

Spring Boot Admin

1. 什么是Spring Boot Admin

Spring Boot Admin 是一个社区的项目用来监控和管理我们的 Spring Boot 应用。应用注册可以通过 Spring Boot Admin Client (Http) 或者使用 Spring Cloud 注册中心去发现 (例如 Eureka, Consul)。

2. 配置 Spring Boot Admin Server

2.1 配置pom.xml

```
<properties>
    <java.version>1.8</java.version>
    <spring-boot-admin.version>2.1.1</spring-boot-admin.version>
</properties>

<dependencies>
    <!-- 服务端: 带UI界面 -->
    <dependency>
        <groupId>de.codecentric</groupId>
        <artifactId>spring-boot-admin-starter-server</artifactId>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <!-- 邮件提醒 -->
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-mail</artifactId>
    </dependency>

    <!-- 权限配置-->
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-security</artifactId>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

<dependencyManagement>
```

```

<dependencies>
  <dependency>
    <groupId>de.codecentric</groupId>
    <artifactId>spring-boot-admin-dependencies</artifactId>
    <version>${spring-boot-admin.version}</version>
    <type>pom</type>
    <scope>import</scope>
  </dependency>
</dependencies>
</dependencyManagement>

```

2.2 配置启动项

```

package com.rongshu.springbootadminserver;

import de.codecentric.boot.admin.server.config.EnableAdminServer;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

/**
 * 服务端配置
 * @author yuyang.zhang
 * @date 2019/1/1
 */
@SpringBootApplication
@EnableAdminServer
public class SpringBootAdminServerApplication {

    public static void main(String[] args) {
        SpringApplication.run(SpringBootAdminServerApplication.class, args);
    }

}

```

添加 `@EnableAdminServer` 启动注解

2.3 安全配置

```

package com.rongshu.springbootadminserver.config;

import de.codecentric.boot.admin.server.config.AdminServerProperties;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
import org.springframework.security.web.authentication.SavedRequestAwareAuthenticationSuccessHandler;
import org.springframework.security.web.csrf.CookieCsrfTokenRepository;

```

```

/**
 * 安全权限配置
 *
 * @author <p>yuyang.zhang<p>
 * @date 2018-12-01 13:50
 * @since 1.0
 */
@Configuration
public class SecuritySecureConfig extends WebSecurityConfigurerAdapter {

    private final String adminContextPath;

    public SecuritySecureConfig(AdminServerProperties adminServerProperties) {
        this.adminContextPath = adminServerProperties.getContextPath();
    }

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        // @formatter:off
        SavedRequestAwareAuthenticationSuccessHandler successHandler = new
SavedRequestAwareAuthenticationSuccessHandler();
        successHandler.setTargetUrlParameter("redirectTo");
        successHandler.setDefaultTargetUrl(adminContextPath + "/");

        http.authorizeRequests()
            // 授予公共访问所有静态资产和登录页面
            .antMatchers(adminContextPath + "/assets/**").permitAll()
            .antMatchers(adminContextPath + "/login").permitAll()
            // 其他必须经过身份验证的请求
            .anyRequest().authenticated()
            .and()
            // 配置登录和注销
            .formLogin().loginPage(adminContextPath +
"/login").successHandler(successHandler).and()
            .logout().logoutUrl(adminContextPath + "/logout").and()
            // 使http基本支持。这是spring的引导管理客户机所需的登记
            .httpBasic().and()
            // 使csrf保护使用cookie
            .csrf()
            // 禁用CSRF-Protection端点弹簧引导管理客户机使用登记
            .csrfTokenRepository(CookieCsrfTokenRepository.withHttpOnlyFalse())
            // 禁用CSRF-Protection致动器的端点
            .ignoringAntMatchers(
                adminContextPath + "/instances",
                adminContextPath + "/actuator/**"
            )
            // @formatter:on
        }
    }
}

```

2.4 配置application.properties

```

# 配置启动端口
server.port=8080

# 邮件配置
spring.mail.host = smtp.163.com
spring.mail.username=m17612184394@163.com
spring.mail.password=pwd

# admin 发送配置
spring.boot.admin.notify.mail.from=m17612184394@163.com
spring.boot.admin.notify.mail.to=2544267857@qq.com

# security用户名密码
spring.security.user.name=admin
spring.security.user.password=123456

