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一 跪求服务启动问题

启动微服务出现的一些警告:

```
WARN [xzl-beg,,,] 16088 --- [ main] c.c.c.ConfigServicePropertySourceLoca
tor : Fetching config from server at : http://localhost:8888
```

解决方案与思路:

https://blog.csdn.net/Deemo /article/details/81912316

```
WARN [xzl-beg,,,] 16088 --- [ main] c.c.c.ConfigServicePropertySourceLoca
tor : Could not locate PropertySource: I/O error on GET request for "htt
p://localhost:8888/xzl-beg/default": Connection refused: connect; nested ex
ception is java.net.ConnectException: Connection refused: connect
```

解决方案与思路:

https://blog.csdn.net/fenglailea/article/details/82783958

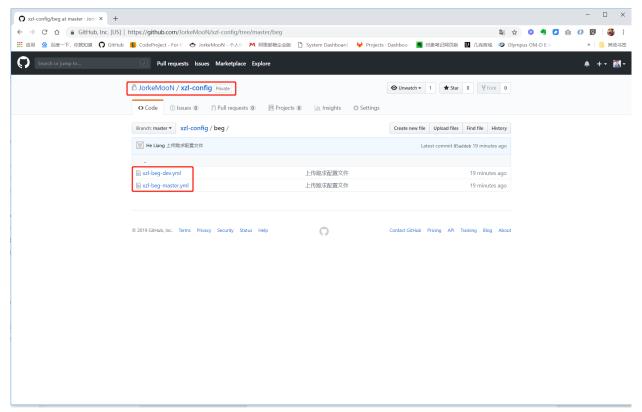
```
1 WARN [xzl-beg,,,] 16088 --- [ost-startStop-1] c.n.c.sources.URLConfigurat
ionSource : No URLs will be polled as dynamic configuration sources.
```

解决方案与思路:

https://blog.csdn.net/simpledate/article/details/82777632

二 整合远程配置服务

作为配置服务客户端,取github上面的配置文件



github上面配置文件的路径为

https://github.com/JorkeMooN/xzl-config/beg

文件夹下面有xzl-beg-dev.yml和xzl-beg-master.yml两个配置文件 命名规则为{spring.application.name}-{spring.cloud.config.profile}.yml 要对应到代码中的配置文件

```
spring:
 application:
   name: xzl-beg
  cloud:
    consul:
     host: 192.168.100.150
     port: 8500
     discovery:
       register-health-check: false
   config:
     discovery:
       enabled: true
       service-id: xzl-config
     username: xzlgroup
     password: xzlgroup
     label: master
     profile: dev
     fail-fast: true
     retry:
       # 配置重试次数,默认为6
       max-attempts: 6
       # 间隔乘数, 默认1.1
       multiplier: 1.1
       # 初始重试间隔时间, 默认1000ms
       initial-interval: 1000
       # 最大间隔时间, 默认2000ms
       max-interval: 2000
```

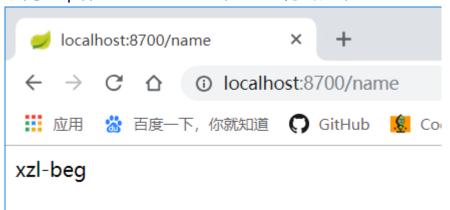
通过这种方式定位到配置文件后 可以使用@Value注解来获取配置的值

例如:

```
1  @RefreshScope
2  @RestController
3  public class ConfigController {
4     @Value("${spring.application.name}")
5     private String name;
6
7     @GetMapping(value = "/name")
```

```
public Object name() {
  return this.name;
}
```

访问http://localhost:8700/name得到如下



其中@RefreshScope是可以实时更新配置文件信息 操作步骤:

- 1.通过github修改仓库中的配置文件
- 2.使用POST方式请求http://localhost:8700/actuator/refresh, 手动刷新刷新返回值:

```
1 [
2 "config.client.version",
3 "spring.application.name"
4 ]
```

通过上述步骤即可实时刷新配置文件

三 整合zipkin+sleuth链路跟踪

1.引入依赖

该引用包含如下两个引用

```
1 <dependencies>
2 <dependency>
```

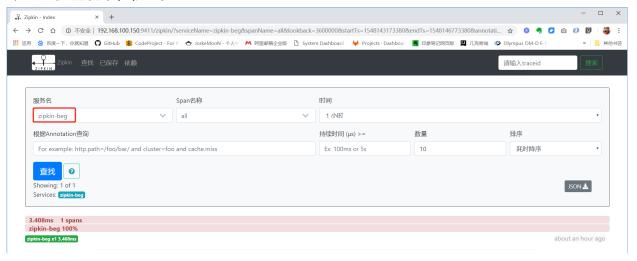
2.添加配置

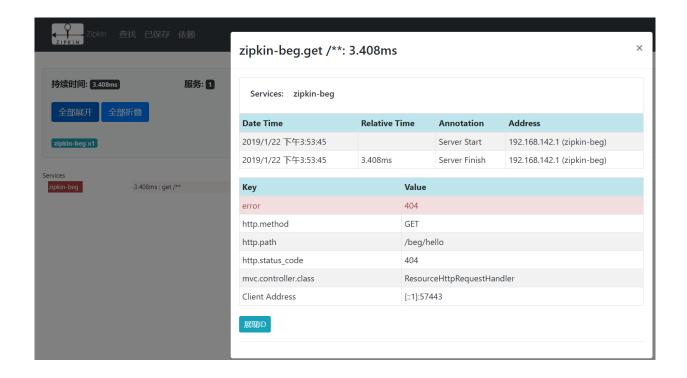
```
1 spring:
2 zipkin:
3 service:
4 name: zipkin-beg
5 base-url: http://192.168.100.150:9411
6 compression:
7 enabled: true
8 sleuth:
9 sampler:
10 # 采样百分比,默认为0.1,这里配置1,是记录全部的sleuth信息,是为了收集到更多的数据(仅供测试用)。在生产环境需要设置合适的值。
11 probability: 1.0
```

参考:

https://www.cnblogs.com/shunyang/p/7011283.html

跟踪到的效果图如下:





四 整合zuul网关路由

1.zuul项目maven依赖

2.配置文件

```
1server:2port: 86103# 网关的session名字,建议每个微服务都单独命名4servlet:5session:6cookie:
```

```
name: ZUUL_SESSION
8
9 spring:
  application:
10
   name: xzl-zuul
11
   cloud:
12
13 consul:
  host: 192.168.100.150
14
  port: 8500
15
16 discovery:
   register-health-check: false
18
19 zuul:
  # 忽略框架默认的服务映射路径
20
  ignored-services: '*'
21
  # 不忽略框架与权限相关的头信息
22
  ignore-security-headers: false
23
24 # 不忽略任何头部信息,所有header都转发到下游的资源服务器
   # 所以这里对制定的路由开启自定义敏感头。除了设置为true,也可以设置为空。
zuul.sensitiveHeaders= 只是全局设置的做法。不推荐! 破坏了默认设置的用意
26 # sensitive-headers:
27 routes:
28 # 所有以/beg开头的请求都转发到xzl-beg应用中
  xzl-beg:
29
30 path: /beg/**
31 serviceId: xzl-beg
32 # springcloud项目中经过网关zuul转发请求后发生session失效问题,这是由于zuul默
认会丢弃原来的session并生成新的session
33 sensitiveHeaders: true
```

