

文档名称 文档密级

Day9 CSE实战之服务治理

1 打卡任务

作业:

1、在服务治理页面配置provider对consumer服务限流,通过edge分别调用consumer和 provider,观察效果

打卡:

1、截图consumer调用provider时报429状态码的日志

打卡任务基于Day9的demo项目:



2 准备工作

1、正常运行Day9的demo

3 体验限流策略

1、启动edge、consumer、provider服务,通过edge调用consumer、provider成功



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"Hello Alice. Good afternoon."

2、在治理页面上配置provider服务对consumer服务限流,限制流量为3QPS

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3、通过edge连续调用consumer,观察consumer的日志



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```
2019-03-02 15:39:13,396 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:13,533 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:13,672 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:13,838 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:13,977 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:14,114 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02.15:39:14,257.[INFO].192.168.0.45.-.-.Sat, 02.Mar.2019.15:39:14.CST./consumer/vi
2019-03-02 15:39:14,403 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14,533 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14.686 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14,846 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14,975 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:15,103 [INFO] 192.168.0.45 - - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02.15:39:15,270.[INFO].192.168.0.45.-.-.Sat, 02.Mar.2019.15:39:15.CST./consumer/vi
2019-03-02.15:39:15,424.[INFO].192.168.0.45.-.-.Sat, 02.Mar.2019.15:39:15.CST./consumer/vi
2019-03-02 15:39:15,572 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02 15:39:15,725 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02 15:39:15,857 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/v
2019-03-02 15:39:15,997 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02.15:39:16,163.[INFO].192.168.0.45.-.-.Sat, 02.Mar.2019.15:39:16.CST./consumer/vi
2019-03-02.15:39:16,309.[INFO].192.168.0.45.-.-.Sat, 02.Mar.2019.15:39:16.CST./consumer/vi
2019-03-02 15:39:16,443 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,613 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,765 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,914 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:17,070 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:17 CST /consumer/vi
通过日志可以看出每秒钟只能有三次请求成功,其他调用都会返回429 Too Many
```

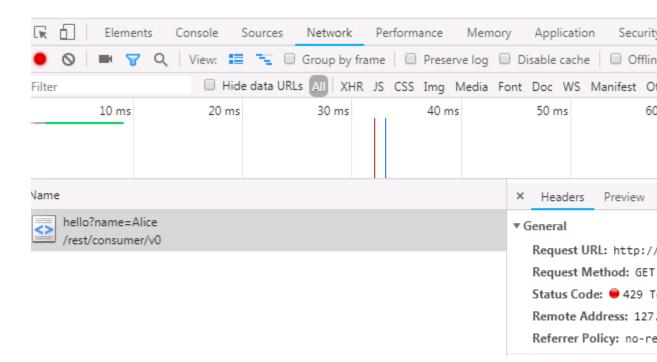
Requests错误



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{"message": "rejected by qps flowcontrol"}



4、通过edge连续调用provider,观察edge的日志



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```
2019-03-02 15:46:17,909 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:17 CST /rest/provider
2019-03-02.15:46:18,071.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:18.CST./rest/provider
2019-03-02.15:46:18,247.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:18.CST./rest/provider
2019-03-02.15:46:18,417.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:18.CST./rest/provider
2019-03-02 15:46:18,608 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:18 CST /rest/provider
2019-03-02 15:46:18,805 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:18 CST /rest/provider
2019-03-02 15:46:18,962 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:18 CST /rest/provider
2019-03-02 15:46:19,122 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:19 CST /rest/provider
2019-03-02.15:46:19,307.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:19.CST./rest/provider
2019-03-02.15:46:19,464.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:19.CST./rest/provider
2019-03-02 15:46:19,656 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:19 CST /rest/provider
2019-03-02 15:46:19,853 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:19 CST /rest/provider
2019-03-02 15:46:20,014 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:20 CST /rest/provider
2019-03-02 15:46:20,217 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:20 CST /rest/provider
2019-03-02 15:46:20,414 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:20 CST /rest/provider
2019-03-02.15:46:20,588.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:20.CST./rest/provider
2019-03-02 15:46:20,752 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:20 CST /rest/provider
2019-03-02 15:46:20,920 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:20 CST /rest/provider
2019-03-02 15:46:21,108 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:21 CST /rest/provider
2019-03-02 15:46:21,274 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:21 CST /rest/provider
2019-03-02 15:46:21,457 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:21 CST /rest/provider
2019-03-02 15:46:21,639 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:21 CST /rest/provider
2019-03-02.15:46:21,809.[INFO].127.0.0.1.-.-.Sat, 02.Mar.2019.15:46:21.CST./rest/provider
2019-03-02 15:46:21,970 [INFO] 127.0.0.1 - - Sat, 02 Mar 2019 15:46:21 CST /rest/provider
```

从以上日志可以看出通过edge直接调用provider时,即使流量大于3QPS也不会触发

限流,说明我们在治理页面配置的provider服务限流策略只对consumer生效,不对edge起作用。

4 打卡截图

1、Consumer服务的日志展示的限流策略效果如下图:



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2019-03-02 15:39:13,838 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
2019-03-02 15:39:13,977 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:13 CST /consumer/vi
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2019-03-02 15:39:14,403 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14,533 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14.686 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
2019-03-02 15:39:14,846 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:14 CST /consumer/vi
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2019-03-02 15:39:15,572 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02 15:39:15,725 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
2019-03-02 15:39:15,857 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/v
2019-03-02 15:39:15,997 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:15 CST /consumer/vi
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2019-03-02 15:39:16,443 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,613 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,765 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:16,914 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:16 CST /consumer/vi
2019-03-02 15:39:17,070 [INFO] 192.168.0.45 - - Sat, 02 Mar 2019 15:39:17 CST /consumer/vi
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