```

2.4 自定义提醒

```

package com.rongshu.springbootadminserver.config;

import de.codecentric.boot.admin.server.domain.entities.Instance;
import de.codecentric.boot.admin.server.domain.entities.InstanceRepository;
import de.codecentric.boot.admin.server.domain.events.InstanceEvent;
import de.codecentric.boot.admin.server.domain.events.InstanceStatusChangedEvent;
import de.codecentric.boot.admin.server.notify.AbstractEventNotifier;
import de.codecentric.boot.admin.server.notify.LoggingNotifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import reactor.core.publisher.Mono;

/**
 * 自定义Notifier
 * @author <p>yuyang.zhang<p>
 * @date 2019-01-03 18:39
 * @since 1.0
 */
public class CustomNotifier extends AbstractEventNotifier {

    private static final Logger LOGGER =
        LoggerFactory.getLogger(LoggingNotifier.class);

    public CustomNotifier(InstanceRepository repository) {
        super(repository);
    }

    @Override
    protected Mono<Void> doNotify(InstanceEvent event, Instance instance) {
        return Mono.fromRunnable(() -> {
            if (event instanceof InstanceStatusChangedEvent) {
                LOGGER.info("Instance {} ({{}}) is {}",
                    instance.getRegistration().getName(), event.getInstance(),

```

```

        ((InstanceStatusChangedEvent)
event).getStatusInfo().getStatus());
    } else {
        LOGGER.info("Instance {} ({{}} {{}}",
instance.getRegistration().getName(), event.getInstance(),
        event.getType());
    }
});
}
}
}

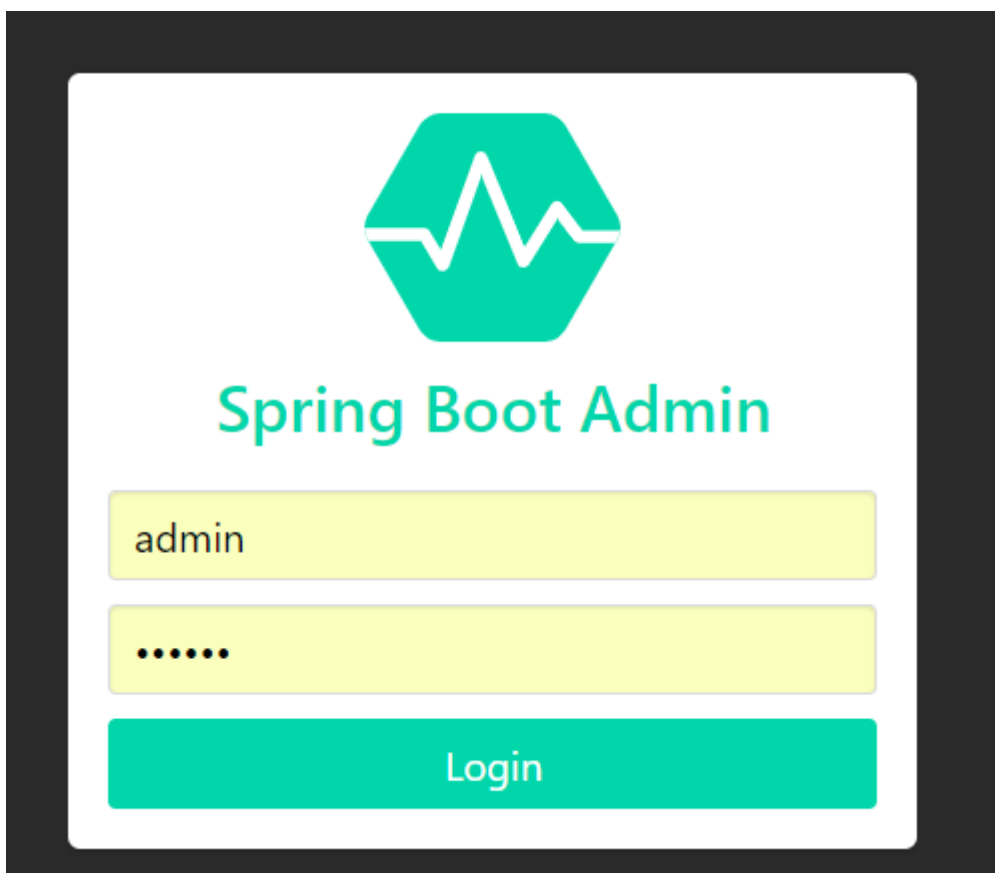
```

