



链滴

# SpringCloud Alibaba 微服务实战十 - 服务网关

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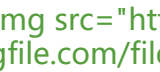
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导读：在 SpringCloud 体系架构中，我们需要部署一个单独的网关服务对外提供访问入口，然网关服务根据配置好的规则将请求转发至具体的后端服务，本章内容主要是给我们的微服务加上网关 SpringCloud Gateway。

## 前言

我们有了三个服务 `account-service`，`product-service`，`order-service`。现在有客户端 `WEB应用` 或 `APP应用` 需要访问后端服务获取数据那么就需要在客户端维护好三个服务的访问路径。



这样的架构会有如下几个典型的问题：

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- 每个微服务都需要配置单独的访问域名，开通外网访问权限，每新增一个服务都需要先让运维人配置好域名映射
- 客户端需要维护所有微服务的访问地址，试想一下如果微服务有几十几百个呢？
- 当服务需要对接口进行权限控制，必须要认证用户才能调用，那么所有的权限逻辑在服务端都要新编写一套。
- 。。。



所以我们需要在微服务之前加一个网关服务，让所有的客户端只要访问网关，网关负责对请求进行转发；将权限校验逻辑放到网关的过滤器中，后端服务不需要再关注权限校验的代码；只需要对外提供一个可供外网访问的域名地址，新增服务后也不需要再让运维人员进行网络配置了，这样上面的架构变成了如下所示：



## 创建网关模块

在项目中建立 `cloud-gateway` 模块，`spring-cloud-gateway` 作为微服务体系中的一环也需要将自身注册进 Nacos 并集成 Nacos 配置中心。

- `pom.xml`



```
<?xml version="1.0" encoding="UTF-8" >
```

```
<project <xmlns="http://maven.apache.org/POM/4.0.0" <xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" <xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd" <parent><artifactId></artifactId><groupId>com.jianzh5.cloud</groupId><version>1.0.0</version>
```

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light-nt">&lt;/project&gt;</span>
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<ul>
<li>启动类</li>

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</span></span></span></code></pre>
<ul>
<li>在 nacos 中建立网关的路由配置</li>
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<pre><code class="language-yaml highlight-chroma"><span class="highlight-line"><span c
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s="highlight-w">    </span><span class="highlight-l">Path=/order/**</span><span cl
ss="highlight-w">
</span></span></span></code></pre>
```

<p>配置详解: </p>

<blockquote>

<p>id: 在所有路由定义中需要唯一, 不能重复<br>

uri: lb://\*\* lb://为固定写法, 表示开启负载均衡; \*\* 即服务在 Nacos 中注册的名字<br>

predicates:- Path=/product/\*\* 使用"Path Route Predicate Factory", 规则为/product/\*\* 的请求还转发至微服务 product-service 中。</p>

</blockquote>

<p>上面的配置逻辑为: <br>

① 以 <code>http://localhost:8090/product/\*\*</code> 的访问路径会转发到 <code>product-sevice</code> 微服务的 <code>/\*\*</code><br>

② 以 <code>http://localhost:8090/account/\*\*</code> 的访问路径会转发到 <code>account-sevice</code> 微服务的 <code>/\*\*</code><br>

③ 以 <code>http://localhost:8090/order/\*\*</code> 的访问路径会转发到 <code>order-servic</code> 微服务的 <code>/\*\*</code></p>

<ul>

<li>启动所有服务，确认是否转发<br>

 </li>  
</ul>

<p>好了，各位朋友们，本期的内容到此就全部结束啦，能看到这里的同学都是优秀的同学，下一个职加薪的就是你了！<br>

如果觉得这篇文章对你有帮助的话请扫描下面二维码加个关注。<br>

"转发" 加 "在看"，养成好习惯！咱们下期再见！<br>

 </p>

<blockquote>

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<li> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fwww.javadaily.cn%2Farticle%2F2020%2F01%2F02%2F1577935668020.html" target="\_blank" rel="nofollow ugc">SpringCloud Alibaba 微服务实战九 - Seata 容器化</a> </li>

<li> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fwww.javadaily.cn%2Farticle%2F2019%2F12%2F25%2F1577264197058.html" target="\_blank" rel="nofollow ugc">SpringCloud Alibaba 微服务实战八 - Seata 整合 Nacos</a> </li>

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