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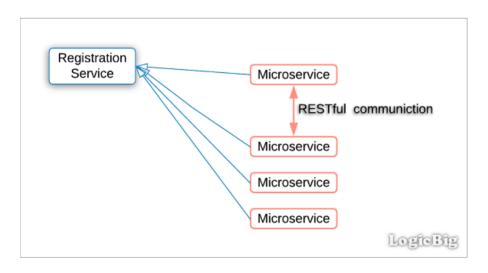
Spring Cloud - Getting Started Example

[Last Updated: Jun 20, 2020]

Following is a quick-start example of Spring Cloud. We are going to develop very simple microservices using Spring Cloud, Spring Boot and Eureka Server.

In microservice architecture, an application is composed of loosely coupled small services as opposed to a single monolithic application.

In microservice architecture a <u>registry service</u> is used to register the microservices so that they can be discovered.





Next Page

Example

In this example we are going to use <u>Eureka Server</u> as the service registry. Eureka is developed by Netflix; it is open source. Spring has integrated Eureka into dedicated Spring Cloud modules to make it easier to use it.

We are going to develop two microservices:

First is 'hello-service' which will just return a hello message.

Second service 'hello-web-client-service' will handle the request coming from a client. On receiving a request it will call 'hello-service' and will return a web page in response.

There will be three separate servers; one for Eureka and two of microservices. Also there will be three separate maven projects.

Eureka Server

Maven dependencies

pom.xml

```
ct ....>
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.logicbig.example
   <artifactId>hello-eureka-server</artifactId>
   <version>1.0-SNAPSHOT
   <parent>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-parent</artifactId>
       <version>2.0.4.RELEASE
   </parent>
   properties>
       <java.version>1.8</java.version>
   </properties>
   <dependencies>
       <dependency>
          <groupId>org.springframework.cloud
          <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
       </dependency>
```

Configuration

src/main/resources/application.yml

```
server:
  port: 7777
eureka:
  instance:
   hostname: localhost
  client:
   registerWithEureka: false
  fetchRegistry: false
```

In above configuration, the properties <u>eureka.client.*</u> are related to the service clients who want to register with Eureka.

The property <u>eureka.client.register-with-eureka=false</u> specifies that this server should not be registered to the service client itself.

The property <u>eureka.client.fetch-registry=false</u> specifies that the server should not fetch the registered information to itself.

Main class

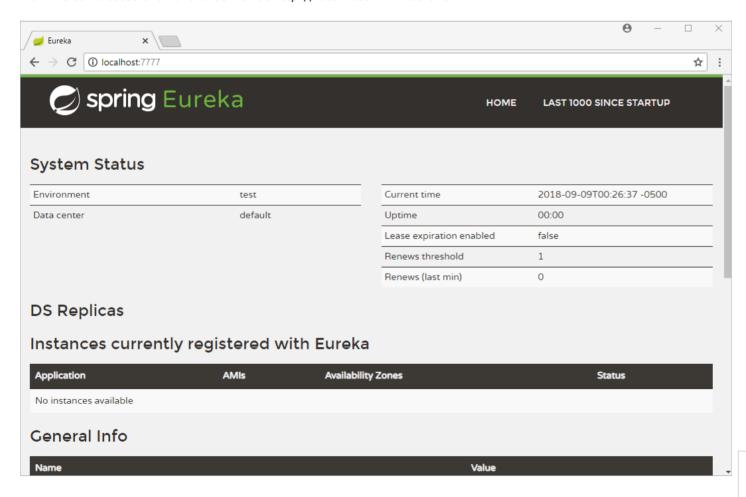
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```
@SpringBootApplication
@EnableEurekaServer
public class HelloEurekaServerMain {
   public static void main(String[] args) {
        SpringApplication.run(HelloEurekaServerMain.class, args);
   }
}
```

Run above main class from your IDE. That will start the Eureka Server.

Now we can access the Eureka server at http://localhost:7777 as shown:



SonarCloud

hello-service

Maven dependencies

pom.xml

```
project ....>
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.logicbig.example
   <artifactId>hello-service</artifactId>
   <version>1.0-SNAPSHOT
   <parent>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-parent</artifactId>
       <version>2.0.4.RELEASE
   </parent>
   properties>
       <java.version>1.8</java.version>
   </properties>
   <dependencies>
       <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-web</artifactId>
       </dependency>
       <dependency>
           <groupId>org.springframework.cloud
           <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
```







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Domain object