在#doNotify() 可以实现自己的逻辑。

2.5 启动项目

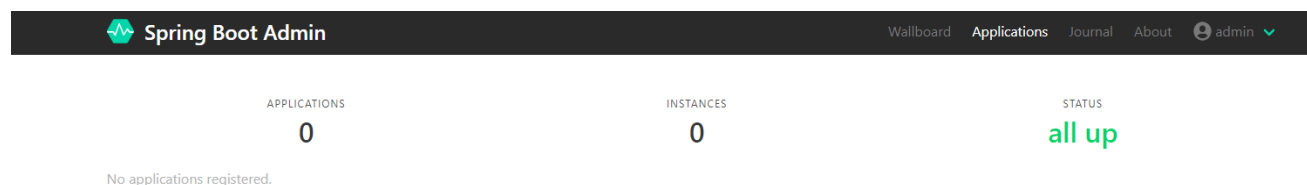
2.5.1 登录界面

<http://localhost:8080/>



输入 `application.properties` 配置的账号和密码

2.5.2 主页



3. 注册 Client Applications

3.1 Spring Boot Admin Client

使用 `Spring Boot Admin Client` 进行注册

3.1.1 配置pom.xml

```
<properties>
  <java.version>1.8</java.version>
  <spring-boot-admin.version>2.1.1</spring-boot-admin.version>
</properties>

<dependencies>
  <dependency>
    <groupId>de.codecentric</groupId>
    <artifactId>spring-boot-admin-starter-client</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-security</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>

  <!-- JMX management -->
  <dependency>
    <groupId>org.jolokia</groupId>
    <artifactId>jolokia-core</artifactId>
  </dependency>
</dependencies>

<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>de.codecentric</groupId>
      <artifactId>spring-boot-admin-dependencies</artifactId>
      <version>${spring-boot-admin.version}</version>
    </dependency>
  </dependencies>
</dependencyManagement>
```

```
        <type>pom</type>
        <scope>import</scope>
    </dependency>
</dependencies>
</dependencyManagement>
```

3.1.2 安全配置

```
package com.rongshu.springbootadminclient.config;

import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerA
dapter;

/**
 * 安全权限配置
 * @author <p>yuyang.zhang<p>
 * @date 2018-12-01 13:50
 * @since 1.0
 */
@Configuration
public class SecurityPermitAllConfig extends WebSecurityConfigurerAdapter {
    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.authorizeRequests()
            .anyRequest()
            .permitAll()
            .and()
            .csrf()
            .disable();
    }
}
```

3.1.3 配置application.properties

```
# 配置端口号
server.port=8081

# 客户端注册地址
spring.boot.admin.client.url=http://localhost:8080

# ip 地址,默认使用主机名
spring.boot.admin.client.instance.prefer-ip=true

# 配置用户名和密码
spring.boot.admin.client.username=admin
spring.boot.admin.client.password=123456

# 端点暴露,这个很重要,必须要
management.endpoints.web.exposure.include=*
```

日志配置

```
logging.file=/var/log/sample-boot-application.log
logging.pattern.file=%clr(%d{yyyy-MM-dd HH:mm:ss.SSS}){faint} %clr(%5p) %clr(${PID})
{magenta} %clr(---){faint} %clr([%15.15t]){faint} %clr(%-40.40logger{39}){cyan} %clr(:)
{faint} %m%n%wEx
```