3.配置完成后启动项目

zuul网关需要在 要代理的服务之后启动, 放最后启动也没问题

请求规则:

直接通过xzl-beg服务请求	通过zuul网关请求		
http://localhost:8700/hello	http://localhost:8610/beg/hello		
http://{原服务IP}:{原服务端口}/{请求地址}	http://{网关IP}:{网关端口}/{配置的前 缀}/{请求地址}		

五 整合hystrix熔断器,以及dashboard显示

1.添加后启动被监控的项目 (xzl-beg)

报错如下:

```
1 java.lang.IllegalStateException: Failed to introspect Class [org.springfr
amework.cloud.netflix.hystrix.HystrixCircuitBreakerConfiguration] from Clas
sLoader [sun.misc.Launcher$AppClassLoader@18b4aac2]
   at org.springframework.util.ReflectionUtils.getDeclaredMethods(Reflectio
nUtils.java:659) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.util.ReflectionUtils.doWithMethods(ReflectionUtil
s.java:556) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.util.ReflectionUtils.doWithMethods(ReflectionUtil
s.java:541) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.util.ReflectionUtils.getUniqueDeclaredMethods(Ref
lectionUtils.java:599) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.beans.factory.support.AbstractAutowireCapableBean
Factory.getTypeForFactoryMethod(AbstractAutowireCapableBeanFactory.java:726
~[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.beans.factory.support.AbstractAutowireCapableBean
Factory.determineTargetType(AbstractAutowireCapableBeanFactory.java:667) ~
[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.beans.factory.support.AbstractAutowireCapableBean
Factory.predictBeanType(AbstractAutowireCapableBeanFactory.java:635) ~[spri
ng-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   at org.springframework.beans.factory.support.AbstractBeanFactory.isFacto
ryBean(AbstractBeanFactory.java:1489) ~[spring-beans-5.0.7.RELEASE.jar:5.0.
7.RELEASE
   at
org.springframework.beans.factory.support.DefaultListableBeanFactory.doGetB
eanNamesForType(DefaultListableBeanFactory.java:420) ~[spring-beans-5.0.7.R
ELEASE.jar:5.0.7.RELEASE]
org.springframework.beans.factory.support.DefaultListableBeanFactory.getBea
nNamesForType(DefaultListableBeanFactory.java:390) ~[spring-beans-5.0.7.REL
EASE.jar:5.0.7.RELEASE]
org.springframework.beans.factory.support.DefaultListableBeanFactory.getBea
nsOfType(DefaultListableBeanFactory.java:511) ~[spring-beans-
5.0.7.RELEASE.jar:5.0.7.RELEASE]
org.springframework.beans.factory.support.DefaultListableBeanFactory.getBea
nsOfType(DefaultListableBeanFactory.java:503) ~[spring-beans-
5.0.7.RELEASE.jar:5.0.7.RELEASE]
14 at org.springframework.context.support.AbstractApplicationContext.getBe
ansOfType(AbstractApplicationContext.java:1198) ~[spring-context-5.0.7.RELE
```

```
ASE.jar:5.0.7.RELEASE]
    at org.springframework.boot.SpringApplication.getExitCodeFromMappedExce
ption(SpringApplication.java:889) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELE
ASE]
16
   at
org.springframework.boot.SpringApplication.getExitCodeFromException(SpringA
pplication.java:875) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.handleExitCode(SpringAppl
ication.java:861) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.handleRunFailure(SpringAp
plication.java:810) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:338) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1255) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1243) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at com.xzlgroup.beg.BegApplication.main(BegApplication.java:15) [classe
s/:na]
23 Caused by: java.lang.NoClassDefFoundError: com/netflix/hystrix/contrib/j
avanica/aop/aspectj/HystrixCommandAspect
    at java.lang.Class.getDeclaredMethods0(Native Method) ~[na:1.8.0 162]
    at java.lang.Class.privateGetDeclaredMethods(Class.java:2701) ~[na:1.8.
0_162]
    at java.lang.Class.getDeclaredMethods(Class.java:1975) ~[na:1.8.0_162]
26
    at org.springframework.util.ReflectionUtils.getDeclaredMethods(Reflecti
onUtils.java:641) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
   ... 20 common frames omitted
29 Caused by: java.lang.ClassNotFoundException:
com.netflix.hystrix.contrib.javanica.aop.aspectj.HystrixCommandAspect
    at java.net.URLClassLoader.findClass(URLClassLoader.java:381) ~[na:1.8.
30
0 162
   at java.lang.ClassLoader.loadClass(ClassLoader.java:424) ~
[na:1.8.0_162]
   at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:338) ~
[na:1.8.0 162]
   at java.lang.ClassLoader.loadClass(ClassLoader.java:357) ~
[na:1.8.0_162]
34 ... 24 common frames omitted
```

解决方案:

明确hystrix的版本号,因为spring cloud没有包含hystrix,所以需要自行制定版本

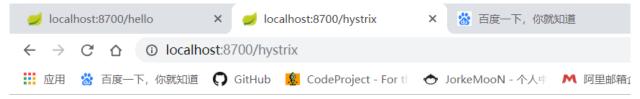
```
1 <dependency>
2 <groupId>org.springframework.cloud</groupId>
```

这样即解决了启动报错的问题

2.启动成功

但是, hystrix监控还是无法监控到beg服务

请求 http://localhost:8700/hystrix.stream 链接会报404错误



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Wed Jan 23 10:19:29 GMT+08:00 2019
There was an unexpected error (type=Not Found, status=404).
No message available

监控后台报错信息:

解决方案:

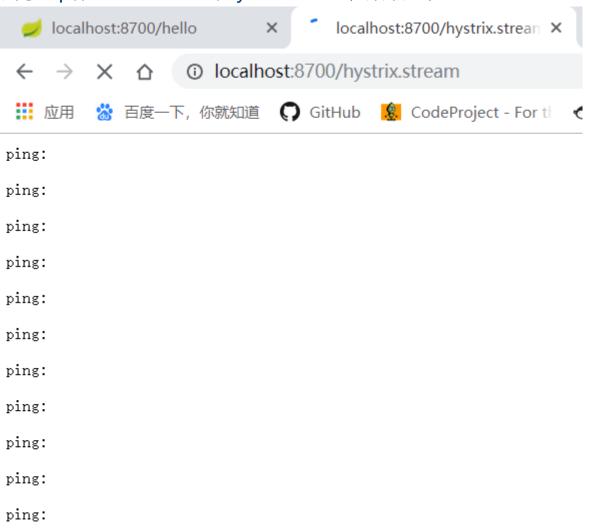
参考:

https://www.cnblogs.com/wangdaijun/p/8891220.html https://ask.csdn.net/questions/683294

根据参考文档添加一个bean后,成功

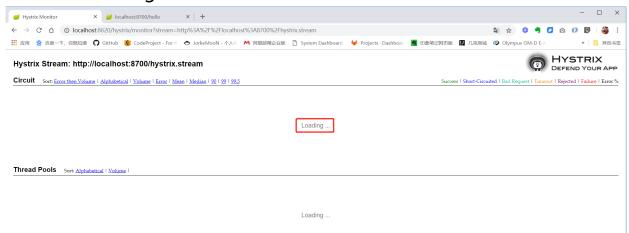
```
1 @Configuration
2 public class HystrixConfig {
   @Bean
4
   @SuppressWarnings("unchecked")
   public ServletRegistrationBean hystrixMetricsStreamServlet(){
   ServletRegistrationBean registrationBean = new ServletRegistrationBean(n
ew HystrixMetricsStreamServlet());
   registrationBean.addUrlMappings("/hystrix.stream");
   registrationBean.setLoadOnStartup(1);
   registrationBean.setName("HystrixMetricsStreamServlet");
10
  return registrationBean;
11
12
13
14 }
```

访问http://localhost:8700/hystrix.stream,效果如下



3.进入监控页面又有个问题

一直显示 Loading......