```
public class HelloObject {
    private String message;

public String getMessage() {
        return message;
    }

public void setMessage(String message) {
        this.message = message;
    }
}
```

A Rest Controller

```
@RestController
public class HelloController {
   private AtomicLong counter = new AtomicLong();
     @GetMapping("/hello")
```

```
Python - Built In Data Structures
Python None Type
Python Boolean
Python Keywords
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Pvthon Numbers
Python Variables
Python Comments
Python Basic Syntax
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Spring Core Validation
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validators for the same constraint
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Annotation
Spring - The Use Of PropertyEditors With XML
Configuration
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based method signatures
Spring - Copying properties using BeanUtils
Spring - Obtaining BeanInfo And
PropertyDescriptors
Spring - Directly setting fields via
DirectFieldAccess
Spring - BeanWrapper, setting nested beans
Spring - Using BeanWrapper
Spring - Transforming events
```

```
public HelloObject getHelloWordObject() {
    HelloObject hello = new HelloObject();
    hello.setMessage("Hi there! you are number " + counter.incrementAndGet());
    return hello;
}
```

src/main/resources/application.properties

```
eureka.client.serviceUrl.defaultZone=http://localhost:7777/eureka/
```

src/main/resources/bootstrap.properties

```
spring.application.name=hello-service
```

The bootstrap.properties file corresponds to bootstrap context (the parent context of the main application) which uses a different convention for locating external configuration than the main application context. Instead of application.yml (or .properties), we can use bootstrap.yml, keeping the external configuration for bootstrap and main context nicely separate.

Boot main class

Run above main class from your IDE.

On refreshing Eureka page you should see HELLO-SERVICE instance listed in the registry:

Spring - Conditional Event Handling via @EventListener annotation

Spring - Using @EventListener annotation with multiple event types

Spring - Publishing and Consuming Custom Events

Java - Introduction to ResourceBundle

Spring - Injecting Resource using @Value annotation

Spring - Injecting ResourceLoader

Spring - Resource Loading

Spring - Using Spring Expression Language with @Value Annotation

Spring - Using @Value Annotation

Spring - Injecting Environment to access properties in beans

Spring - Adding New Property Source to Environment

Spring - Adding user properties by using @PropertySource

Spring - Accessing Environment Properties

Spring - Profiles

Spring - Successfully injecting circular dependencies using @Lazy Annotation

Spring - Successfully injecting circular dependencies using setter injection

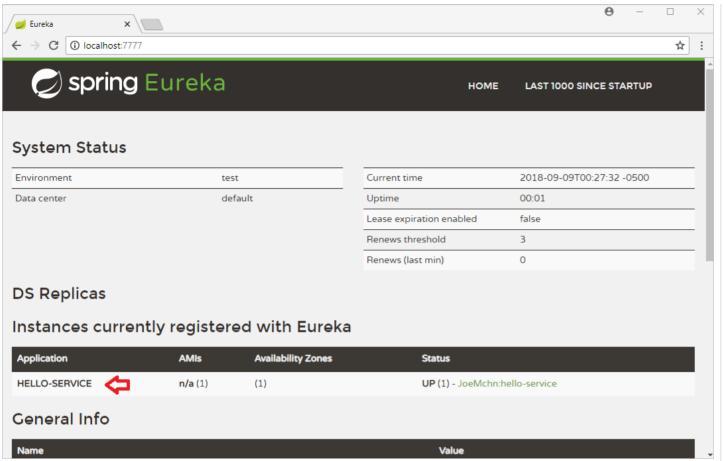
Java 16 - Records Features, Quick Walk-through

Java 16 - Introduction to Records

Spring - Injecting beans into Arrays/Collections, Using @Qualifiers And Specifying the Ordering

Injecting Collections - Injecting Beans Into Arrays And Collections, ordering with Ordered Interface

Spring - Injecting beans Into Arrays and Lists, ordering with @Ordered annotation



hello-web-client-service

pom.xml

Spring - Injecting beans into Arrays and Collections, selecting elements with @Qualifier annotation

Spring - Injecting multiple Beans Into Arrays and Collections

Spring - Arrays and Collections As Beans

Spring - Using @ComponentScan#excludeFilters to exclude classes from scanning based on annotations

Spring - Using @ComponentScan#includeFilters to scan non component classes based on annotations

Spring - Implementing ApplicationContextAware Interface

Spring - Using excludeFilters attribute of @ComponentScan to exclude component classes

Spring - Using @ComponentScan to scan non component classes via includeFilters attribute

Spring - Using Filters To Customize Scanning with @ComponentScan

Spring - Using basePackageClasses Attribute of @ComponentScan

Spring - Specifying packages to be scanned with basePackages attribute of @ComponentScan

JUnit - How to test user command line Input in Java?

Spring - Session based Prototype Bean Example

Spring - Prototype Bean Example

Spring - Singleton Bean Example

Spring - Receiving lifecycle callbacks by implementing InitializingBean and DisposableBean

Spring - Receiving lifecycle callbacks by using 'initMethod' and 'destroyMethod' of @Bean annotation

Spring - Implicit Constructor Injection In @Configuration Class

