External TCP Proxy Load Balancer enable Log-share

Tags

描述：

由于GCP SSL/TCP/UDP PROXY 不能直接在UI中启用，进而不能通过Logging 服务直接查看TCP（SSL） Proxy Load Balancer 的日志；同时游戏客户大部分是通过TCP Proxy LB 直接对外提供游戏服务；为了可以查看TCL Proxy lb log，可以通过如下方式启用Access log：

HTTP(S) Load Balancing request logging

Each HTTP(S) request that is evaluated against a Google Cloud Armor security policy is logged through Cloud Logging. The logs provide details such as the name of the applied security policy, the matching rule, and whether the rule was enforced. Request logging for new backend service resources is disabled by default. To ensure that Google Cloud Armor requests are logged, you must enable HTTP(S) logging for each backend service protected by a security policy.

For more information, see HTTP(S) Load Balancing logging and monitoring and Using request logging.

To view Google Cloud Armor logs, see Viewing logs.

External TCP Proxy Load Balancing and External SSL Proxy Load Balancing request logging

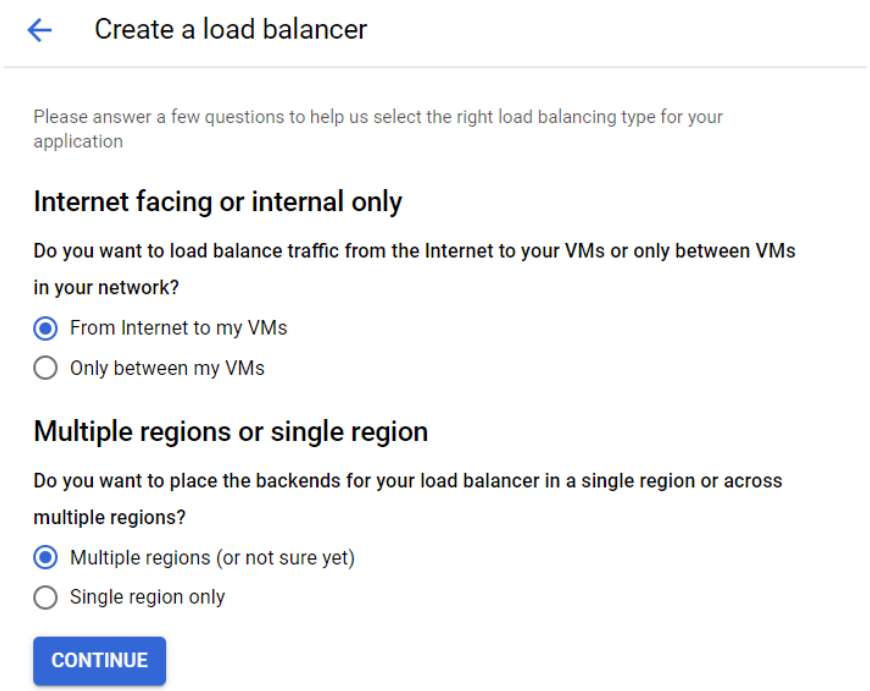
You can configure External TCP Proxy Load Balancing and External SSL Proxy Load Balancing logging using the Google Cloud CLI commands as listed in HTTP(S) Load Balancing logging and monitoring. You cannot enable logging for External TCP Proxy Load Balancing and External SSL Proxy Load Balancing using the Google Cloud console.