tags

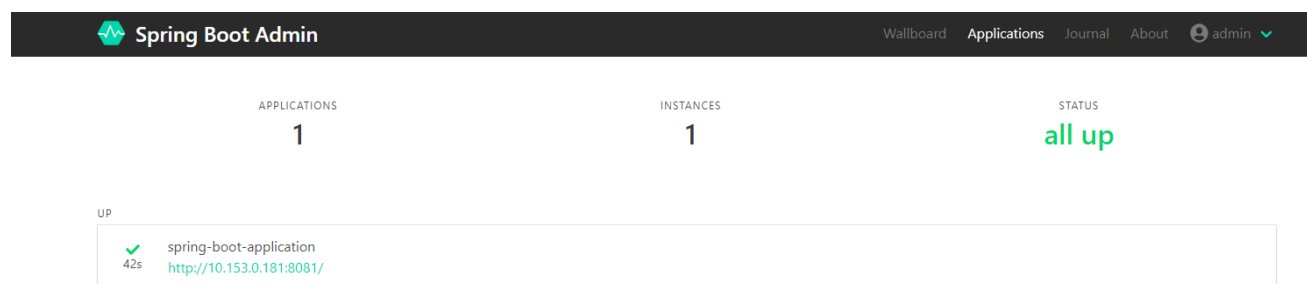
#using the metadata

```
spring.boot.admin.client.instance.metadata.tags.environment=test
```

#using the info endpoint

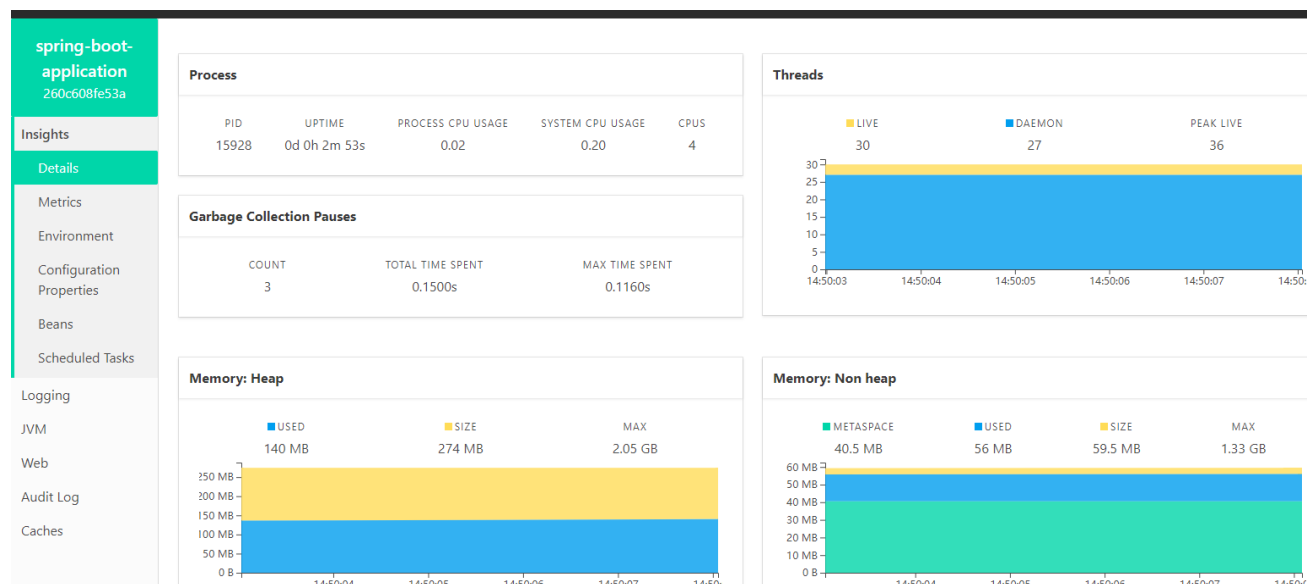
```
info.tags.environment=test
```

3.1.4 启动项目



Server 端 登录页面已经发生改变, 有一个应用已经成功注册。

• 主页展示



• 日志展示

spring-boot-application
260c608fe53a

Insights

Logging

Logfile

Loggers

JVM

Web

Audit Log

Caches

2019-01-08 14:47:20.539 INFO 19928 --- [main] o.r.s.SpringBootAdminClientApplication : Starting SpringBootAdminClientApplication on DESKTOP-HQF53T4 with PID 19928

ring-boot-admin-demo/spring-boot-admin-client/target/classes started by zhangyuyang in D:\study\code\spring-boot-admin-demo)

