



黑客派

SpringBoot 入门

作者: [Javen](#)

原文链接: <https://hacpai.com/article/1494493052132>

来源网站: [黑客派](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

<h2 id="简介">简介</h2>

<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>

<!-- 黑客派PC帖子内嵌-展示 -->

<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342" data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></ins>

<script>

(adsbygoogle = window.adsbygoogle || []).push({});

</script>

<p>在您第1次接触和学习Spring框架的时候，是否因为其繁杂的配置而退却了？在你第n次使用Spring框架的时候，是否觉得一堆反复黏贴的配置有一些厌烦？那么您就不妨来试试使用Spring Boot来让更易上手，更简单快捷地构建Spring应用！</p>

<p>Spring Boot让我们的Spring应用变的更轻量化。比如：你可以仅仅依靠一个Java类来运行一个Spring应用。你也可以打包你的应用为jar并通过使用java -jar来运行你的Spring Web应用。</p>

<p>Spring Boot的主要优点：</p>

为所有Spring开发者更快的入门

开箱即用，提供各种默认配置来简化项目配置

内嵌式容器简化Web项目

没有冗余代码生成和XML配置的要求

<hr>

<h2 id="快速入门">快速入门</h2>

<p>本章主要目标完成Spring Boot基础项目的构建，并且实现一个简单的Http请求处理，通过这个过程对Spring Boot有一个初步的了解，并体验其结构简单、开发快速的特性。</p>

<h2 id="系统要求：">系统要求：</h2>

系统要求：</h2>

Java 7及以上

Spring Framework 4.1.5及以上

<p>本文采用<code>Java 1.8.0_73</code>、<code>Spring Boot 1.3.2</code>调试过。</p>

<h2 id="使用Maven构建项目">使用Maven构建项目</h2>

通过<code>SPRING INITIALIZR</code>工具产生基础项目

访问：<code>http://start.spring.io</code>

选择构建工具<code>Maven Project</code>、Spring Boot版本<code>1.3.2</code>以及一些工程基本信息，可参考下图所示 SPRING INITIALIZR

```
<li>点击<code>Generate Project</code>下载项目压缩包</li>
</ol></li>
<li>解压项目包，并用IDE以<code>Maven</code>项目导入，以<code>IntelliJ IDEA 14</cod
>为例：
<ol>
<li>菜单中选择<code>File</code>-&gt;<code>New</code>-&gt;<code>Project from Exi
ting Sources...</code></li>
<li>选择解压后的项目文件夹，点击<code>OK</code></li>
<li>点击<code>Import project from external model</code>并选择<code>Maven</code>
点击<code>Next</code>到底为止。</li>
<li>若你的环境有多个版本的JDK，注意到选择<code>Java SDK</code>的时候请选择<code>Ja
a 7</code>以上的版本</li>
</ol></li>
</ol>
```

```
<h2 id="项目结构解析"><a href="https://link.hacpai.com/forward?goto=http%3A%2F%2Fblog
didispace.com%2Fspring-boot-learning-1%2F%23%E9%A1%B9%E7%9B%AE%E7%BB%93%E
%9E%84%E8%A7%A3%E6%9E%90" class="headerlink" title="项目结构解析" target="_blank" re
="nofollow ugc"></a>项目结构解析</h2>
```

```
<p><a href="https://link.hacpai.com/forward?goto=http%3A%2F%2Fblog.didispace.com%2F
ontent%2Fimages%2F2016%2F02%2Fchapter1-2.png" title="项目结构" class="gallery-item" ta
get="_blank" rel="nofollow ugc"></a><span>项目结构</span></p>
```

```
<p>通过上面步骤完成了基础项目的创建，如上图所示，Spring Boot的基础结构共三个文件（具体
径根据用户生成项目时填写的Group所有差异）：</p>
```

```
<ul>
<li><code>src/main/java</code>下的程序入口：<code>Chapter1Application</code></li>
<li><code>src/main/resources</code>下的配置文件：<code>application.properties</code>
</li>
<li><code>src/test/</code>下的测试入口：<code>Chapter1ApplicationTests</code></li>
</ul>
```

```
<p>生成的<code>Chapter1Application</code>和<code>Chapter1ApplicationTests</code>
类都可以直接运行来启动当前创建的项目，由于目前该项目未配合任何数据访问或Web模块，程序会
加载完Spring之后结束运行。</p>
```

```
<h2 id="引入Web模块"><a href="https://link.hacpai.com/forward?goto=http%3A%2F%2Fblo
.didispace.com%2Fspring-boot-learning-1%2F%23%E5%BC%95%E5%85%A5Web%E6%A8%A
%E5%9D%97" class="headerlink" title="引入Web模块" target="_blank" rel="nofollow ugc"><
a>引入Web模块</h2>
```

```
<p>当前的<code>pom.xml</code>内容如下，仅引入了两个模块：</p>
```

```
<ul>
<li><code>spring-boot-starter</code>：核心模块，包括自动配置支持、日志和YAML</li>
<li><code>spring-boot-starter-test</code>：测试模块，包括JUnit、Hamcrest、Mockito</li>
</ul>
```

```
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></scr
ipt>
```

```
<!-- 黑客派PC帖子内嵌-展示 -->
```

```
<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342"
data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></in
>
```

```
<script>
(adsbygoogle = window.adsbygoogle || []).push({};
```

```
</script>
```

```
<table>
```

```

<tbody>
<tr>
<td>
<div>
1
</div>
<div>
2
</div>
<div>
3
</div>
<div>
4
</div>
<div>
5
</div>
<div>
6
</div>
<div>
7
</div>
<div>
8
</div>
<div>
9
</div>
<div>
10
</div>
<div>
11
</div>
<div>
12
</div> </td>
<td>
<div>
<span>&lt;<span>dependencies</span>&gt;</span>
</div>
<div>
<span>&lt;<span>dependency</span>&gt;</span>
</div>
<div>
<span>&lt;<span>groupId</span>&gt;</span>org.springframework.boot
<span>&lt;/<span>groupId</span>&gt;</span>
</div>
<div>
<span>&lt;<span>artifactId</span>&gt;</span>spring-boot-starter
<span>&lt;/<span>artifactId</span>&gt;</span>
</div>