```
<version>2.0.4.RELEASE
   </parent>
   properties>
       <java.version>1.8</java.version>
   </properties>
   <dependencies>
       <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-web</artifactId>
       </dependency>
       <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-thymeleaf</artifactId>
       </dependency>
       <dependency>
           <groupId>org.springframework.cloud
           <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
       </dependency>
   </dependencies>
   <dependencyManagement>
       <dependencies>
           <dependency>
               <groupId>org.springframework.cloud
               <artifactId>spring-cloud-dependencies</artifactId>
               <version>Finchley.SR1
               <type>pom</type>
               <scope>import</scope>
           </dependency>
       </dependencies>
   </dependencyManagement>
</project>
```

A Spring MVC Controller

Spring - Using @Autowired annotation on arbitrary methods

Spring - Using @Inject annotation on setter methods

Spring Core - Using @Autowire annotation On a setter method

Spring - Defining Injection point by using @Inject annotation

Spring - Defining injection point by using @Autowire annotation

Spring - Resolving ambiguity by using @Inject and @Named annotations

Spring - Resolving ambiguity by using @Inject and @Qualifier Annotations

Spring - Autowiring By Name, Using Autowire.BY NAME

Spring - Autowiring By Type mode, Using Autowire.BY TYPE

Spring - Default Auto-wiring mode, Autowire.NO Example

Elements of @Bean Annotation

Spring - Using Multiple @Configuration Classes

Spring - Dependency Injection In @Configuration Classes

Reactor - Programmatically generate Flux via Consumer<SynchronousSink<T>>

Spring Boot - Testing With @SpyBean

Mockito - Creating Spy Of Real Objects

Reactor - Creating Flux Instance From Iterable

Reactor - Create Flux Instance From Array

Reactor - Creating Flux Instance Which Emits Range Of Integer

Reactor - Creating Flux and Mono with empty()

Java - Find Files in classpath under a Folder And SubFolder

Java - How to find enum by ordinal?

```
@Controller
public class HelloWebClientController {
  @Autowired
 private DiscoveryClient discoveryClient;
  @GetMapping("/")
 public String handleRequest(Model model) {
      //accessing hello-service
      List<ServiceInstance> instances = discoveryClient.getInstances("hello-service");
      if (instances != null && instances.size() > 0) {//todo: replace with a load balancing mechanism
          ServiceInstance = instances.get(0);
          String url = serviceInstance.getUri().toString();
          url = url + "/hello";
          RestTemplate restTemplate = new RestTemplate();
          HelloObject helloObject = restTemplate.getForObject(url,
                  HelloObject.class);
          model.addAttribute("msg", helloObject.getMessage());
          model.addAttribute("time", LocalDateTime.now());
      return "hello-page";
```

src/main/resources/templates/hello-page.html

```
Java 15 - Sealed Classes (preview)
```

Spring Boot Primefaces Integration

Spring Boot JSF Integration

Reactor - Creating an instance using Flux.just()
Mono.just()

Spring Boot - Testing With @MockBean

Java - How to delete old files under a folder if number of files are over a specified limit?

Mockito - BDD Style Verification using then() - should()

Mockito - BDD Style Stubbing with given() - willReturn()

Cassandra - Mapping Java Objects using Mapper

Java - How to convert Calendar to LocalDateTime?

Mockito - verifyNoMoreInteractions() and verifyNoInteractions()

Mockito - Verifying Multiple Number of Method Invocations

Mockito - Verify Method Calls With Argument Matchers

Kafka - ConsumerRebalanceListener Example

Kafka - Understanding Partition Rebalancing

Kafka Manual Commit - commitSync() Example

Kafka Manual Commit - CommitAsync With Callback and Specified Offset

Kafka Manual Commit - commitAsync With Callback Example

Java - Introduction to Java 8 Date and Time API

Reactor - Understanding Flux/Mono's retryWhen()

Reactor - Retrying Flux/Mono Sequence

Spring - Injecting Prototype Bean Using Java 8 Functions

Mockito - Argument Matchers Example

Mockito - Argument Matchers

src/main/resources/application.properties