2019-01-08 14:47:20.545 INFO 19928 --- [main] o.r.s.SpringBootAdminClientApplication : No active profile set, falling back to default profiles: default

2019-01-08 14:47:23.250 INFO 19928 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8081 (http)

2019-01-08 14:47:23.277 INFO 19928 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]

2019-01-08 14:47:23.277 INFO 19928 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13

2019-01-08 14:47:23.285 INFO 19928 --- [main] o.a.catalina.core.AplifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in production environments was not found on the java.library.path: [C:\software\jdk\jdk1.8.0_131\bin;C:\WINDOWS\Sun\Java\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\WINDOWS\System32\WindowsPowerShell\v1.0;C:\software\jdk\jdk1.8.0_131\bin;C:\software\apache-maven-3.5.4\bin;C:\software\TortoiseGit\bin;C:\software\TortoiseSVN\bin;C:\WINDOWS\System32\OpenSSH\;C:\Program Files\Node.js\C\software\Git\bin;C:\software\curl-7.62.0-win64-mingw\bin;%IDEA_HOME%\bin;C:\Users\zhangyuyang\AppData\Local\Microsoft\WindowsApps;C:\Users\zhangyuyang\AppData\Local\Microsoft\WindowsApps\...]

2019-01-08 14:47:23.443 INFO 19928 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext

2019-01-08 14:47:23.443 INFO 19928 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 2390 ms

2019-01-08 14:47:23.872 INFO 19928 --- [main] o.s.b.a.e.web.servlet.EndpointRegistrar : Registered '/actuator/jolokia' to jolokia-actuator-endpoint

2019-01-08 14:47:24.212 INFO 19928 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'

2019-01-08 14:47:24.678 INFO 19928 --- [main] o.s.s.c.ThreadPoolTaskScheduler : Initializing ExecutorService

2019-01-08 14:47:24.897 INFO 19928 --- [main] .s.s.UserDetailsServiceAutoConfiguration :

Using generated security password: 2670a50-269a-47f4-9e46-9083a958d4

2019-01-08 14:47:25.011 INFO 19928 --- [main] o.s.b.w.DefaultSecurityFilterChain : Creating filter chain: any request, [org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter@21230044, org.springframework.security.web.context.SecurityContextPersistenceFilter@5aa4a460, org.springframework.security.web.header.HeaderWriterFilter@60c7b0e0, org.springframework.security.web.authentication.logout.LogoutFilter@2b34e38c, org.springframework.security.web.savedrequest.RequestCacheAwareFilter@9ef7a03, org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter@b5d2d31, org.springframework.security.web.authentication.AnonymousAuthenticationFilter@4b6587e, org.springframework.security.web.session.SessionManagementFilter@158f44e, org.springframework.security.web.access.ExceptionTranslationFilter@9874e993, org.springframework.security.web.access.intercept.FilterSecurityInterceptor@9e5522c2]

2019-01-08 14:47:25.011 INFO 19928 --- [main] o.s.b.w.DefaultSecurityFilterChain : Creating filter chain: any request, [org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter@21230044, org.springframework.security.web.context.SecurityContextPersistenceFilter@5aa4a460, org.springframework.security.web.header.HeaderWriterFilter@60c7b0e0, org.springframework.security.web.authentication.logout.LogoutFilter@2b34e38c, org.springframework.security.web.savedrequest.RequestCacheAwareFilter@9ef7a03, org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter@b5d2d31, org.springframework.security.web.authentication.AnonymousAuthenticationFilter@4b6587e, org.springframework.security.web.session.SessionManagementFilter@158f44e, org.springframework.security.web.access.ExceptionTranslationFilter@9874e993, org.springframework.security.web.access.intercept.FilterSecurityInterceptor@9e5522c2]

2019-01-08 14:47:25.188 INFO 19928 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 17 endpoint(s) beneath base path '/actuator'

2019-01-08 14:47:25.188 INFO 19928 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8081 (http) with context path ''

