**史上最简单的 SpringCloud 教程 | 第十四篇: 服务注册(consul)**

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这篇文章主要介绍 spring cloud consul 组件，它是一个提供服务发现和配置的工具。consul具有分布式、高可用、高扩展性。

**一、consul 简介**

consul 具有以下性质：

* 服务发现：consul通过http 方式注册服务，并且服务与服务之间相互感应。
* 服务健康监测
* key/value 存储
* 多数据中心

consul可运行在mac windows linux 等机器上。

**二、consul安装**

linux

$ mkdir -p $GOPATH/src/github.com/hashicorp && cd $!

$ git clone https://github.com/hashicorp/consul.git

$ cd consul

$ make bootstrap

$ make bootstrap

windows下安装：   
见[consul怎么在windows下安装](http://blog.csdn.net/forezp/article/details/70188595" \t "_blank)

**三、构建工程**

构建一个consul-miya的springboot工程，导入依赖pring-cloud-starter-consul-discovery，其依赖文件：

<?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">

<modelVersion>4.0.0</modelVersion>

<groupId>com.forezp</groupId>

<artifactId>consul-miya</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>consul-miya</name>

<description>Demo project for Spring Boot</description>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>1.5.2.RELEASE</version>

<relativePath/> <!-- lookup parent from repository -->

</parent>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>

<java.version>1.8</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.cloud</groupId>

<artifactId>spring-cloud-starter-consul-discovery</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

</dependencies>

<dependencyManagement>

<dependencies>

<dependency>

<groupId>org.springframework.cloud</groupId>

<artifactId>spring-cloud-dependencies</artifactId>

<version>Dalston.RELEASE</version>

<type>pom</type>

<scope>import</scope>

</dependency>

</dependencies>

</dependencyManagement>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

在其入口文件ConsulMiyaApplication加入注解@EnableDiscoveryClient，开启服务发现：

@SpringBootApplication

@EnableDiscoveryClient

@RestController

public class ConsulMiyaApplication {

@RequestMapping("/hi")

public String home() {

return "hi ,i'm miya";

}

public static void main(String[] args) {

new SpringApplicationBuilder(ConsulMiyaApplication.class).web(true).run(args);

}

}

在其配置文件application.yml指定consul服务的端口为8500：

spring:

cloud:

consul:

host: localhost

port: 8500

discovery:

healthCheckPath: ${management.contextPath}/health

healthCheckInterval: 15s

instance-id: consul-miya

application:

name: consul-miya

server:

port: 8502

启动工程，访问localhost:8500,可以发现consul-miya被注册了。

源码下载：   
<https://github.com/forezp/SpringCloudLearning/tree/master/chapter14>

**四、参考资料**

[HashiCorp/consul](https://github.com/HashiCorp/consul)

[Spring Cloud Consul](https://github.com/spring-cloud/spring-cloud-consul/blob/master/docs/src/main/asciidoc/spring-cloud-consul.adoc#install-consul)

[consul.io](https://www.consul.io/docs/upgrading.html)

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