```
server.port=9080
eureka.client.serviceUrl.defaultZone=http://localhost:7777/eureka/
```

src/main/resources/bootstrap.properties

```
spring.application.name=hello-service
```

Boot main class

Run above class from your IDE.

Refresh Eureka web page again:

Kafka Manual Commit - CommitAsync() Example

Java - How to Indent multiline String?

Mockito - Verifying Method Calls

Spring MVC - Post Request With Simple Form Submission

Java - Parsing String To Numeric Primitives

Mockito - Stubbing methods with exceptions

Java - Avoiding possible NullPointerException with method call chain

Java - Autoboxing And Unboxing, How to avoid NullPointerException with unboxing?

Kafka - Auto Committing Offsets

Kafka - Understanding Offset Commits

Kafka - Publishing records With null keys and no assigned partitions

Java Collections - How to find frequency of each element in a collection?

How to convert java.util.Map To Java Bean?

Java - How to repeat a string n number of times?

Git - Merging Branches

Java - How to convert Iterator To List?

Spring Boot - Unit Testing Application Arguments

How to find the longest and the shortest String in Java?

How to find first and last element of Java 8 stream?

Mockito - Stubbing consecutive method calls

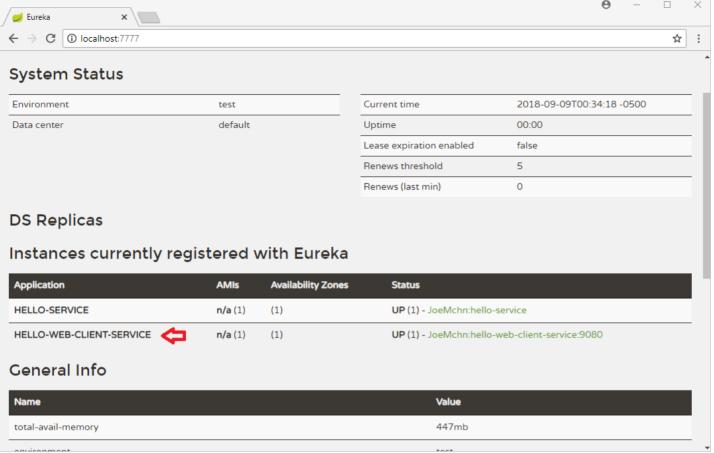
Mockito - Stubbing a method's return Value

Kafka - Using Keys For Partition Assignment

Spring Boot - Using @TestConfiguration In static nested class

Spring Boot - Using @TestConfiguration to define beans for tests

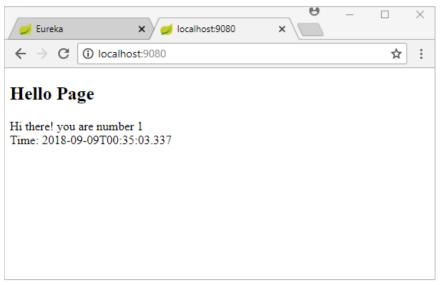
Java Collections - Why Arrays.asList() does not work for primitive arrays?



Final output

Now make request to 'hello-web-client-service' by entering localhost:9080 in web-browser:

Java Collections - Only put Map key/value if the specified key does not exist Getting Started with Mockito How to connect a Database server in Intellij Community Edition? Java HashMap - Understanding equals() and hashCode() methods Java IO - How to write lines To a file and read lines from a files? Java Collections - How to find distinct elements count in collections and arrays? Spring Boot - Web Application Testing With Embedded Server And TestRestTemplate Java - How to find Available Runtime Memory? Kafka - Understanding Consumer Group with Spring Boot - Unit Testing Web Application With **Embedded Server** Java - Different ways to Set Nested Field Value By Reflection Java - Different ways to Set Field Value by Reflection Installing Python 2.7 on windows Installing Cassandra And Intro To CQLSH Cassandra - Getting Started with Java Java 14 - Switch Expressions And Statements Examples Kafka - Manually Assign Partition To A Consumer Kafka - Understanding Topic Partitions Spring Boot - Unit Testing Web Application With Mock MVC Kafka - Introduction to Kafka Admin API Java 14 - Helpful NullPointerException Java 14 - Pattern Matching for instanceof Spring Boot - Application Unit Testing with @SpringBootTest



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Example Project

Dependencies and Technologies Used:

- Spring Boot 2.0.4.RELEASE
 Corresponding Spring Version 5.0.8.RELEASE
- Spring Cloud Finchley.SR1
- spring-cloud-starter-netflix-eureka-server 2.0.1.RELEASE: Spring Cloud Starter Netflix Eureka Server.
- spring-boot-starter-web : Starter for building web, including RESTful, applications using Spring MVC. Uses Tomcat as the default embedded container.
- spring-cloud-starter-netflix-eureka-client 2.0.1.RELEASE: Spring Cloud Starter Netflix Eureka Client.
- spring-boot-starter-thymeleaf : Starter for building MVC web applications using Thymeleaf views. Uses org.thymeleaf:thymeleaf-spring5 version 3.0.9.RELEASE
- JDK 1.8
- Maven 3.5.4

Installing and Running Kafka Kafka - Getting Started Spring Boot - Different Ways To Pass Application **Properties** Reactor - Transforming into Publishers and Delaying any Error with flatMapDelayError() and flatMapSequentialDelayError() Reactor - Transforming into Publisher and Maintaining the source order with flatMapSequential() Reactor - Transforming into Publishers and then flattening by using flatMap operation Reactor - Using transform Operation Reactor - Mapping items Reactor - Getting Started Java 13 - Text Blocks (JEP 355 - preview) Spring Cloud - Hystrix CircuitBreaker, Thread **Local Context Propagation** Spring Cloud - Circuit Breaker Hystrix Event Listener