2019-01-08 14:47:25.195 INFO 19928 --- [main] o.r.s.SpringBootAdminClientApplication : Started SpringBootAdminClientApplication in 5.766 seconds (JVM running for 9.265)

2019-01-08 14:47:25.782 INFO 19928 --- [on(2)-127.0.0.1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'

2019-01-08 14:47:25.782 INFO 19928 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'

2019-01-08 14:47:25.797 INFO 19928 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Completed initialization in 14 ms

2019-01-08 14:47:26.350 INFO 19928 --- [gistrationTask1] d.c.b.a.c.s.ApplicationRegistrar : Application registered itself as 260c608fe53a



日志和数据都是实时监控,动态改变的。

3.2 Spring Cloud Discovery

3.2.1 Eureka Server端

3.2.1.1 配置pom.xml

```
<parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.0.7.RELEASE</version>
    <relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>com.rongshu</groupId>
<artifactId>spring-boot-eureka-server</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>spring-boot-eureka-server</name>
<description>Demo project for Spring Boot</description>

<properties>
    <java.version>1.8</java.version>
    <spring-cloud.version>Finchley.SR2</spring-cloud.version>
</properties>

<dependencies>
    <dependency>
        <groupId>org.springframework.cloud</groupId>
        <artifactId>spring-cloud-starter-netflix-eureka-server</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>${spring-cloud.version}</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>

```

3.2.1.2 配置启动注解

```

/**
 * Eureka 服务端启动类，添加{@link EnableEurekaServer}注解,启动服务
 * @author yuyang.zhang
 * @date 2019/1/9
 */
@EnableEurekaServer
@SpringBootApplication
public class SpringBootEurekaServerApplication {

    public static void main(String[] args) {
        SpringApplication.run(SpringBootEurekaServerApplication.class, args);
    }

}

```

3.2.1.3 配置 application.properties

```

# 应用名称
spring.application.name=eureka-server
# 端口
server.port=1001
# 主机名
eureka.instance.hostname=localhost
# 取消eureka自我注册功能
eureka.client.register-with-eureka=false
# 不需要检索服务
eureka.client.fetch-registry=false

```

3.2.1.4 启动项目

The screenshot shows the Spring Eureka web interface. The top navigation bar includes the Spring Eureka logo and links for HOME and LAST 1000 SINCE STARTUP. The main content area is divided into three sections:

- System Status:** A table showing environment details.

System Status	
Environment	test
Data center	default
- DS Replicas:** A section titled "Instances currently registered with Eureka". Below this is a table with columns: Application, AMIs, Availability Zones, and Status. The table is currently empty, showing "No instances available".
- General Info:** A section for general information.

3.2.2 Eureka Client端

3.2.2.1 配置pom.xml

```
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>2.0.7.RELEASE</version>
  <relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>spring-boot-eureka-client</groupId>
<artifactId>demo</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>demo</name>
<description>Demo project for Spring Boot</description>

<properties>
  <java.version>1.8</java.version>
  <spring-cloud.version>Finchley.SR2</spring-cloud.version>
</properties>

<dependencies>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
```

```

</dependency>

<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-actuator</artifactId>
</dependency>

<!-- JMX management -->
<dependency>
    <groupId>org.jolokia</groupId>
    <artifactId>jolokia-core</artifactId>
</dependency>
</dependencies>

<dependencyManagement>
    <dependencies>
        <dependency>
            <groupId>org.springframework.cloud</groupId>
            <artifactId>spring-cloud-dependencies</artifactId>
            <version>${spring-cloud.version}</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>

```

3.2.2.2 配置启动注解

```

/**
 * Eureka客户端启动类，配置{@link EnableDiscoveryClient}启动客户端
 * @author yuyang.zhang
 * @date 2019/1/9
 */
@EnableDiscoveryClient
@SpringBootApplication
public class DemoApplication {

    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }

}

