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Eureka

Eureka setup docs

Eureka server is used as Discovery server.

Step 1: Create a spring boot application using below configuration:

* Use below parent for spring boot

<parent>

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

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

<version>2.2.4.RELEASE</version>

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

</parent>

* For eureka we have added below dependency.

<dependency>

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

<artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>

</dependency>

* In pom if you look we have defined no version in dependency the version dependency is handled by parent pom. For eureka we have mentioned a parent using dependencimanagement tag in which we defined parent pom and its version.
* To enable eureka we need to used @EnableEurekaServer, it will enable autoconfiguration of eureka server configuration. And in application.yml file we have defined below properties

server:

port: 5001

If you open EurekaServerAutoConfiguration.java you can find @ConditionalOnBean(EurekaServerMarkerConfiguration.Marker.**class**) It says that if any class have this marker enable auto configuration.

If you now open @EnableEurekaServer annotation you can find out below code.

@Target(ElementType.***TYPE***)

@Retention(RetentionPolicy.***RUNTIME***)

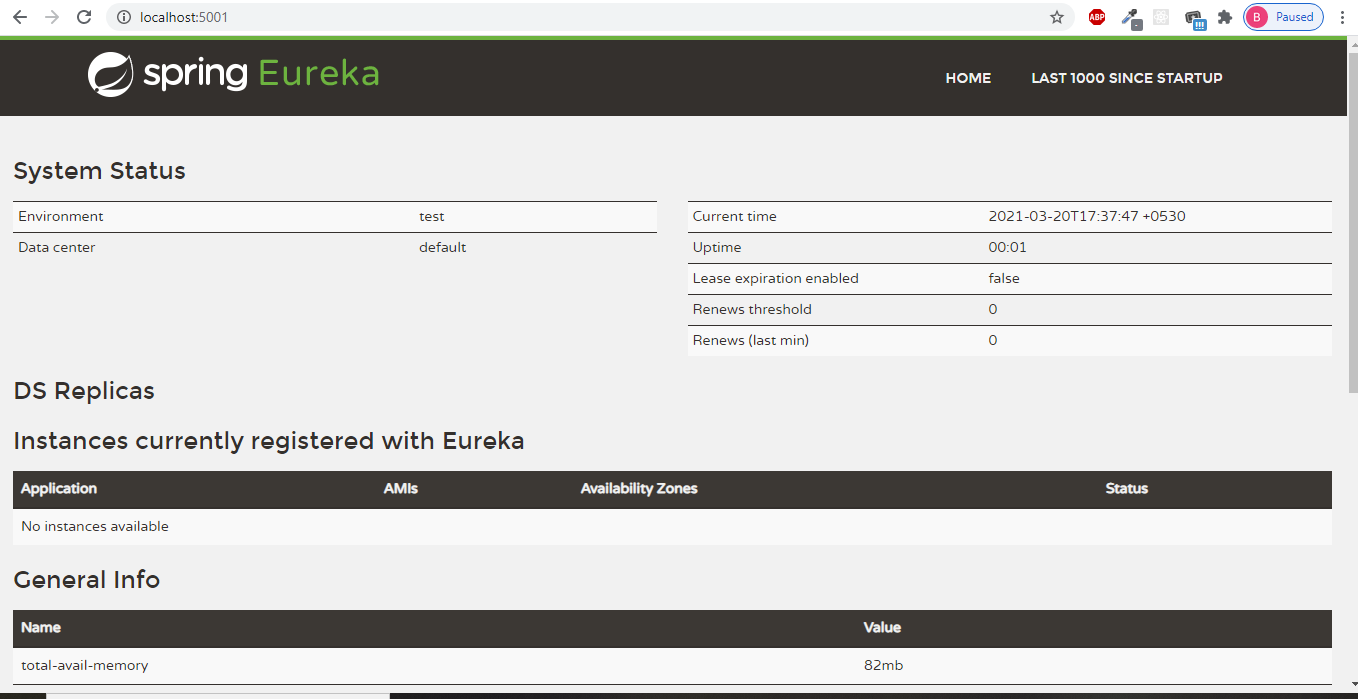
@Documented

@Import(EurekaServerMarkerConfiguration.**class**)

**public** **@interface** EnableEurekaServer {

}

If you start this project you will get exception but you eureka server will get started on port 5001.



To understand the error let assume a scenario, suppose we have S1, S2, S3... S20 microservices having n no. of instance can we manage all this instance in one box. No because if box went down all our microservices will go down. So, we are deploying our services on cloud or using kubernate.

Let’s take example of cloud like AWS, every cloud has something called as Region and each region is divided into zones, let assume we have we have three zones and each zone have some microservices deployed and all are register with one eureka, here if eureka go down then it will stop synching of registry, also face some latency issue etc.

That’s why we use eureka cluster in prod environment in which in all zones one eureka is deployed. And here each eureka synch up it’s registry from another eureka server.

So here we are getting this error because here eureka is thinking that there is another eureka and trying to fetch its registry.

Now I have to resolve this issue I need to write some property. Which is given below: Also during startup it try to get host name from machine so it is better practice to write host name using below property. ( in unix etc/hosts/

eureka:

client:

fetch-registry: false

register-with-eureka: false

instance:

hostname: localhost