解决方案:

只有开始请求被监控的服务,才能出现监控图

同时,调用的方法需要添加@HystrixCommand

参考:

https://blog.csdn.net/gg 35783540/article/details/81814541

解决完后, 监控效果图如下

Queued

Pool Size

Executions

Queue Size

Hystrix Stream: http://localhost:8700/hystrix.stream



六 整合turbine聚合监控+hystrix dashboard显

示

hystrix dashboard首页的提示如下:



Hystrix Dashboard

http://hostname:port/turbine/turbine.	stream	
Cluster via Turbine (custom	cluste	efault cluster): http://turbine-hostname:port/turbine.stream er): http://turbine-hostname:port/turbine.stream?cluster=[clusterName] etrix App: http://hystrix-app:port/hystrix.stream
Delay: 2000	ms	Title: Example Hystrix App
		Monitor Stream

Cluster via Turbine (default cluster): http://turbinehostname:port/turbine.stream

Cluster via Turbine (custom cluster): http://turbinehostname:port/turbine.stream?cluster=[clusterName]

Single Hystrix App: http://hystrix-app:port/hystrix.stream

这里可以看出

- 1.如果只需要监控单个APP,只使用hystrix dashboard就可以了;
- 2.如果需要监控多个APP, 如果使用hystrix dashboard, 只能分开监控 http://hystrix-app:port/hystrix.stream, 展示效果很差;
- 3.因此,对于监控多个APP,需要添加使用turbine,用来聚合多个APP的监控数据,并且可以自定义监控哪个集群。

下面开始分开搭建turbine与hystrix dashboard服务

1.hystrix dashboard

引入如下依赖:

```
1 <dependency>
  <groupId>org.springframework.boot</groupId>
3 <artifactId>spring-boot-starter-actuator</artifactId>
4 </dependency>
5 <dependency>
6 <groupId>org.springframework.cloud</groupId>
 <artifactId>spring-cloud-starter-consul-discovery</artifactId>
8 </dependency>
9 <dependency>
   <groupId>org.springframework.cloud</groupId>
   <artifactId>spring-cloud-starter-netflix-hystrix</artifactId>
12 </dependency>
13 <dependency>
  <groupId>org.springframework.cloud</groupId>
14
  <artifactId>spring-cloud-starter-netflix-hystrix-dashboard</artifactId>
16 </dependency>
```

配置文件:

```
1 server:
2 port: 8620
3
4 spring:
5 application:
6 name: xzl-hystrix-dashboard
7 cloud:
8 consul:
9 host: 192.168.100.150
10 port: 8500
11 discovery:
12 register-health-check: false
```

2.turbine

引入如下依赖: (需要排除eureka依赖包)

```
1 <dependency>
2 <groupId>org.springframework.boot</groupId>
3 <artifactId>spring-boot-starter-actuator</artifactId>
4 </dependency>
```

```
5 <dependency>
  <groupId>org.springframework.cloud</groupId>
 <artifactId>spring-cloud-starter-consul-discovery</artifactId>
8 </dependency>
9 <dependency>
  <groupId>org.springframework.cloud</groupId>
   <artifactId>spring-cloud-starter-netflix-turbine</artifactId>
11
  <exclusions>
12
  <exclusion>
13
14 <groupId>com.netflix.eureka</groupId>
15 <artifactId>eureka-core</artifactId>
  </exclusion>
16
17 <exclusion>
  <groupId>com.netflix.eureka
18
  <artifactId>eureka-client</artifactId>
19
20 </exclusion>
  </exclusions>
22 </dependency>
```

配置文件:

```
1 server:
 port: 8630
3
4 spring:
 application:
6 name: xzl-turbine
 cloud:
 consul:
 host: 192.168.100.150
10 port: 8500
11 discovery:
12 register-health-check: false
13
14 turbine:
15 # 定义所有要监控的微服务
16 app-config: xzl-beg
17 # 设置监控的表达式,通过此表达式表示要获取监控信息名称
18 cluster-name-expression: new String("default")
```

两个服务都搭建成功后启动

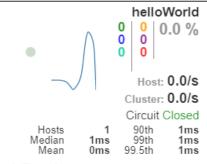
在dashboard中添加监控如下url

```
1 http://localhost:8630/turbine.stream
```

效果如下:

Hystrix Stream: http://localhost:8630/turbine.stream

Circuit Sort: Error then Volume | Alphabetical | Volume | Error | Mean | Median | 90 | 99 | 99.5



Thread Pools Sort: Alphabetical | Volume |

HelloController

Host: 0.0/s

Cluster: 0.0/s

Active 0 Max Active 0
Queued 0 Executions 0
Pool Size 10 Queue Size 5

或者加上?cluster=default参数自定义集群名称

Hystrix Stream: http://localhost:8630/turbine.stream?cluster=default

Circuit Sort: Error then Volume | Alphabetical | Volume | Error | Mean | Median | 90 | 99 | 99.5



Thread Pools Sort: Alphabetical | Volume |

HelloController Host: 0.0/s Cluster: 0.0/s Active 0 Max Active 0 Queued 0 Executions 0 Pool Size 10 Queue Size 5

turbine聚合后台日志记录:

1 Just added and starting handler tuple: StreamingHandler_909cd779-836d-44e
5-a6f9-2c0be86f2c43

```
2 2019-01-23 15:09:32.973 INFO 18164 --- [nio-8630-exec-2]
c.n.turbine.data.AggDataFromCluster : Per handler dispacher started for: St
reamingHandler_909cd779-836d-44e5-a6f9-2c0be86f2c43
3 2019-01-23 15:09:32.973 INFO 18164 --- [nio-8630-exec-1] c.n.t.s.TurbineS
treamingConnection : Relevance metrics config: {}
4 2019-01-23 15:09:32.973 INFO 18164 --- [nio-8630-exec-1] c.n.t.monitor.cl
uster.ClusterMonitor: Registering event handler for cluster monitor: Strea
mingHandler_4502734c-3c2e-428e-8d28-e0d0e098e767
5 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-1] c.n.t.handler.Tu
rbineDataDispatcher :
7 Just added and starting handler tuple: StreamingHandler_4502734c-3c2e-428
e-8d28-e0d0e098e767
8 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-2] c.n.t.monitor.cl
uster.ClusterMonitor : All event handlers for cluster monitor: [StaticListe
ner_For_Aggregator, StreamingHandler_909cd779-836d-44e5-a6f9-2c0be86f2c43]
9 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-2] c.n.t.monitor.cl
uster.ClusterMonitor : Starting up the cluster monitor for default_agg
10 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-1] c.n.turbine.dat
a.AggDataFromCluster : Per handler dispacher started for: StreamingHandler
4502734c-3c2e-428e-8d28-e0d0e098e767
11 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-1] c.n.t.monitor.c
luster.ClusterMonitor : All event handlers for cluster monitor: [StaticList
ener For Aggregator, StreamingHandler 4502734c-3c2e-428e-8d28-e0d0e098e767,
StreamingHandler 909cd779-836d-44e5-a6f9-2c0be86f2c43]
12 2019-01-23 15:09:32.974 INFO 18164 --- [nio-8630-exec-1] c.n.t.monitor.c
luster.ClusterMonitor : Starting up the cluster monitor for default agg
13 2019-01-23 15:10:11.589 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery : Fetching instance list for apps: [xzl-beg]
14 2019-01-23 15:10:11.589 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery: Fetching instances for app: xzl-beg
15 2019-01-23 15:10:11.596 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery: Received instance list for service: xzl-beg, size=1
16 2019-01-23 15:10:11.596 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan
ceObservable : Retrieved hosts from InstanceDiscovery: 1
17 2019-01-23 15:10:11.597 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan
ceObservable : Found hosts that have been previously terminated: 0
18 2019-01-23 15:10:11.597 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan
ceObservable : Hosts up:1, hosts down: 0
19 2019-01-23 15:11:11.589 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery : Fetching instance list for apps: [xzl-beg]
20 2019-01-23 15:11:11.589 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery: Fetching instances for app: xzl-beg
21 2019-01-23 15:11:11.594 INFO 18164 --- [ Timer-0] o.s.c.n.t.CommonsInsta
nceDiscovery: Received instance list for service: xzl-beg, size=1
22 2019-01-23 15:11:11.594 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan
ceObservable : Retrieved hosts from InstanceDiscovery: 1
```

```
23 2019-01-23 15:11:11.594 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan ceObservable : Found hosts that have been previously terminated: 0
24 2019-01-23 15:11:11.595 INFO 18164 --- [ Timer-0] c.n.t.discovery.Instan ceObservable : Hosts up:1, hosts down: 0
```

七 turbine stream+rabbitMQ,解耦合聚合监控 数据

1.被监控的服务

①添加依赖

被监控的服务需要包含如下依赖:

②添加配置

```
1 spring:
2 rabbitmq:
3 host: 192.168.100.150
4 port: 5672
5 username: geekerx
6 password: geekerx
```

重新启动正常。

2.turbine服务

①添加依赖

②添加配置

```
1 spring:
2 rabbitmq:
3 host: 192.168.100.150
4 port: 5672
5 username: geekerx
6 password: geekerx
```