```

3.2.2.3 配置application.properties

```
# 应用名称
spring.application.name=eureka-client
# 客户端端口
server.port=2001
# 注册地址
eureka.client.serviceUrl.defaultZone=http://localhost:1001/eureka/

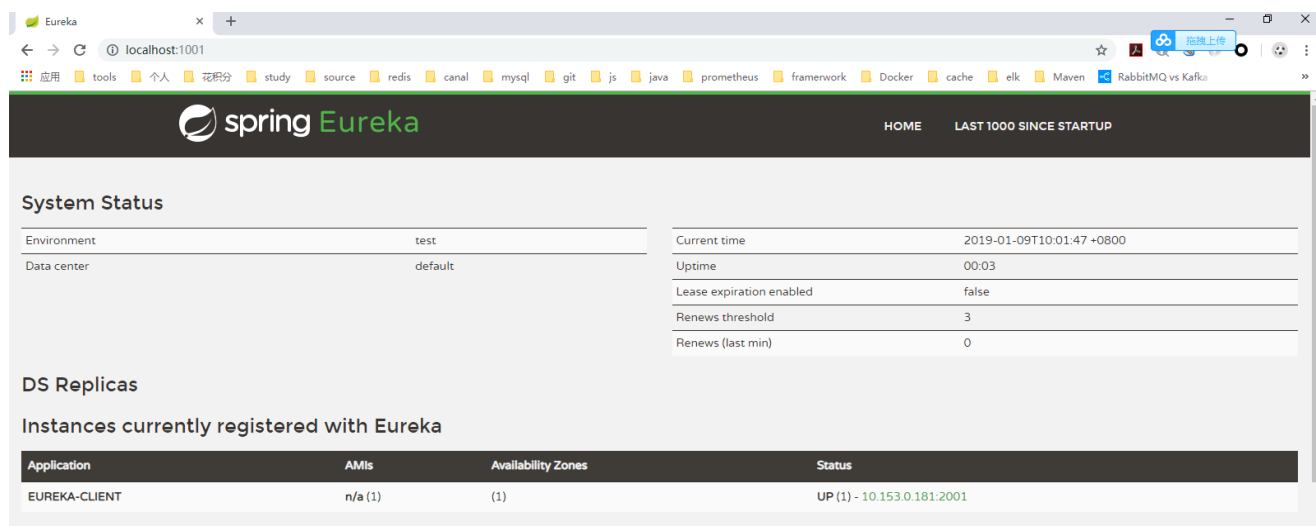
#表示将ip注册到Eureka server
eureka.instance.prefer-ip-address=true

# 将Instance ID设置成IP:端口的形式
eureka.instance.instance-id=${spring.cloud.client.ip-address}:${server.port}

# 端点暴露,这个很重要,必须要
management.endpoints.web.exposure.include=*
```

在SpringBoot2.0 之后,不支持驼峰命名的方式 `spring.cloud.client.ip-address` 一定要这么写。

3.2.2.4 启动项目



The screenshot shows the Spring Eureka web interface in a browser. The address bar shows 'localhost:1001'. The page has a dark header with the 'spring Eureka' logo and navigation links 'HOME' and 'LAST 1000 SINCE STARTUP'. The main content area is divided into two sections: 'System Status' and 'DS Replicas'. The 'System Status' section contains two tables. The first table shows 'Environment: test' and 'Data center: default'. The second table shows system metrics: 'Current time: 2019-01-09T10:01:47 +0800', 'Uptime: 00:03', 'Lease expiration enabled: false', 'Renews threshold: 3', and 'Renews (last min): 0'. The 'DS Replicas' section is titled 'Instances currently registered with Eureka' and contains a table with one entry: 'EUREKA-CLIENT' with 'AMIs: n/a (1)', 'Availability Zones: (1)', and 'Status: UP (1) - 10.153.0.181:2001'.

