

Date : 28/04/2021

Spring Boot 9AM

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Workspace upto 28/04/2021

https://www.mediafire.com/file/ee7c6zf50a8vtx4/SpringBoot9AM_28042021_RAGHU.zip/file

Eureka Server (Register and Discovery Server)

1. Eureka Server Configurartion

a) create new Eureka server project

Name : SpringCloudEurekaServer

Dep : Eureka Server

(spring-cloud-starter-netflix-eureka-server)

b) At main class : @EnableEurekaServer

c) application.proeprties

#Eureka Server recomanded port number

server.port=8761

#Eureka server itself should not be register and fetch data

eureka.client.register-with-eureka=false

eureka.client.fetch-registry=false

d) Run main class and enter URL

<http://localhost:8761/>

e) Stop Application

=====

*) Note:

=> Every Cloud Application, Eureka, Config server, MS#, zuul
..etc contains one common parent project used as BOM.

Given as: spring-cloud-dependencies.

=> It provide common keys, code, config, jars, obejcts..
etc to all Cloud MS#/Eureka/.. Applications

=> Spring Cloud current version is : Hoxton

<https://mvnrepository.com/artifact/org.springframework.cloud/spring-cloud-dependencies>

*) Intra communication of MS# can be implemented using Client codes
They are 3 types.

a. DiscoveryClient + RestTemplate

b. LoadBalancerClient + RestTemplate

c.*** Open Feign | Feign Client | Abstract Client

*) client code will

-> First goto Eureka with Provider App ServieId

-> Fetch ServiceInstance object from Eureka

-> Then create URL using Host, port and Path

-> Make HTTP call to provider app

-> Get Response back and give it to RestController.

Q) Do we need to publish/register our MS# with Eureka?

A) YES. By adding key
eureka.client.register-with-eureka=true

Q) Can our MS# fetch data of other MS# from Eureka Server?

A) YES. By adding key
eureka.client.fetch-registry=true

Q) Can eureka register with eureka and fetch data from eureka?

A) Eureka Server itself should not do register and fetch.
So add above keys with value false.

eureka.client.register-with-eureka=false
eureka.client.fetch-registry=false

Q) Can one maven Project have multiple Parents?

A) No. One Maven project can have at max one Parent Project.
Then another maven project is added as BOM(Bill Of Materials)
(or <dependencyManagement>)

```
class A{}  
class B{}  
class C extends A,B{} //not possible  
class C extends A{  
    B ob; //HAS-A  
}
```

Q) how can we provide serviceId and InstanceId to a MS#?

A) by using Project name we can give it.

#ServiceId
spring.application.name=<any-name>

and to provide instanceId
eureka.instance.instance-id=<any-number>

Q) What a ServiceInstance object contains?

A) ServiceInstance = SID + InstanceId + Host + PORT + LF