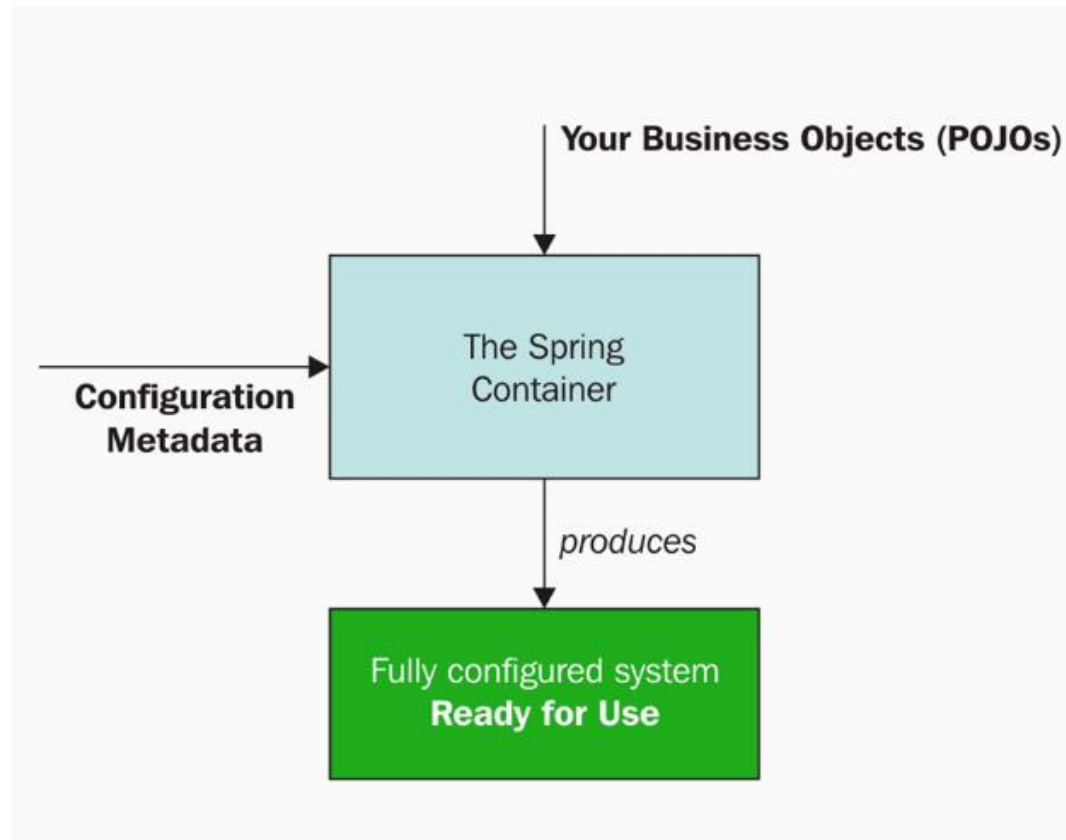
Spring Bean Lifecycle




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High Level View





1 - تعریف Bean ها


- جهت تعریف POJO ها به عنوان spring bean کافی است annotation `@Component` را بالای سر آن بگذاریم

```
@Component
```

```
public class Class1 {
```

```
}
```

```
public static void main(String[] args) {  
    ConfigurableApplicationContext context =  
        SpringApplication.run(FodApplication.class, args);  
    context.getBean(Class1.class);  
}
```



2 - تعریف Bean ها

- روش دوم تعریف bean با استفاده از متود و annotation @Bean میباشد

```
@Configuration
public class GeneralConfiguration {

    @Bean(initMethod = "init" , destroyMethod = "destroy")
    public Class1 class1(){
        return new Class1();
    }
}
```



Scopes

Scope name	Description
singleton	(Default) Scopes a single bean definition to a single object instance per Spring IoC container
prototype	Scopes a single bean definition to any number of object instances
request	Scopes a single bean definition to the lifecycle of a single HTTP request
session	Scopes a single bean definition to the lifecycle of an HTTP Session
application	Scopes a single bean definition to the lifecycle of a ServletContext
websocket	Scopes a single bean definition to the lifecycle of a WebSocket



Scopes

```
@Component
@Scope(scopeName = ConfigurableBeanFactory.SCOPE_PROTOTYPE)
public class Class1 implements InitializingBean {

    ....

    System.out.println(context.getBean(Class1.class));
    System.out.println(context.getBean(Class1.class));

    ...

    com.demisco.fod.Class1@37ff4054
    com.demisco.fod.Class1@2472c7d8
```



روش های DI

- سه روش اصلی برای inject کردن وابستگی ها وجود دارد :

Constructor –

Annotation (@Autowired) –

Setter Method –

@Bean

```
public SimpleDateFormat persianDateFormat() {  
    SimpleDateFormat simpleDateFormat =  
        new SimpleDateFormat("yyyy/MM/dd"  
            , new Locale("fa", "IR"));  
    return simpleDateFormat;  
}
```



Constructor

```
@Component
public class Class1 {

    private SimpleDateFormat persianDateFormat;

    public Class1(SimpleDateFormat persianDateFormat) {
        this.persianDateFormat = persianDateFormat;
    }
}
```




Annotation

```
@Autowired  
private SimpleDateFormat persianDateFormat;
```

```
@Autowired  
@Qualifier("persianDateFormat")  
private SimpleDateFormat dateFormat;
```



Setter method

```
private SimpleDateFormat dateFormat;  
  
@Autowired  
@Qualifier("persianDateFormat")  
public void setDateFormat(SimpleDateFormat dateFormat) {  
    this.dateFormat = dateFormat;  
}
```



Context Configuration methods

- Xml
- Java Annotations
- Groovy DSL