

Spring概述

1. Spring框架是构建企业应用程序轻量级的解决方案;
2. Spring是模块化的, 应用程序可以按需导入模块;
3. Spring的两大核心是 **IOC** (Inversion Of Control: 控制翻转)和 **AOP** (Aspect Oriented Programming: 面向切面编程);
4. Spring提供了与第三方框架(如: 持久层框架Hibernate等、消息队列、缓存等)的无缝集成;

Spring作者简介

1. 作者: **Rod Johnson**

Rod Johnson在悉尼大学不仅获得了计算机学位, 同时还获得了音乐学的博士学位。

Rod Johnson曾经是JSR 154专家组成员, 这个专家组负责定义Servlet 2.4规范;

Rod Johnson是澳大利亚人, 很长一段时间生活和工作都在伦敦;

2. 另一个作者: **Juergen Hoeller**



Spring Framework project lead | Linz, Austria

Juergen Hoeller is co-founder of the Spring Framework open source project and has been serving as the project lead and release manager for the core framework since 2003. Juergen is an experienced software architect and consultant with outstanding expertise in code organization, transaction management and enterprise messaging.



Spring发展历程

1. 2002年10月, Rod Johnson出版了《Expert One-On-One J2EE Design And Development》, 书中的代码后来变成了Spring框架基础代码;
2. 2003年6月, 发布Spring Framework 0.9;
3. **2004年5月, 发布Spring Framework 1.0;** 很快, 它被大量Java开发人员使用了;
4. 2004年8月, Rod Johnson(罗德·约翰逊)、Juergen Hoeller(于尔根·霍勒)、Keith Donald(基思·唐纳德)和Colin Sampalanu(科林·萨姆帕利亚努)共同创立了Spring咨询公司, 名字叫Interface21;
5. 2006年10月, 发布Spring 2.0; Spring 2.0具有简化XML配置、支持JDK5.0、支持动态语言等特点;
6. **2007年11月, 发布Spring 2.5; 这时, 公司名称由Interface21变更为SpringSource;**
Spring 2.5增加了注解支持等特性;
7. 2009年8月, SpringSource被VMWare以4.2亿美元收购。
8. **2009年12月, Spring 3.0发布;**
Spring 3.0提供了Spring表达式语言

基于Java代码的Bean配置(Java Config)和JavaEE6的支持;

重大增强: 在Spring MVC中对RESTful的支持;

9. 2012年7月, Rod Johnson离开了Spring团队, Spring框架的流行极大地影响了Java EE平台的发展
10. 2013年4月, VMWare、EMC和GE(美国通用电气公司)合资建立了Pivotal, 所有Spring应用程序都被转移到这个新公司;
11. 2013年12月, 发布Spring 4.0, 主要功能包括支持JDK8, Groovy DLS定义bean的方式和WebSockets.
12. 2017年7月, 发布Spring 5.0, 支持响应式编程模型和Java EE 7;
13. 2021年9月2日, Spring宣布了Spring Framework 6 和 Spring Boot 3的开发计划

[Spring Framework 6正式版计划于2022 年第四季度发布](#)

Spring Framework 6 将基于 JDK 17 和 Jakarta EE 9 (Tomcat 10.0 +) ;

A Java 17 and Jakarta EE 9 baseline for Spring Framework 6

ENGINEERING | JUERGEN HOELLER | **SEPTEMBER 02, 2021** 0 COMMENT

As announced at SpringOne yesterday, Spring Framework 6 and Spring Boot 3 are planned towards a high-end baseline for their general availability in Q4 2022:

- **Java 17+** (from Java 8-17 in the Spring Framework 5.3.x line)
- **Jakarta EE 9+** (from Java EE 7-8 in the Spring Framework 5.3.x line)

This forward-looking baseline will provide significant benefits in our API design and integration efforts, shining through to your application code and future-proofing the framework as well as your applications for many years to come. However, it comes at a cost, of course: **Spring Framework 6 and Spring Boot 3 based applications will require a minimum of JDK 17 at runtime, as well as a minimum of Tomcat 10 / Jetty 11 (for Jakarta EE 9 compatibility)**. Even more importantly, there might be some changes required in your application source code: e.g. **the `javax` to `jakarta` namespace change in Jakarta EE 9** wherever you're touching the Servlet API, JPA, Bean Validation, etc.

While this may sound aggressive at first, keep in mind that we're talking about a Q4 2022 release. By that time, not only will JDK 17 have superseded JDK 11 as the next Long-Term Support release for more than a year, it will itself have been superseded by JDK 18 and JDK 19 as then-available feature releases, with JDK 20 approaching its feature freeze already. Same for Jakarta EE 9: We expect Jakarta EE 10 to be out by then, and yet another generation of Tomcat, Jetty and co to be supported as runtime options. Keeping up the baseline above as a minimum, this allows for picking up further Java evolution in the Spring Framework 6.x generation, with Java 17 and Jakarta EE 9 only being the start.

14. 2022年11月16日, Spring发布6.0正式版本

[spring-framework-6-0-goes-ga](#)

Pivotal公司简介

1. 1989年, Rob Mee创立的Pivotal Labs;
2. 2012年, Pivotal Labs被EMC收购;
3. 2013年, EMC和VMWare分拆旗下业务成立Pivotal Software新公司, 股东是EMC、VMware和GE (通用电气);
4. 2014年, 成立Cloud Foundry基金会, 发布Spring Boot;
5. 2015年, 发布Spring Cloud, Pivotal Cloud Foundry实现了AWS和Azure支持;
6. 2016年, 获得福特和微软投资, 母公司EMC被戴尔收购;
7. Pivotal公司的开源产品有:
 - Spring 以及 Spring 衍生产品;
 - 缓存中间件Redis

- **消息中间件** RabbitMQ
- 平台即服务的Cloud Foundry
- Greenplum数据引擎
- GemFire（12306系统解决方案组件之一）