


20220428 APOLLO - 连接数太多(50x 错误)排查

问题描述

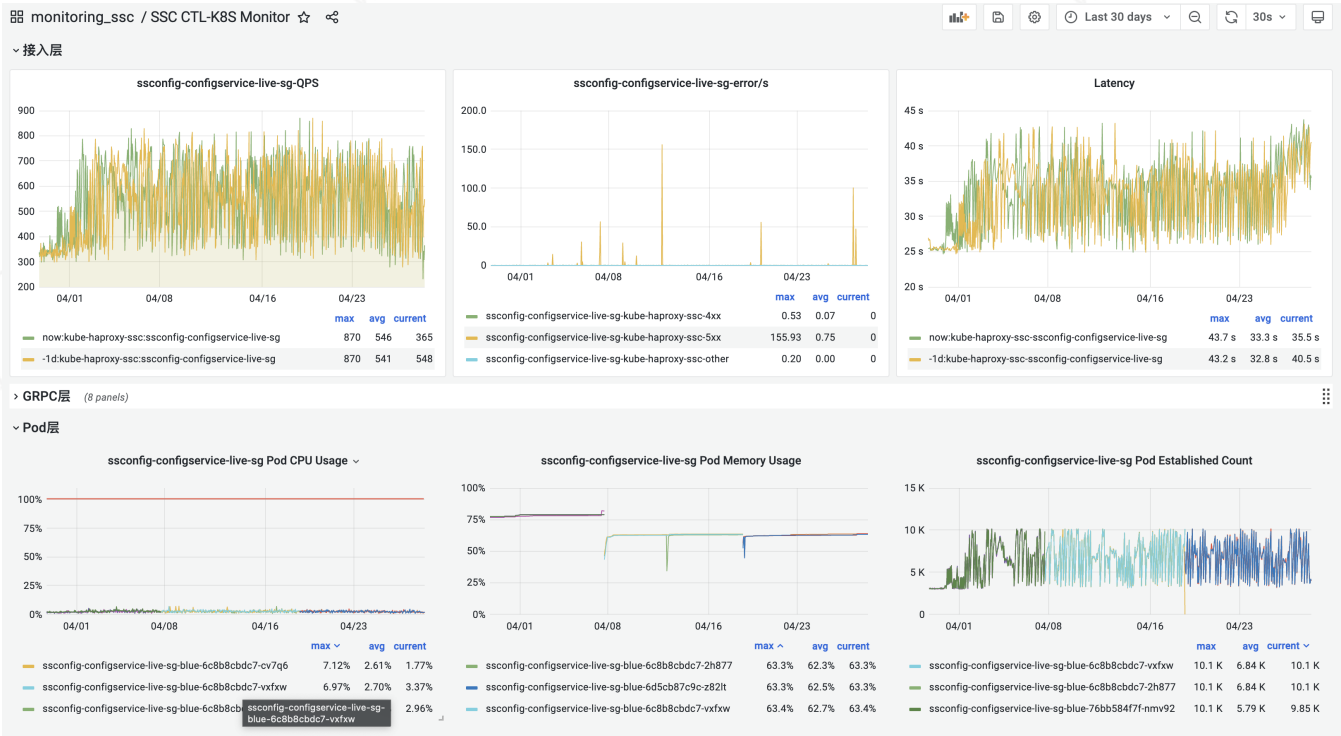
2022年4月份经常收到5xx error的告警（下图告警有误，其实不是百分比，而是error 每秒的数量）

 cat_bot 系统消息

[error] 2:38PM ssconfig-ssconfig-configservice-live-sg
5xx error 达到29.22% [View detail][https://i.shp.ee/hrkr
yn9](https://i.shp.ee/hrkr
yn9)

14:39

查看监控可以看到qps从3月30日开始升高，且连接数很高，经常把3台机器（每台机器连接上限是10000）都打满



https://monitoring.infra.sz.shopee.io/grafana/d/RByjXBMqw/ssc-ctl-k8s-monitor?orgId=1&refresh=30s&var-datasource=k8s-general-ctl-live&var-group=Supply-Chain-Group&var-project=ssconfig&var-module=ssconfig-configservice&var-env=live&var-cid=sg&var-Group=Supply%20Chain%20Group&var-Group_id=groups%2F10&var-Project_id=projects%2F89&var-mysql=All&var-master=All&var-module_for_log=configservice&from=now-6h&to=no