```
spring-cloud-getting-started
hello-eureka-server
                             <?xml version="1.0" encoding="UTF-8"?>
                             src
                                     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-
 lmx.moq
                             4.0.0.xsd">
hello-service
                                 <modelVersion>4.0.0</modelVersion>
 src
                                <groupId>com.logicbig.example
 lmx.mog
                                <artifactId>hello-eureka-server</artifactId>
hello-web-client-service
                                <version>1.0-SNAPSHOT
 src
                                <parent>
 lmx.mog
                                    <groupId>org.springframework.boot
                                    <artifactId>spring-boot-starter-parent</artifactId>
                                    <version>2.0.4.RELEASE
                                </parent>
                                properties>
                                    <java.version>1.8</java.version>
                                </properties>
                                <dependencies>
                                    <dependency>
                                        <groupId>org.springframework.cloud
                                        <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
                                    </dependency>
                                 </dependencies>
                                 <dependencyManagement>
                                    <dependencies>
```

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Getting started with Spring Cloud + Microservices

Project Structure

spring-cloud-getting-started
hello-eureka-server
src
pom.xml
hello-service
src
pom.xml
hello-web-client-service

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
 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.logicbig.example
    <artifactId>hello-eureka-server</artifactId>
    <version>1.0-SNAPSHOT
    <parent>
        <groupId>org.springframework.boot
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.0.4.RELEASE
    </parent>
    cproperties>
        <java.version>1.8</java.version>
    </properties>
    <dependencies>
        <dependency>
           <groupId>org.springframework.cloud
           <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
        </dependency>
    </dependencies>
    <dependencyManagement>
        <dependencies>
           <dependency>
              <groupId>org.springframework.cloud
              <artifactId>spring-cloud-dependencies</artifactId>
               <version>Finchley.SR1
               <type>pom</type>
              <scope>import</scope>
           </dependency>
        </dependencies>
    </dependencyManagement>
 </project>
UP
```

```
package com.logicbig.example;

import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;

@SpringBootApplication
@EnableEurekaServer
public class HelloEurekaServerMain {
    public static void main(String[] args) {
        SpringApplication.run(HelloEurekaServerMain.class, args);
    }
}
```

```
server:
  port: 7777
eureka:
  instance:
  hostname: localhost
  client:
   registerWithEureka: false
  fetchRegistry: false
```

```
<version>2.0.4.RELEASE
   </parent>
   cproperties>
       <java.version>1.8</java.version>
   </properties>
   <dependencies>
       <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-web</artifactId>
       </dependency>
       <dependency>
           <groupId>org.springframework.cloud
           <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
       </dependency>
   </dependencies>
   <dependencyManagement>
       <dependencies>
           <dependency>
              <groupId>org.springframework.cloud
              <artifactId>spring-cloud-dependencies</artifactId>
              <version>Finchley.SR1
              <type>pom</type>
              <scope>import</scope>
           </dependency>
       </dependencies>
   </dependencyManagement>
</project>
```

```
package com.logicbig.example;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
import java.util.concurrent.atomic.AtomicLong;

@RestController
```

```
public class HelloController {
    private AtomicLong counter = new AtomicLong();

    @GetMapping("/hello")
    public HelloObject getHelloWordObject() {
        HelloObject hello = new HelloObject();
        hello.setMessage("Hi there! you are number " + counter.incrementAndGet());
        return hello;
    }
}
```

```
package com.logicbig.example;

public class HelloObject {
    private String message;

public String getMessage() {
        return message;
    }

public void setMessage(String message) {
        this.message = message;
    }
}
```

```
package com.logicbig.example;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@SpringBootApplication
```

```
eureka.client.serviceUrl.defaultZone=http://localhost:7777/eureka/
```

```
spring.application.name=hello-service
```

```
<?xml version="1.0" encoding="UTF-8"?>
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.logicbig.example
   <artifactId>hello-web-client-service</artifactId>
   <version>1.0-SNAPSHOT
   <parent>
      <groupId>org.springframework.boot
      <artifactId>spring-boot-starter-parent</artifactId>
      <version>2.0.4.RELEASE
   </parent>
   cproperties>
      <java.version>1.8</java.version>
   </properties>
   <dependencies>
      <dependency>
```

```
<groupId>org.springframework.boot
            <artifactId>spring-boot-starter-web</artifactId>
         </dependency>
         <dependency>
            <groupId>org.springframework.boot
            <artifactId>spring-boot-starter-thymeleaf</artifactId>
         </dependency>
         <dependency>
            <groupId>org.springframework.cloud
            <artifactId>spring-cloud-starter-netflix-eureka-client</artifactId>
         </dependency>
     </dependencies>
     <dependencyManagement>
         <dependencies>
            <dependency>
                <groupId>org.springframework.cloud
                <artifactId>spring-cloud-dependencies</artifactId>
                <version>Finchley.SR1
                <type>pom</type>
                <scope>import</scope>
            </dependency>
         </dependencies>
     </dependencyManagement>
 </project>
UP
```