重新启动报错

日志如下:

```
1 2019-01-23 15:52:41.490 WARN 7596 --- [ost-startStop-1] o.a.c.loader.Weba
ppClassLoaderBase : The web application [ROOT] appears to have started a th
read named [spring.cloud.inetutils] but has failed to stop it. This is very
likely to create a memory leak. Stack trace of thread:
   java.net.Inet6AddressImpl.getHostByAddr(Native Method)
   java.net.InetAddress$2.getHostByAddr(InetAddress.java:932)
   java.net.InetAddress.getHostFromNameService(InetAddress.java:617)
   java.net.InetAddress.getHostName(InetAddress.java:559)
5
   java.net.InetAddress.getHostName(InetAddress.java:531)
org.springframework.cloud.commons.util.InetUtils$$Lambda$103/1277009227.cal
1(Unknown Source)
   java.util.concurrent.FutureTask.run(FutureTask.java:266)
  java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.jav
a:1149)
  java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.j
ava:624)
   java.lang.Thread.run(Thread.java:748)
12 2019-01-23 15:52:41.502 INFO 7596 --- [ main] ConditionEvaluationReportL
oggingListener :
13
14 Error starting ApplicationContext. To display the conditions report re-r
un your application with 'debug' enabled.
```

```
15 2019-01-23 15:52:41.511 ERROR 7596 --- [ main] o.s.boot.SpringApplicatio
n : Application run failed
16
17 org.springframework.beans.factory.BeanCreationException: Error creating
bean with name 'turbineController' defined in org.springframework.cloud.net
flix.turbine.stream.TurbineStreamConfiguration: Bean instantiation via fact
ory method failed; nested exception is org.springframework.beans.BeanInstan
tiationException: Failed to instantiate
[org.springframework.cloud.netflix.turbine.stream.TurbineController]: Facto
ry method 'turbineController' threw exception; nested exception is java.lan
g.BootstrapMethodError: java.lang.NoClassDefFoundError:
com/netflix/turbine/aggregator/InstanceKey
    at org.springframework.beans.factory.support.ConstructorResolver.instan
tiateUsingFactoryMethod(ConstructorResolver.java:590) ~[spring-beans-
5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.AbstractAutowireCapableBea
nFactory.instantiateUsingFactoryMethod(AbstractAutowireCapableBeanFactory.j
ava:1256) ~[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.AbstractAutowireCapableBea
nFactory.createBeanInstance(AbstractAutowireCapableBeanFactory.java:1105) ~
[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.AbstractAutowireCapableBea
nFactory.doCreateBean(AbstractAutowireCapableBeanFactory.java:543) ~
[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.AbstractAutowireCapableBea
nFactory.createBean(AbstractAutowireCapableBeanFactory.java:503) ~[spring-b
eans-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.AbstractBeanFactory.lambda
$doGetBean$0(AbstractBeanFactory.java:317) ~[spring-beans-
5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.DefaultSingletonBeanRegist
ry.getSingleton(DefaultSingletonBeanRegistry.java:222) ~[spring-beans-
5.0.7 RELEASE jar: 5.0.7 RELEASE
    at org.springframework.beans.factory.support.AbstractBeanFactory.doGetB
ean(AbstractBeanFactory.java:315) ~[spring-beans-5.0.7.RELEASE.jar:5.0.7.RE
LEASE]
    at org.springframework.beans.factory.support.AbstractBeanFactory.getBea
n(AbstractBeanFactory.java:199) ~[spring-beans-5.0.7.RELEASE.jar:5.0.7.RELE
ASE]
org.springframework.beans.factory.support.DefaultListableBeanFactory.preIns
tantiateSingletons(DefaultListableBeanFactory.java:760) ~[spring-beans-5.0.
7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.context.support.AbstractApplicationContext.finis
hBeanFactoryInitialization(AbstractApplicationContext.java:869) ~[spring-co
ntext-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.context.support.AbstractApplicationContext.refre
sh(AbstractApplicationContext.java:550) ~[spring-context-
5.0.7 RELEASE jar: 5.0.7 RELEASE
```

```
at org.springframework.boot.web.servlet.context.ServletWebServerApplica
tionContext.refresh(ServletWebServerApplicationContext.java:140) ~[spring-b
oot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
org.springframework.boot.SpringApplication.refresh(SpringApplication.java:7
59) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.refreshContext(SpringAppl
ication.java:395) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:327) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1255) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.SpringApplication.run(SpringApplication.jav
a:1243) [spring-boot-2.0.3.RELEASE.jar:2.0.3.RELEASE]
36
    at
com.xzlgroup.turbine.TurbineApplication.main(TurbineApplication.java:14) [c
lasses/:nal
37 Caused by: org.springframework.beans.BeanInstantiationException: Failed
to instantiate [org.springframework.cloud.netflix.turbine.stream.TurbineCon
troller]: Factory method 'turbineController' threw exception; nested except
ion is java.lang.BootstrapMethodError: java.lang.NoClassDefFoundError:
com/netflix/turbine/aggregator/InstanceKey
    at org.springframework.beans.factory.support.SimpleInstantiationStrateg
y.instantiate(SimpleInstantiationStrategy.java:185) ~[spring-beans-5.0.7.RE
LEASE.jar:5.0.7.RELEASE]
    at org.springframework.beans.factory.support.ConstructorResolver.instan
tiateUsingFactoryMethod(ConstructorResolver.java:582) ~[spring-beans-
5.0.7 RELEASE jar: 5.0.7 RELEASE
   ... 18 common frames omitted
41 Caused by: java.lang.BootstrapMethodError: java.lang.NoClassDefFoundErro
r: com/netflix/turbine/aggregator/InstanceKey
    at org.springframework.cloud.netflix.turbine.stream.TurbineController.
<init>(TurbineController.java:44) ~[spring-cloud-netflix-turbine-stream-
2.0.0.RELEASE.jar:2.0.0.RELEASE]
    at org.springframework.cloud.netflix.turbine.stream.TurbineStreamConfig
uration.turbineController(TurbineStreamConfiguration.java:48) ~[spring-clou
d-netflix-turbine-stream-2.0.0.RELEASE.jar:2.0.0.RELEASE]
    at org.springframework.cloud.netflix.turbine.stream.TurbineStreamConfig
uration$$EnhancerBySpringCGLIB$$927ee1c6.CGLIB$turbineController$1(<generat
ed>) ~[spring-cloud-netflix-turbine-stream-2.0.0.RELEASE.jar:2.0.0.RELEASE]
    at org.springframework.cloud.netflix.turbine.stream.TurbineStreamConfig
uration$$EnhancerBySpringCGLIB$$927ee1c6$$FastClassBySpringCGLIB$$f964cfc5...
nvoke(<generated>) ~[spring-cloud-netflix-turbine-stream-
2.0.0.RELEASE.jar:2.0.0.RELEASE]
org.springframework.cglib.proxy.MethodProxy.invokeSuper(MethodProxy.java:22
8) ~[spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
```

```
at org.springframework.context.annotation.ConfigurationClassEnhancer$Be
anMethodInterceptor.intercept(ConfigurationClassEnhancer.java:361) ~
[spring-context-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.cloud.netflix.turbine.stream.TurbineStreamConfig
uration$$EnhancerBySpringCGLIB$$927ee1c6.turbineController(<generated>) ~[s
pring-cloud-netflix-turbine-stream-2.0.0 RELEASE.jar:2.0.0 RELEASE]
   at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) ~
[na:1.8.0_162]
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:6
2) ~[na:1.8.0_162]
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcce
ssorImpl.java:43) ~[na:1.8.0_162]
    at java.lang.reflect.Method.invoke(Method.java:498) ~[na:1.8.0_162]
    at org.springframework.beans.factory.support.SimpleInstantiationStrateg
y.instantiate(SimpleInstantiationStrategy.java:154) ~[spring-beans-5.0.7.RE
LEASE.jar:5.0.7.RELEASE]
    ... 19 common frames omitted
55 Caused by: java.lang.NoClassDefFoundError: com/netflix/turbine/aggregato
r/InstanceKey
   ... 31 common frames omitted
57 Caused by: java.lang.ClassNotFoundException: com.netflix.turbine.aggrega
tor.InstanceKey
at java.net.URLClassLoader.findClass(URLClassLoader.java:381) ~[na:1.8.
0 162]
    at java.lang.ClassLoader.loadClass(ClassLoader.java:424) ~
[na:1.8.0_162]
60 at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:338) ~
[na:1.8.0 162]
    at java.lang.ClassLoader.loadClass(ClassLoader.java:357) ~
[na:1.8.0 162]
   ... 31 common frames omitted
```

解决方案:

修改pom引用,保证jar包库中,com.netflix.turbine:turbine-core版本为 2.0.0-DP.2即可

还会有如下错:

```
1 SLF4J: Class path contains multiple SLF4J bindings.
2 SLF4J: Found binding in [jar:file:/F:/maven-dependencies/ch/qos/logback/logback-classic/1.2.3/logback-classic-1.2.3.jar!/org/slf4j/impl/StaticLoggerBinder.class]
3 SLF4J: Found binding in [jar:file:/F:/maven-dependencies/org/slf4j/slf4j-simple/1.7.25/slf4j-simple-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]
```

```
4 SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an expla
nation.
5 SLF4J: Actual binding is of type [ch.qos.logback.classic.util.ContextSele
ctorStaticBinder]
```

在maven依赖中添加排除即可

最终项目引用如下即可: (最完整版)

```
1 <!-- 保证有turbine.app-config和turbine.cluster-name-expression配置 -->
2 <dependency>
  <groupId>org.springframework.cloud</groupId>
 <artifactId>spring-cloud-starter-turbine</artifactId>
  <version>1.4.4.RELEASE
 <exclusions>
  <exclusion>
  <groupId>com.netflix.eureka/groupId>
  <artifactId>eureka-core</artifactId>
10 </exclusion>
11 <exclusion>
   <groupId>com.netflix.eureka/groupId>
12
   <artifactId>eureka-client</artifactId>
13
14 </exclusion>
15 </exclusions>
16 </dependency>
17 <!-- Spring Cloud的RabbitMQ的实现,实际上包装了spring-cloud-stater-
turbine-stream和spring-cloud-starter-stream-rabbitmg -->
18 <dependency>
    <groupId>org.springframework.cloud
19
   <artifactId>spring-cloud-starter-turbine-amqp</artifactId>
20
   <version>1.4.4.RELEASE
21
   <exclusions>
22
   <exclusion>
    <groupId>com.netflix.eureka/groupId>
24
    <artifactId>eureka-core</artifactId>
   </exclusion>
26
    <exclusion>
27
    <groupId>com.netflix.eureka/groupId>
28
    <artifactId>eureka-client</artifactId>
29
   </exclusion>
30
   </exclusions>
31
32 </dependency>
```

```
33 <!-- 加入此依赖,避免 Caused by: java.lang.ClassNotFoundException: com.net
flix.turbine.aggregator.InstanceKey -->
34 <dependency>
    <groupId>com.netflix.turbine
    <artifactId>turbine-core</artifactId>
36
    <version>2.0.0-DP.2
    <!-- 避免 SLF4J: Class path contains multiple SLF4J bindings。-->
38
    <exclusions>
39
    <exclusion>
40
    <groupId>org.slf4j/groupId>
41
    <artifactId>slf4j-simple</artifactId>
42
   </exclusion>
43
   </exclusions>
45 </dependency>
```