System Status	
Environment	test
Data center	default

System Metrics	
Current time	2019-01-09T10:01:47 +0800
Uptime	00:03
Lease expiration enabled	false
Renews threshold	3
Renews (last min)	0

Application	AMIs	Availability Zones	Status
EUREKA-CLIENT	n/a (1)	(1)	UP (1) - 10.153.0.181:2001

查看Eureka发现有Eureka客户端注册上去了

3.2.3 Spring Boot Admin Server 端

3.2.3.1 配置pom.xml

```
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>2.0.7.RELEASE</version>
  <relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>com.rongshu</groupId>
<artifactId>spring-boot-admin-server</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>spring-boot-admin-server</name>
```

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

<properties>
  <java.version>1.8</java.version>
  <spring-boot-admin.version>2.0.4</spring-boot-admin.version>
  <spring-cloud.version>Finchley.SR2</spring-cloud.version>
</properties>

<dependencies>
  <!-- 服务端: 带UI界面 -->
  <dependency>
    <groupId>de.codecentric</groupId>
    <artifactId>spring-boot-admin-starter-server</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>

  <!-- 邮件提醒 -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-mail</artifactId>
  </dependency>

  <!-- 权限配置-->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-security</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
  </dependency>
</dependencies>

<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>de.codecentric</groupId>
      <artifactId>spring-boot-admin-dependencies</artifactId>
      <version>${spring-boot-admin.version}</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
  </dependencies>
</dependencyManagement>
```

```

        <dependency>
            <groupId>org.springframework.cloud</groupId>
            <artifactId>spring-cloud-dependencies</artifactId>
            <version>${spring-cloud.version}</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>

```

3.2.3.2 配置启动注解

```

/**
 * 服务端配置
 * @author yuyang.zhang
 * @date 2019/1/1
 */
@SpringBootApplication
@EnableAdminServer
@EnableDiscoveryClient
public class SpringBootAdminServerApplication {

    public static void main(String[] args) {
        SpringApplication.run(SpringBootAdminServerApplication.class, args);
    }

}

```

3.2.3.3 配置application.properties

```

# 配置启动端口
server.port=8080

# 邮件配置
spring.mail.host = smtp.163.com
spring.mail.username=m17612184394@163.com
spring.mail.password=Zyy15922313068

# admin 发送配置
spring.boot.admin.notify.mail.from=m17612184394@163.com
spring.boot.admin.notify.mail.to=2544267857@qq.com

```

```
# security用户名密码
spring.security.user.name=admin
spring.security.user.password=123456

# 应用名称
spring.application.name=spring-admin-server
# eureka注册地址
eureka.client.serviceUrl.defaultZone=http://localhost:1001/eureka/
# 将Instance ID设置成IP:端口的形式
eureka.instance.instance-id=${spring.cloud.client.ip-address}:${server.port}
#表示将ip注册到Eureka server
eureka.instance.prefer-ip-address=true
```

3.2.3.4 启动项目

<http://localhost:1001/>

应用tools个人花粉分studysourcerediscanalmysqgitjsjavaprometheusframeworkDockercachelkMavenRabbitMQ vs Kafka

spring Eureka

HOME LAST 1000 SINCE STARTUP

System Status

Environment	test	Current time	2019-01-09T10:12:19 +0800
Data center	default	Uptime	00:14
		Lease expiration enabled	false
		Renews threshold	6
		Renews (last min)	4

EMERGENCY! EUREKA MAY BE INCORRECTLY CLAIMING INSTANCES ARE UP WHEN THEY'RE NOT. RENEWALS ARE LESSER THAN THRESHOLD AND HENCE THE INSTANCES ARE NOT BEING EXPIRED JUST TO BE SAFE.

DS Replicas

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
EUREKA-CLIENT	n/a (1)	(1)	UP (1) - 10.153.0.181:2001
SPRING-ADMIN-SERVER	n/a (1)	(1)	UP (1) - 10.153.0.181:8080

<http://localhost:8080/login>

Spring Boot Admin

Wallboard Applications1JournalAboutadmin

APPLICATIONS2INSTANCES2INSTANCES DOWN1

DOWN

4m

SPRING-ADMIN-SERVER

<http://10.153.0.181:8080/>

UP

4m

EUREKA-CLIENT

<http://10.153.0.181:2001/>

登录后发现Eureka的客户端实例,已经可以被springBootAdmin监控了。

参考资料

<https://codecentric.github.io/spring-boot-admin/2.0.4/>

<https://docs.spring.io/spring-boot/docs/2.0.7.RELEASE/reference/htmlsingle/>

<http://blog.didispace.com/spring-cloud-starter-dalston-1/>