public class HelloObject {
 private String message;

public String getMessage() {
 return message;
}

public void setMessage(String message) {

package com.logicbig.example;

```
}
```

```
package com.logicbig.example;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.cloud.client.ServiceInstance;
import org.springframework.cloud.client.discovery.DiscoveryClient;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.client.RestTemplate;
import java.time.LocalDateTime;
import java.util.List;
@Controller
public class HelloWebClientController {
    @Autowired
   private DiscoveryClient discoveryClient;
    @GetMapping("/")
   public String handleRequest(Model model) {
       //accessing hello-service
        List<ServiceInstance> instances = discoveryClient.getInstances("hello-service");
        if (instances != null && instances.size() > 0) {//todo: replace with a load balancing mechanism
            ServiceInstance = instances.get(0);
            String url = serviceInstance.getUri().toString();
            url = url + "/hello";
            RestTemplate restTemplate = new RestTemplate();
            HelloObject helloObject = restTemplate.getForObject(url,
                    HelloObject.class);
            model.addAttribute("msg", helloObject.getMessage());
            model.addAttribute("time", LocalDateTime.now());
        return "hello-page";
```

```
}
```

```
package com.logicbig.example;

import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@SpringBootApplication
@EnableDiscoveryClient
public class HelloWebClientServiceMain {
    public static void main(String[] args) {
        SpringApplication.run(HelloWebClientServiceMain.class, args);
    }
}
```

```
server.port=9080
eureka.client.serviceUrl.defaultZone=http://localhost:7777/eureka/
```

```
{\tt spring.application.name=hello-web-client-service}
```



```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
    xmlns:th="http://www.thymeleaf.org">
```

```
<body>
<h2>Hello Page</h2>
<div th:text="${msg}"/>
<div>Time: <span th:text="${time}"/></div>
</body>
</html>
```

















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See Also

Using RestTemplate as a Load Balancer Client with NetFlix Ribbon

Load Balancing And Running Multiple Instances of a Microservice

Spring Cloud Config with File System Backend

Spring Cloud Config with Git Backend

Circuit Breaker Hystrix Basics

Hystrix Circuit Breaker, getting failure exception in fallback method

Hystrix Circuit Breaker, Setting Configuration Properties Using @HystrixProperty	Circuit Breaker Hystrix, Changing Default Thread Pool Properties
Circuit Breaker, Specifying Hystrix configuration in application.properties file	Circuit Breaker Hystrix Event Listener
Circuit Breaker Hystrix, concurrent requests and default thread pool size	Hystrix CircuitBreaker, Thread Local Context Propagation

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