再次启动,报错如下:

这次是跟rabbitMQ链接有关

```
1 2019-01-23 16:10:17.964 WARN 19608 --- [on(8)-127.0.0.1] o.s.b.a.amqp.Rab
bitHealthIndicator : Rabbit health check failed
3 org.springframework.amqp.AmqpIOException: java.io.IOException
4 at org.springframework.amqp.rabbit.support.RabbitExceptionTranslator.com
vertRabbitAccessException(RabbitExceptionTranslator.java:71) ~[spring-rabbi
t-2.0.4.RELEASE.jar:2.0.4.RELEASE]
org.springframework.amqp.rabbit.connection.AbstractConnectionFactory.create
BareConnection(AbstractConnectionFactory.java:476) ~[spring-rabbit-2.0.4.RE
LEASE jar: 2.0.4 RELEASE
   at org.springframework.amqp.rabbit.connection.CachingConnectionFactory.c
reateConnection(CachingConnectionFactory.java:614) ~[spring-rabbit-2.0.4.RE
LEASE.jar:2.0.4.RELEASE]
   at org.springframework.amqp.rabbit.connection.ConnectionFactoryUtils.cre
ateConnection(ConnectionFactoryUtils.java:240) ~[spring-rabbit-2.0.4.RELEAS
E.jar:2.0.4.RELEASE]
8 at org.springframework.amqp.rabbit.core.RabbitTemplate.doExecute(RabbitT
emplate.java:1797) ~[spring-rabbit-2.0.4.RELEASE.jar:2.0.4.RELEASE]
   at org.springframework.amqp.rabbit.core.RabbitTemplate.execute(RabbitTem
plate java:1771) ~[spring-rabbit-2.0.4.RELEASE.jar:2.0.4.RELEASE]
    at org.springframework.amqp.rabbit.core.RabbitTemplate.execute(RabbitTe
mplate.java:1752) ~[spring-rabbit-2.0.4.RELEASE.jar:2.0.4.RELEASE]
    at org.springframework.boot.actuate.amqp.RabbitHealthIndicator.getVersi
on(RabbitHealthIndicator.java:48) ~[spring-boot-actuator-
2.0.3 RELEASE jar: 2.0.3 RELEASE
```

```
at org.springframework.boot.actuate.amqp.RabbitHealthIndicator.doHealth
Check(RabbitHealthIndicator.java:44) ~[spring-boot-actuator-2.0.3.RELEASE.j
ar:2.0.3.RELEASE
  at org.springframework.boot.actuate.health.AbstractHealthIndicator.heal
th(AbstractHealthIndicator.java:84) ~[spring-boot-actuator-2.0.3.RELEASE.ja
r:2.0.3.RELEASE]
14 at org.springframework.boot.actuate.health.CompositeHealthIndicator.hea
lth(CompositeHealthIndicator.java:68) [spring-boot-actuator-2.0.3.RELEASE.j
ar:2.0.3.RELEASE
  at org.springframework.boot.actuate.health.HealthEndpoint.health(Health
Endpoint.java:47) [spring-boot-actuator-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) ~
[na:1.8.0_162]
   at
17
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:6
2) ~[na:1.8.0 162]
   at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcce
ssorImpl.java:43) ~[na:1.8.0_162]
   at java.lang.reflect.Method.invoke(Method.java:498) ~[na:1.8.0_162]
   at org.springframework.util.ReflectionUtils.invokeMethod(ReflectionUtil
s.java:223) [spring-core-5.0.7.RELEASE.jar:5.0.7.RELEASE]
    at org.springframework.boot.actuate.endpoint.invoke.reflect.ReflectiveO
perationInvoker.invoke(ReflectiveOperationInvoker.java:76) [spring-boot-act
uator-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.actuate.endpoint.annotation.AbstractDiscove
redOperation.invoke(AbstractDiscoveredOperation.java:61) [spring-boot-actua
tor-2.0.3.RELEASE.jar:2.0.3.RELEASE]
    at org.springframework.boot.actuate.endpoint.jmx.EndpointMBean.invoke(E
ndpointMBean.java:126) [spring-boot-actuator-2.0.3.RELEASE.jar:2.0.3.RELEAS
E]
    at org.springframework.boot.actuate.endpoint.jmx.EndpointMBean.invoke(E
ndpointMBean.java:99) [spring-boot-actuator-
2.0.3 RELEASE jar: 2.0.3 RELEASE
    at com.sun.jmx.interceptor.DefaultMBeanServerInterceptor.invoke(Default
MBeanServerInterceptor.java:819) [na:1.8.0_162]
   at com.sun.jmx.mbeanserver.JmxMBeanServer.invoke(JmxMBeanServer.java:80
1) [na:1.8.0_162]
    at javax.management.remote.rmi.RMIConnectionImpl.doOperation(RMIConnect
ionImpl.java:1468) [na:1.8.0 162]
   at javax.management.remote.rmi.RMIConnectionImpl.access$300(RMIConnecti
onImpl.java:76) [na:1.8.0_162]
    at javax.management.remote.rmi.RMIConnectionImpl$PrivilegedOperation.ru
n(RMIConnectionImpl.java:1309) [na:1.8.0 162]
javax.management.remote.rmi.RMIConnectionImpl.doPrivilegedOperation(RMIConn
ectionImpl.java:1401) [na:1.8.0 162]
```

```
at javax.management.remote.rmi.RMIConnectionImpl.invoke(RMIConnectionIm
pl.java:829) [na:1.8.0 162]
32 at sun.reflect.GeneratedMethodAccessor91.invoke(Unknown Source) ~
[na:na]
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAcce
ssorImpl.java:43) ~[na:1.8.0_162]
    at java.lang.reflect.Method.invoke(Method.java:498) ~[na:1.8.0_162]
34
   at sun.rmi.server.UnicastServerRef.dispatch(UnicastServerRef.java:361)
[na:1.8.0_162]
   at sun.rmi.transport.Transport$1.run(Transport.java:200) [na:1.8.0_162]
    at sun.rmi.transport.Transport$1.run(Transport.java:197) [na:1.8.0_162]
   at java.security.AccessController.doPrivileged(Native Method)
[na:1.8.0_162]
39 at sun.rmi.transport.Transport.serviceCall(Transport.java:196) [na:1.8.
0_162]
   at
40
sun.rmi.transport.tcp.TCPTransport.handleMessages(TCPTransport.java:568) [n
a:1.8.0_162]
41 at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run@(TCPTranspo
rt.java:826) [na:1.8.0_162]
    at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.lambda$run$0(TC
PTransport.java:683) [na:1.8.0_162]
   at java.security.AccessController.doPrivileged(Native Method)
[na:1.8.0_162]
44 at sun.rmi.transport.tcp.TCPTransport$ConnectionHandler.run(TCPTranspor
t.java:682) [na:1.8.0_162]
   at
45
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1
149) ~[na:1.8.0_162]
   at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecuto
r.java:624) ~[na:1.8.0_162]
  at java.lang.Thread.run(Thread.java:748) ~[na:1.8.0 162]
48 Caused by: java.io.IOException: null
   at com.rabbitmq.client.impl.AMQChannel.wrap(AMQChannel.java:126) ~
[amqp-client-5.1.2.jar:5.1.2]
50 at com.rabbitmq.client.impl.AMQChannel.wrap(AMQChannel.java:122) ~
[amqp-client-5.1.2.jar:5.1.2]
at com.rabbitmq.client.impl.AMQChannel.exnWrappingRpc(AMQChannel.java:1
44) ~[amqp-client-5.1.2.jar:5.1.2]
52 at com.rabbitmq.client.impl.AMQConnection.start(AMQConnection.java:390)
~[amqp-client-5.1.2.jar:5.1.2]
    at com.rabbitmq.client.ConnectionFactory.newConnection(ConnectionFactor
y.java:957) ~[amqp-client-5.1.2.jar:5.1.2]
   at com.rabbitmq.client.ConnectionFactory.newConnection(ConnectionFactor
y.java:907) ~[amqp-client-5.1.2.jar:5.1.2]
```

```
at com.rabbitmq.client.ConnectionFactory.newConnection(ConnectionFactor
v.java:847) ~[amgp-client-5.1.2.jar:5.1.2]
\verb|org.springframework.amqp.rabbit.connection.AbstractConnectionFactory.create|\\
BareConnection(AbstractConnectionFactory.java:449) ~[spring-rabbit-2.0.4.RE
LEASE jar: 2.0.4 RELEASE]
   ... 42 common frames omitted
58 Caused by: com.rabbitmq.client.ShutdownSignalException: connection
error; protocol method: #method<connection.close>(reply-code=530, reply-tex
t=NOT_ALLOWED - access to vhost '/' refused for user 'geekerx', class-
id=10, method-id=40)
com.rabbitmq.utility.ValueOrException.getValue(ValueOrException.java:66) ~
[amqp-client-5.1.2.jar:5.1.2]
    at com.rabbitmq.utility.BlockingValueOrException.uninterruptibleGetValu
e(BlockingValueOrException.java:36) ~[amqp-client-5.1.2.jar:5.1.2]
61
com.rabbitmq.client.impl.AMQChannel$BlockingRpcContinuation.getReply(AMQCha
nnel.java:494) ~[amqp-client-5.1.2.jar:5.1.2]
    at com.rabbitmq.client.impl.AMQChannel.privateRpc(AMQChannel.java:288)
~[amqp-client-5.1.2.jar:5.1.2]
   at com.rabbitmq.client.impl.AMQChannel.exnWrappingRpc(AMQChannel.java:1
38) ~[amqp-client-5.1.2.jar:5.1.2]
   ... 47 common frames omitted
```