验证环境：

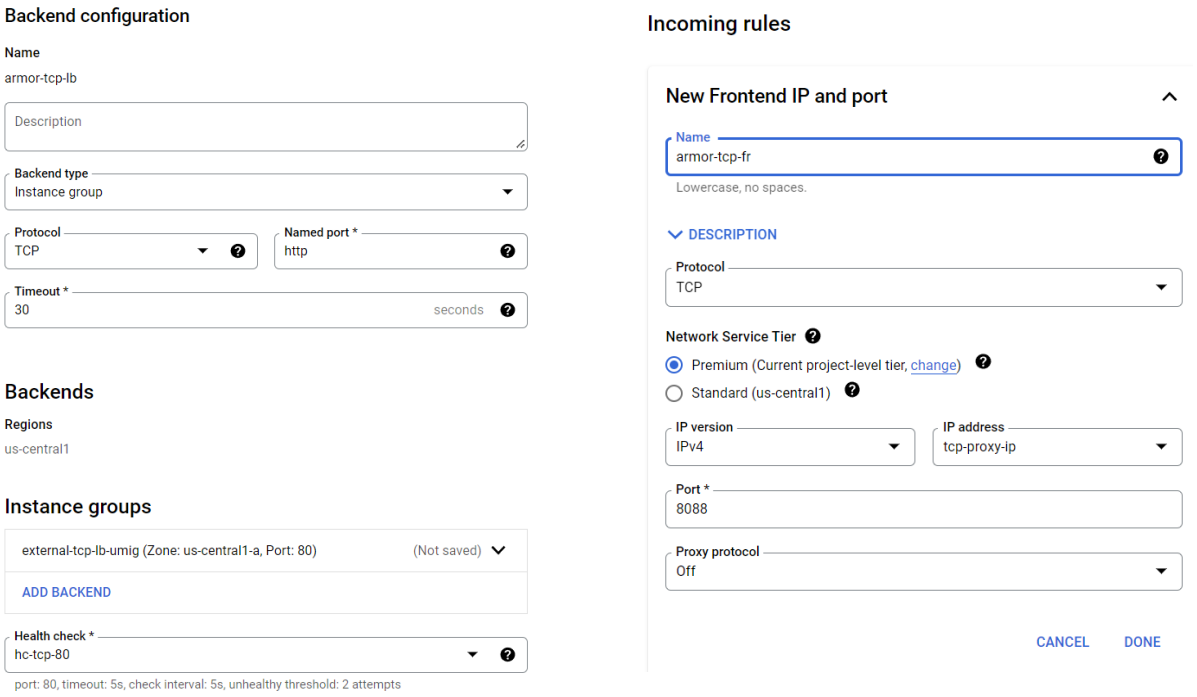
Chrome —》 TCP Proxy Load Balancer—>Backend-Service —>UMIG—>NGINX

实现步骤：

1、配置TCP proxy load Balancer:



2、配置后端与转发规则服务

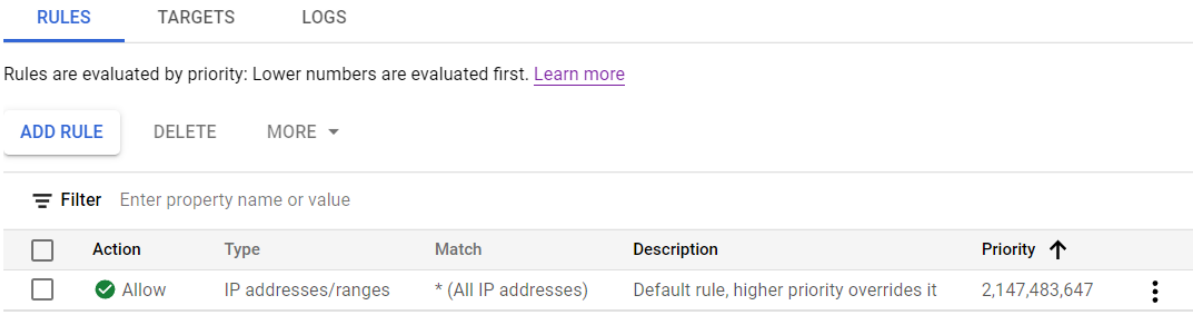


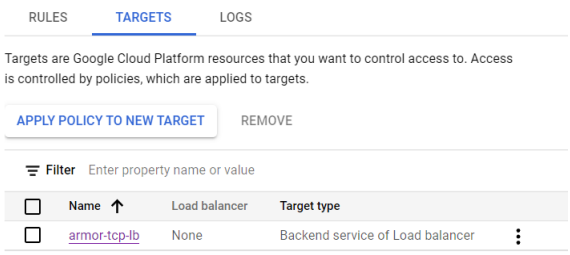
3、创建Backend Service 时启用TCP proxy LB 的logging 服务：

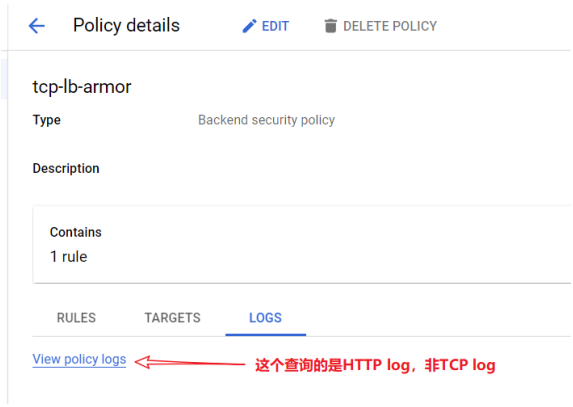
```
gcloud beta compute backend-services create armor-tcp-lb \
--global --load-balancing-scheme=EXTERNAL \
--health-checks=ssh22 --logging-sample-rate=1 \
--enable-logging --protocol=TCP
```

```
## 在已经创建的Backen-Service 上启用后端服务logging 服务
gcloud beta compute backend-services update armor-tcp-lb \
--enable-logging \
--logging-sample-rate=1
```

4、关联 Cloud Armor 规则到TCP Proxy Load balancer Backend Service :



