



黑客派

# Java 基础 5 Servlet 的生命周期

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原文链接: <https://hacpai.com/article/1508173371170>

来源网站: [黑客派](#)

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

<p>Servlet 的体系结构</p>

```
<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>
```

```
<pre><code class="highlight-chroma">1、implements Servlet 接口（大量方法实现）
```

```
init初始化
```

```
service服务--doGet doPost
```

```
destroy销毁
```

```
2、extends GenericServlet（不含协议）
```

```
</code></pre>
```

```
<hr>
```

<p>运行 Servlet 构造<br> ↓<br> Init(只调用一次)<br> ↓<br> 开启线程执行 Service 方法 常驻存<br> ...<br> ...<br> ↓<br> destroy</p>

<p>示例</p>

```
<pre><code class="highlight-chroma">
```

```
import java.io.IOException;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

- Servlet implementation class HelloServlet

```
*/
```

```
@WebServlet("/HelloServlet")
```

```
public class HelloServlet extends HttpServlet {
```

```
private static final long serialVersionUID = 1L;
```

```
//初始化
```

```
@Override
```

```
public void init() throws ServletException {
```

```
System.out.println("servlet init!!");
```

```
};
```

```
//构造
```

```
public HelloServlet() {
```

```
System.out.println("helloServlet Constructor");
```

```
// TODO Auto-generated constructor stub
```

```
}
```

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws Ser
```

```

letException, IOException {
// TODO Auto-generated method stub
System.out.println("service method");
}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
// TODO Auto-generated method stub
System.out.println("service method");
}

//销毁
@Override
public void destroy() {
// TODO Auto-generated method stub
System.out.println("helloServlet destory");
super.destroy();
}
</code></pre>

```

```

<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>部署至 Tomcat 运行 浏览器端登录 <http://localhost:8080/demo/HelloServlet> 查看控制台</p>

```

<p></p>

```

```

<p>关闭 Tomcat 显示<br> </p>

```

```

<p><strong>Servlet 是线程不安全的</strong></p>

```

```

<p>第一次请求来时 创建 HelloServlet 对象 并调用 Init 方法 创建一个线程执行 service 方法<br>二次请求来时, 开启一个线程 执行 service 方法<br> </p>

```

```

<p>PS: Servlet 自动加载<br> load-on-startup 设置 Servlet 随服务器启动而启动, 正数的值越大, 该 servlet 的优先级越高, 应用启动时就越先加载。当值相同时, 容器就会自己选择顺序来加载。</p>

```