关键内容:

```
1 reply-text=NOT ALLOWED - access to vhost '/' refused for user 'geekerx'
```

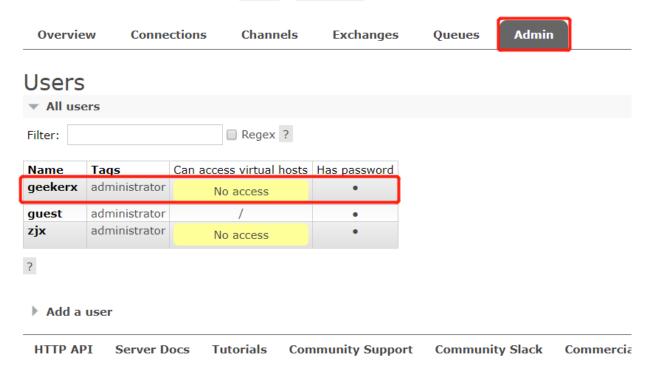
解决方案:

看到rabbitMQ管理界面, geekerx用户没有虚拟路径的权限

参考:

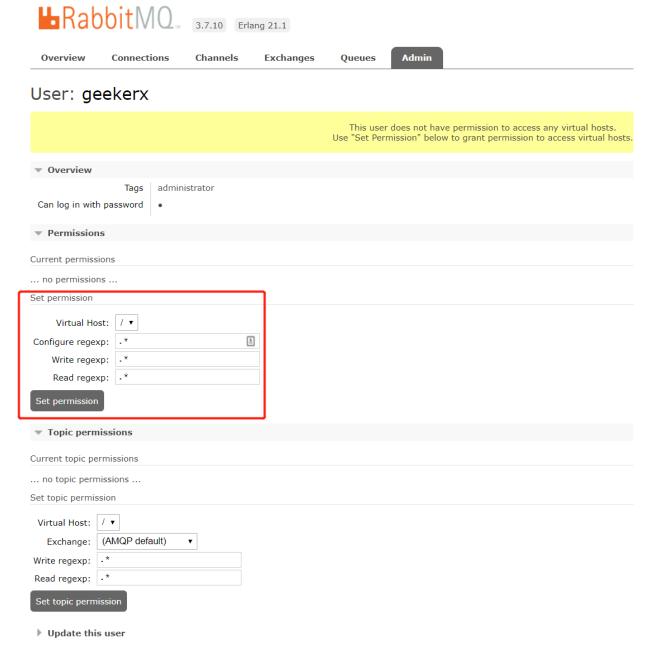
https://blog.csdn.net/luwei42768/article/details/53730960





点击geekerx用户名,进入用户设置界面

直接根据默认配置,点击"Set permission"



保证Current permissions下面有值即可



Overview Connections Channels Exchanges Queues **Admin** User: geekerx Overview administrator Tags Can log in with password Permissions Current permissions Virtual host | Configure regexp | Write regexp | Read regexp Clear Set permission Virtual Host: / ▼ Configure regexp: .* Write regexp: Read regexp: Set permission Topic permissions Current topic permissions ... no topic permissions ... Set topic permission Virtual Host: / ▼ Exchange: (AMQP default) Write regexp: Read regexp: Set topic permission

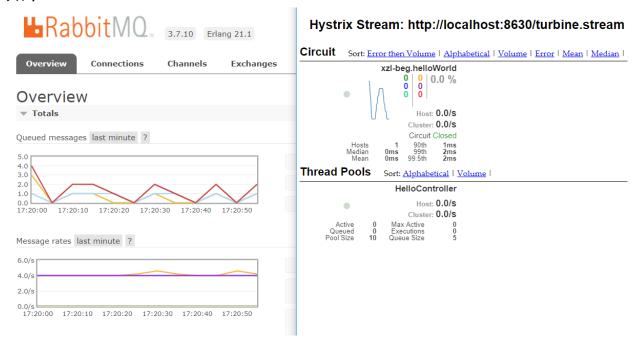
设置完用户权限后,再次启动则启动成功!