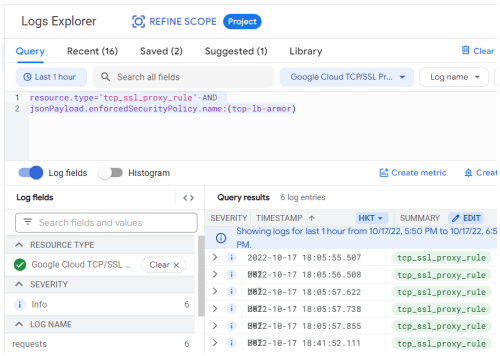


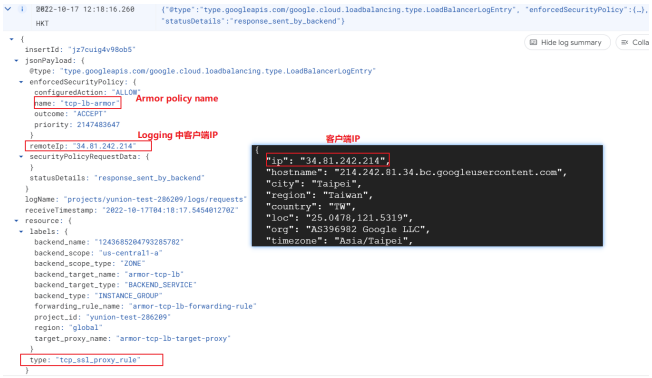


5、验证TCP proxy LB 日志：

Cloud Logging QL：

```
resource.type="tcp_ssl_proxy_rule" AND
jsonPayload.enforcedSecurityPolicy.name:(tcp-lb-armor) # Policy name
```


Logs Explorer
REFINE SCOPE
Project
Query
Recent (16)
Saved (2)
Suggested (1)
Library
Clear
Last 1 hour
Search all fields
Google Cloud TCP/SSL Pr...
Log name
1 resource.type="tcp_ssl_proxy_rule" AND
2 jsonPayload.enforcedSecurityPolicy.name:(tcp-lb-armor)
Log fields
Histogram
Create metric
Log fields
Search fields and values
RESOURCE TYPE
Google Cloud TCP/SSL ...
Clear
SEVERITY
Info 6
LOG NAME
requests 6
Query results 6 log entries
SEVERITY TIMESTAMP
HKT
SUMMARY
EDIT
Showing logs for last 1 hour from 10/17/22, 5:50 PM to 10/17/22, 6:5
PM.
2022-10-17 18:05:55.507 tcp_ssl_proxy_rule
2022-10-17 18:05:56.508 tcp_ssl_proxy_rule
2022-10-17 18:05:57.622 tcp_ssl_proxy_rule
2022-10-17 18:05:57.738 tcp_ssl_proxy_rule
2022-10-17 18:05:57.855 tcp_ssl_proxy_rule
2022-10-17 18:41:52.111 tcp_ssl_proxy_rule


2022-10-17 12:18:16.260
HKT
{"@type":"type.googleapis.com/google.cloud.loadbalancing.type.LoadBalancerLogEntry", "enforcedSecurityPolicy":{…},
"statusDetails":"response_sent_by_backend"}
Hide log summary
Colla
insertId: "jz7cuig4v98ob5"
jsonPayload: {
@type: "type.googleapis.com/google.cloud.loadbalancing.type.LoadBalancerLogEntry"
enforcedSecurityPolicy: {
configuredAction: "ALLOW"
name: "tcp-lb-armor"
outcome: "ACCEPT"
priority: 2147483647
}
remoteIp: "34.81.242.214"
securityPolicyRequestData: {
}
statusDetails: "response_sent_by_backend"
}
logName: "projects/yunion-test-286209/logs/requests"
receiveTimestamp: "2022-10-17T04:18:17.545401270Z"
resource: {
labels: {
backend_name: "1243685204793285702"
backend_scope: "us-central1-a"
backend_scope_type: "ZONE"
backend_target_name: "armor-tcp-lb"
backend_target_type: "BACKEND_SERVICE"
backend_type: "INSTANCE_GROUP"
forwarding_rule_name: "armor-tcp-lb-forwarding-rule"
project_id: "yunion-test-286209"
region: "global"
target_proxy_name: "armor-tcp-lb-target-proxy"
}
type: "tcp_ssl_proxy_rule"
}
Armor policy name
Logging 中客户端IP
客户端IP
{
"ip": "34.81.242.214",
"hostname": "214.242.81.34.bc.googleusercontent.com",
"city": "Taipei",
"region": "Taiwan",
"country": "TW",
"loc": "25.0478,121.5319",
"org": "AS396982 Google LLC",
"timezone": "Asia/Taipei",