排查过程

20220427 18点通过抓包拿到3分钟请求数据



apollo1.tar.gz



apollo2.tar.gz



apollo3.tar.gz

由于k8s服务的请求均会经过ha，通过netstat看到连接都是连接到ha的，无法看出来源ip，因此通过抓包中的headers来获取来源ip，可以看到大部分请求来自143.92.127.233，经排查是sgw网关的ip，线索不够直接

```
>> strings apollo*.pacp |grep -i "x-forwarded-for: " | awk -F': ' '{print $2}'|sort|uniq -c|sort -rn|head -20
>>
20770 143.92.127.233
8964 103.114.192.135
924 10.131.91.146
919 10.131.91.148
877 10.131.76.2
875 10.131.91.49
855 10.131.91.76
854 10.131.91.52
852 10.131.91.43
850 10.131.91.44
849 10.131.91.83
843 10.131.91.80
841 10.131.91.45
839 34.72.3.141
838 10.131.76.34
837 143.92.127.232
836 10.131.75.194
834 10.131.91.145
828 10.131.91.81
822 10.131.91.75
```

又对主要的请求url进行过滤，发现来自这个ip的请求均为lfs-api

```
>> strings apollo*.pacp |grep -i -B5 "x-forwarded-for: 143.92.127.233"|grep "GET /notifications/v2"|sort|uniq -c|sort -r|head -20
1270 GET /notifications/v2?appId=lfs-api&cluster=ar&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27874%7D%5D HTTP/1.1
1263 GET /notifications/v2?appId=lfs-api&cluster=br&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27878%7D%5D HTTP/1.1
1262 GET /notifications/v2?appId=lfs-api&cluster=cl&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A30227%7D%5D HTTP/1.1
1257 GET /notifications/v2?appId=lfs-api&cluster=pl&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27875%7D%5D HTTP/1.1
1257 GET /notifications/v2?appId=lfs-api&cluster=es&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27877%7D%5D HTTP/1.1
1256 GET /notifications/v2?appId=lfs-api&cluster=br&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A28616%7D%5D HTTP/1.1
1249 GET /notifications/v2?appId=lfs-api&cluster=ph&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27869%7D%5D HTTP/1.1
1243 GET /notifications/v2?appId=lfs-api&cluster=co&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A30486%7D%5D HTTP/1.1
1242 GET /notifications/v2?appId=lfs-api&cluster=sg&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27871%7D%5D HTTP/1.1
1242 GET /notifications/v2?appId=lfs-api&cluster=id&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27870%7D%5D HTTP/1.1
1241 GET /notifications/v2?appId=lfs-api&cluster=my&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A31048%7D%5D HTTP/1.1
1239 GET /notifications/v2?appId=lfs-api&cluster=vn&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A31061%7D%5D HTTP/1.1
1236 GET /notifications/v2?appId=lfs-api&cluster=fr&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27876%7D%5D HTTP/1.1
1231 GET /notifications/v2?appId=lfs-api&cluster=tw&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A27873%7D%5D HTTP/1.1
1229 GET /notifications/v2?appId=lfs-api&cluster=th&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A30994%7D%5D HTTP/1.1
1209 GET /notifications/v2?appId=lfs-api&cluster=mx&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A31046%7D%5D HTTP/1.1
17 GET /notifications/v2?appId=lfs-api&cluster=ar&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A-1%7D%5D HTTP/1.1
16 GET /notifications/v2?appId=lfs-api&cluster=mx&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A-1%7D%5D HTTP/1.1
15 GET /notifications/v2?appId=lfs-api&cluster=fr&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A-1%7D%5D HTTP/1.1
15 GET /notifications/v2?appId=lfs-api&cluster=cl&notifications=%5B%7B%22namespaceName%22%3A%
221ls_fulfillment_switch%22%2C%22notificationId%22%3A-1%7D%5D HTTP/1.1
```

另一个请求，这个请求带上了来源ip，这个ip经查询发现来自office，通过it部门找到了相关同事

```
>> strings apollo*.pacp |grep -i -B5 "x-forwarded-for: 143.92.127.233"|grep "GET /configs"|sort|uniq -c|sort -r|head -20
13 GET /configs/lfs-api/sg/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
12 GET /configs/lfs-api/vn/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
12 GET /configs/lfs-api/pl/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
12 GET /configs/lfs-api/ar/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/my/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/mx/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/in/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/fr/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/es/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/co/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/cl/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
10 GET /configs/lfs-api/br/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
9 GET /configs/lfs-api/tw/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
9 GET /configs/lfs-api/th/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
7 GET /configs/lfs-api/id/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
6 GET /configs/lfs-api/ph/lfs_fulfillment_switch?releaseKey=&ip=10.12.185.198 HTTP/1.1
```

目前lfs做了工具用于查询apollo的配置做一些功能，而工具轮询的频率和方式不太正确导致了问题，这里yajun.han帮忙做了修改，修改后请求和连接数都下降了很多



改完之后（14:30后）连接数下降了很多，qps也下降了，由于工具仍在轮询，请求和连接数仍然会周期性的上涨，目前的高峰时在15k，即每台5k