```

```

<div>
  <span>&lt;/<span>dependency</span>&gt;</span>
</div>
<div>
  &nbsp;
</div>
<div>
  <span>&lt;<span>dependency</span>&gt;</span>
</div>
<div>
  <span>&lt;<span>groupId</span>&gt;</span>org.springframework.boot
  <span>&lt;/<span>groupId</span>&gt;</span>
</div>
<div>
  <span>&lt;<span>artifactId</span>&gt;</span>spring-boot-starter-test
  <span>&lt;/<span>artifactId</span>&gt;</span>
</div>
<div>
  <span>&lt;<span>scope</span>&gt;</span>test
  <span>&lt;/<span>scope</span>&gt;</span>
</div>
<div>
  <span>&lt;/<span>dependency</span>&gt;</span>
</div>
<div>
  <span>&lt;/<span>dependencies</span>&gt;</span>
</div> </td>
</tr>
</tbody>
</table>
<p>引入Web模块，需添加<code>spring-boot-starter-web</code>模块： </p>
<table>
<tbody>
<tr>
<td>
<div>
  1
</div>
<div>
  2
</div>
<div>
  3
</div>
<div>
  4
</div> </td>
<td>
<div>
  <span>&lt;<span>dependency</span>&gt;</span>
</div>
<div>
  <span>&lt;<span>groupId</span>&gt;</span>org.springframework.boot
  <span>&lt;/<span>groupId</span>&gt;</span>

```

```

</div>
<div>
  <span>&lt;<span>artifactId</span>&gt;</span>spring-boot-starter-web
  <span>&lt;/<span>artifactId</span>&gt;</span>
</div>
<div>
  <span>&lt;/<span>dependency</span>&gt;</span>
</div> </td>
</tr>
</tbody>
</table>
<h2 id="编写HelloWorld服务"><a href="https://link.hacpai.com/forward?goto=http%3A%2F2Fblog.didispace.com%2Fspring-boot-learning-1%2F%23%E7%BC%96%E5%86%99HelloWorld%E6%9C%8D%E5%8A%A1" class="headerlink" title="编写HelloWorld服务" target="_blank" rel="nofollow ugc"></a>编写HelloWorld服务</h2>
<ul>
  <li>创建<code>package</code>命名为<code>com.didispace.web</code>（根据实际情况改）</li>
  <li>创建<code>HelloController</code>类，内容如下</li>
</ul>
<table>
<tbody>
<tr>
<td>
<div>
  1
</div>
<div>
  2
</div>
<div>
  3
</div>
<div>
  4
</div>
<div>
  5
</div>
<div>
  6
</div>
<div>
  7
</div>
<div>
  8
</div>
<div>
  9
</div> </td>
<td>
<div>
  <span>@RestController</span>