接下来运行时, turbine会报错 (但是没有复现):

```
1 2019-01-23 16:51:49.383 ERROR 20828 --- [ctor-http-nio-3] o.s.w.s.adapter.HttpWebHandlerAdapter : Unhandled failure: 你的主机中的软件中止了一个已建立的连接。, response already set (status=null)
```

2 2019-01-23 16:51:49.384 WARN 20828 --- [ctor-http-nio-3] o.s.h.s.r.ReactorHttpHandlerAdapter: Handling completed with error: 你的主机中的软件中止了一个已建立的连接。

多次请求 http://localhost:8700/hello 后, rabbitMQ和dashboard监控情况如下



beg服务日志:

```
1 2019-01-23 16:59:57.097 INFO [zipkin-beg,,,] 15144 --- [ask-scheduler-2]
o.s.a.r.c.CachingConnectionFactory : Attempting to connect to:
[192.168.100.150:5672]
2 2019-01-23 16:59:57.102 INFO [zipkin-beg,,,] 15144 --- [ask-scheduler-2]
o.s.a.r.c.CachingConnectionFactory : Created new connection: rabbitConnectionFactory.publisher#23240e35:0/SimpleConnection@64151b26 [delegate=amqp://geekerx@192.168.100.150:5672/, localPort= 51927]
```

八 zuul代理其他微服务

1.配置

①maven依赖

ignore-security-headers: false # 转发后请求的服务是否还带上转发表示字符 strip-prefix: false 8 # 如果路由是通过URL指定的,那么需要配置zuul.host.connect-timeout-millis和zuu 1.host.socket-timeout-millis 9 # host: 10 # connect-timeout-millis: 20000 # socket-timeout-millis: 20000 # 不忽略任何头部信息,所有header都转发到下游的资源服务器 # 所以这里对制定的路由开启自定义敏感头。除了设置为true,也可以设置为空。 zuul.sensitiveHeaders= 只是全局设置的做法。不推荐! 破坏了默认设置的用意 14 # sensitive-headers: 15 routes: # 所有以/config开头的请求都转发到xzl-config应用中 16 17 xzl-config: path: /config/** 18 serviceId: xzl-config sensitiveHeaders: true xzl-turbine: 21 path: /turbine/** 22 serviceId: xzl-turbine 23 xzl-hystrix-dashboard: 24 path: /dashboard/** 25 serviceId: xzl-hystrix-dashboard 27 xzl-beg: path: /beg/** 28 serviceId: xzl-beg 29 30 # springcloud项目中经过网关zuul转发请求后发生session失效问题,这是由于zuul默 认会丢弃原来的session并生成新的session

31 sensitiveHeaders: true

其中几个参数强调解释一下:

①zuul.ignore-security-headers=false

不忽略框架与权限相关的头信息,保证各服务在代理后头部保存的session、token等信息完整。

2zuul.strip-prefix=false

转发后请求的服务是否还带上转发表示字符。

具体如下,原始的url是https://zuullp:zuulPort/demo/hello,

如果这个参数设置为true,那么对于Demo1的服务而言,它受到的请求url就是https://demolp:demoPort/hello

如果这个参数设置为false,那么对于Demo1的服务而言,它受到的请求url就是https://demolp:demoPort/demo/hello

③zuul.routes.xzl-config.sensitiveHeaders=true

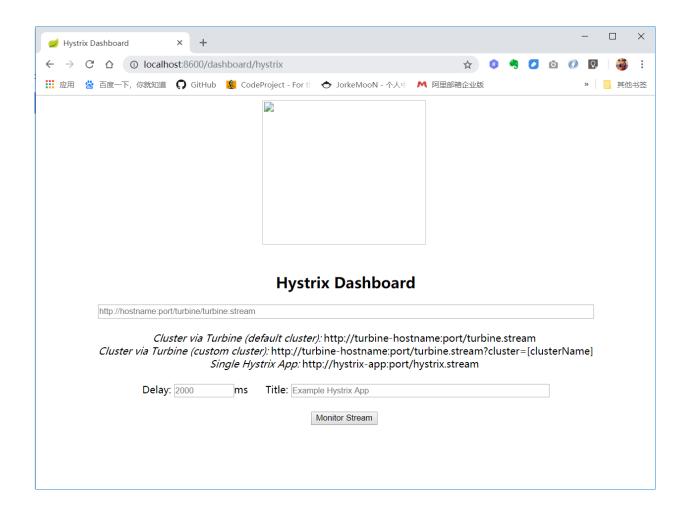
不忽略任何头部信息,所有header都转发到下游的资源服务器。所以这里对制定的路由开启自定义敏感头。除了设置为true,也可以设置为空。

zuul.sensitiveHeaders= 只是全局设置的做法。不推荐! 破坏了默认设置的用意。

2.静态资源问题

zuul代理其他微服务时出现了一个问题:

代理其他微服务 (beg、config、turbine) 都没问题,但是代理hystrix dashboard会出现下图静态资源丢失,且[Monitor Stream]按钮无效的问题



S GET http://localhost:8600/hystrix/images/hystrix-logo.png 404

LOGO静态图片原路径为: http://localhost:8630/hystrix/images/hystrix-logo.png

代理后路径为: http://localhost:8600/hystrix/images/hystrix-logo.png

仅仅更换了端口号, 代理后的地址是没资源的

代理后正确的资源路径应该为:

http://localhost:8600/dashboard/hystrix/images/hystrix-logo.png

由此,可以引申出zuul对于代理静态资源的一些弊端,另起一篇

-> Zuul VS Nginx.note

所以,这里不再使用zuul代理hystrix dashboard这类包含静态资源的微服务。

3.跨域问题

正常情况下, 跨域是这样的:

1. 微服务配置跨域+zuul不配置=有跨域问题

- 2. 微服务配置+zuul配置=有跨域问题
- 3. 微服务不配置+zuul不配置=有跨域问题
- 4. 微服务不配置+zuul配置=ok

然而每个服务自己有跨域解决方案,而网关需要做最外层的跨域解决方案。如果服务已有跨域配置网关也有,会出现*多次配置问题。

```
1 Access-Control-Allow-Origin:"*,*"
2 也就是multiple Access-Control-Allow-Origin
```

参考:

https://blog.csdn.net/moshowgame/article/details/80507696

在测试环境部署的zuul,在本地启动的beg跪求业务项目,通过zuul访问代理的beg服务会报500错误

```
1 {
2  "timestamp": "2019-01-24T09:12:51.997+0000",
3  "status": 500,
4  "error": "Internal Server Error",
5  "message": "GENERAL"
6 }
```

将beg服务部署到zuul同一个主机上就没有问题

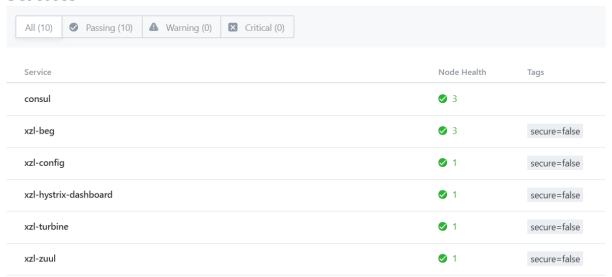
这是哪块的跨域问题呢?

九 部署到测试环境

整体都配置完毕后,将所有服务都打成jar包,部署到测试环境中 打jar包注意事项移步 -> <u>打Jar包部署细节.note</u>

微服务部署情况如下:

Services



这里xzl-beg跪求更换端口部署3个微服务,组建成xzl-beg集群服务 consul注册服务和zuul网关服务会自动实现负载均衡 请求xzl-beg服务默认会实现**轮询机制**

示例:

连续请求三次 http://192.168.100.150:8700/beg/hello 返回结果分别为:

1 Hello World!
2 端口号: 8810

1 Hello World!
2 端口号: 8811