```



```
<div>
4
</div>
<div>
5
</div>
<div>
6
</div>
<div>
7
</div>
<div>
8
</div>
<div>
9
</div>
<div>
10
</div>
<div>
11
</div>
<div>
12
</div>
<div>
13
</div>
<div>
14
</div>
<div>
15
</div>
<div>
16
</div>
<div>
17
</div>
<div>
18
</div>
<div>
19
</div>
<div>
20
</div> </td>
<td>
<div>
<span>@RunWith</span>(SpringJUnit4ClassRunner.class)
```



```

</div>
<div>
  <span>@SpringApplicationConfiguration</span>(classes = MockServletContext.class)
</div>
<div>
  <span>@WebAppConfiguration</span>
</div>
<div>
  <span>public</span>
  <span><span>class</span></span> <span>Chapter1ApplicationTests</span> </span>{
</div>
<div>
  &nbsp;
</div>
<div>
  <span>private</span> MockMvc mvc;
</div>
<div>
  &nbsp;
</div>
<div>
  <span>@Before</span>
</div>
<div>
  <span><span>public</span></span> <span>void</span> <span>setUp</span><span>()</span></spa
> <span>throws</span> Exception </span>{
</div>
<div>
  mvc = MockMvcBuilders.standaloneSetup(
  <span>new</span> HelloController()).build();
</div>
<div>
  }
</div>
<div>
  &nbsp;
</div>
<div>
  <span>@Test</span>
</div>
<div>
  <span><span>public</span></span> <span>void</span> <span>getHello</span><span>()</span></s
an> <span>throws</span> Exception </span>{
</div>
<div>
  mvc.perform(MockMvcRequestBuilders.get(
  <span>"/hello" </span>).accept(MediaType.APPLICATION_JSON))
</div>
<div>
  .andExpect(status().isOk())
</div>
<div>
  .andExpect(content().string(equalTo(
  <span>"Hello World" </span>)));

```

```

</div>
<div>
}
</div>
<div>
    &nbsp;
</div>
<div>
}
</div> </td>
</tr>
</tbody>
</table>
<script async src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></scr
pt>
<!-- 黑客派PC帖子内嵌-展示 -->
<ins class="adsbygoogle" style="display:block" data-ad-client="ca-pub-5357405790190342"
data-ad-slot="8316640078" data-ad-format="auto" data-full-width-responsive="true"></in
>
<script>
    (adsbygoogle = window.adsbygoogle || []).push({});
</script>
<p>使用<code>MockServletContext</code>来构建一个空的<code>WebApplicationContext<
code>, 这样我们创建的<code>HelloController</code>就可以在<code>@Before</code>函
中创建并传递到<code>MockMvcBuilders.standaloneSetup () </code>函数中。</p>
<ul>
<li>注意引入下面内容, 让<code>status</code>、<code>content</code>、<code>equalT
</code>函数可用</li>
</ul>
<table>
<tbody>
<tr>
<td>
<div>
1
</div>
<div>
2
</div>
<div>
3
</div> </td>
<td>
<div>
<span>import</span>
<span>static</span> org.hamcrest.Matchers.equalTo;
</div>
<div>
<span>import</span>
<span>static</span> org.springframework.test.web.servlet.result.MockMvcResultMatchers
content;
</div>
<div>
<span>import</span>

```

```
    <span>static</span> org.springframework.test.web.servlet.result.MockMvcResultMatchers
status;
  </div> </td>
</tr>
</tbody>
</table>
```

<p>至此已完成目标，通过Maven构建了一个空白Spring Boot项目，再通过引入web模块实现了一简单的请求处理。 </p>