

ALIBABA CLOUD

阿里云

负载均衡
监控报警

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格式	说明	样例
 危险	该类警示信息将导致系统重大变更甚至故障，或者导致人身伤害等结果。	 危险 重置操作将丢失用户配置数据。
 警告	该类警示信息可能会导致系统重大变更甚至故障，或者导致人身伤害等结果。	 警告 重启操作将导致业务中断，恢复业务时间约十分钟。
 注意	用于警示信息、补充说明等，是用户必须了解的内容。	 注意 权重设置为0，该服务器不会再接受新请求。
 说明	用于补充说明、最佳实践、窍门等，不是用户必须了解的内容。	 说明 您也可以通过按Ctrl+A选中全部文件。
>	多级菜单递进。	单击设置> 网络> 设置网络类型。
粗体	表示按键、菜单、页面名称等UI元素。	在结果确认页面，单击确定。
<code>Courier</code> 字体	命令或代码。	执行 <code>cd /d C:/window</code> 命令，进入Windows系统文件夹。
<i>斜体</i>	表示参数、变量。	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] 或者 [a b]	表示可选项，至多选择一个。	<code>ipconfig [-all -t]</code>
{ } 或者 {a b}	表示必选项，至多选择一个。	<code>switch {active stand}</code>

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1. 监控报警项说明

本文为您列举了负载均衡四层和七层协议主要监控项、监控指标和描述等相关说明。通过设置监控项的阈值，创建报警规则，触发报警。

注意事项

- OpenAPI支持查询最近31天的监控数据。
- Project为acs_slb_dashboard，采样周期为60s，Period赋值为60或60的整数倍。
- 参数中的Dimensions为JSON字符串，例如：`[{"instanceId":"lb-bp1r92vzpemy099f*****"}]`。

Dimensions中的instanceId为SLB实例的instanceId，port为SLB实例的端口，vip为SLB实例的服务地址。

四层协议监控指标

Metric	描述	单位	Dimensions	Statistics
HeathyServerCount	后端健康ECS实例个数。	Count	instanceId	Average、Minimum、Maximum
UnhealthyServerCount	后端异常ECS实例个数。	Count	instanceId	Average、Minimum、Maximum
PacketTX	端口每秒流出数据包数。	Count/Second	instanceId、port、vip	Average、Minimum、Maximum
PacketRX	端口每秒流入数据包数。	Count/Second	instanceId、port、vip	Average、Minimum、Maximum
TrafficRXNew	端口每秒流入数据量。	bit/s	instanceId、port、vip	Average、Minimum、Maximum
TrafficTXNew	端口每秒流出数据量。	bit/s	instanceId、port、vip	Average、Minimum、Maximum
ActiveConnection	端口当前活跃连接数，即客户端正在访问SLB产生的连接。 所有ESTABLISHED状态的TCP连接。如果您采用的是长连接的情况，一个连接会同时传输多个文件请求。	Count	instanceId、port、vip	Average、Minimum、Maximum

Metric	描述	单位	Dimensions	Statistics
InactiveConnection	<p>端口当前非活跃连接数，即访问SLB后未断开的空闲的连接。</p> <p>表示除ESTABLISHED状态的其它所有状态的TCP连接数。Windows和Linux服务器都可以使用 netstat -an 命令查看。</p>	Count	instanceId、port、vip	Average、Minimum、Maximum
NewConnection	在统计周期内，新建立的从客户端连接到负载均衡的连接请求的数量。	Count	instanceId、port、vip	Average、Minimum、Maximum
MaxConnection	所有建立的TCP连接数量。	Count	instanceId、port、vip	Average、Minimum、Maximum
DropConnection	监听每秒丢失连接数。	Count/Second	instanceId、port、vip	Average、Minimum、Maximum
DropPacketRX	监听每秒丢弃的流入数据包的数量。	Count/Second	instanceId、port、vip	Average、Minimum、Maximum
DropPacketTX	监听每秒丢失出包数。	Count/Second	instanceId、port、vip	Average、Minimum、Maximum
DropTrafficRX	每秒丢失的入流量。	bit/s	instanceId、port、vip	Average、Minimum、Maximum
DropTrafficTX	每秒丢失的出流量。	bit/s	instanceId、port、vip	Average、Minimum、Maximum
InstanceActiveConnection	实例每秒活跃连接数。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceDropConnection	实例每秒丢失连接数。	Count/Second	instanceId	Average、Minimum、Maximum

Metric	描述	单位	Dimensions	Statistics
InstanceDropPacketRX	实例每秒丢失入包数。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceDropPacketTX	实例每秒丢失出包数。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceDropTrafficRX	实例每秒丢失的入流量。	bit/s	instanceId	Average、Minimum、Maximum
InstanceDropTrafficTX	实例每秒丢失的出流量。	bit/s	instanceId	Average、Minimum、Maximum
InstanceInactiveConnection	实例每秒非活跃连接数。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceMaxConnection	实例每秒最大并发连接数。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceNewConnection	实例每秒新建连接数。	Count/Second	instanceId	Average、Minimum、Maximum
InstancePacketRX	负载均衡每秒接到的请求数据包数量。	Count/Second	instanceId	Average、Minimum、Maximum
InstancePacketTX	负载均衡每秒发出的数据包数量。	Count/Second	instanceId	Average、Minimum、Maximum
InstanceTrafficRX	从外部访问负载均衡所消耗的流量。	bit/s	instanceId	Average、Minimum、Maximum
InstanceTrafficTX	负载均衡访问外部所消耗的流量。	bit/s	instanceId	Average、Minimum、Maximum
InstanceMaxConnectionUtilization	最大连接数使用率。	%	instanceId	Average、Maximum、Minimum
InstanceNewConnectionUtilization	新建连接数使用率。	%	instanceId	Average、Maximum、Minimum

七层协议监控指标

Metric	描述	单位	Dimensions	Statistics
Qps	端口维度的QPS, 每秒可以处理的HTTP/HTTPS请求。	Count/Second	instanceId、port、vip	Average
Rt	端口维度的请求平均延时, 负载均衡的平均响应时间。	ms	instanceId、port、vip	Average
StatusCode2xx	端口维度的SLB返回给客户端的2xx状态码统计。	Count/Second	instanceId、port、vip	Average
StatusCode3xx	端口维度的SLB返回给客户端的3xx状态码统计。	Count/Second	instanceId、port、vip	Average
StatusCode4xx	端口维度的SLB返回给客户端的4xx状态码统计。	Count/Second	instanceId、port、vip	Average
StatusCode5xx	端口维度的SLB返回给客户端的5xx状态码统计。	Count/Second	instanceId、port、vip	Average
StatusCodeOther	端口维度的SLB返回给客户端的other状态码统计。	Count/Second	instanceId、port、vip	Average
UpstreamCode4xx	端口维度的后端服务器返回给SLB的4xx状态码统计。	Count/Second	instanceId、port、vip	Average
UpstreamCode5xx	端口维度的后端服务器返回给客户端的5xx状态码统计。	Count/Second	instanceId、port、vip	Average
UpstreamRt	端口维度的后端服务器发给proxy的平均请求延迟。	ms	instanceId、port、vip	Average
InstanceQps	实例维度的QPS, 每秒可以处理的HTTP/HTTPS请求。	Count/Second	instanceId	Average
InstanceRt	实例维度的请求平均延时时间。	ms	instanceId	Average


Metric	描述	单位	Dimensions	Statistics
InstanceStatusCode2xx	实例维度的SLB返回给客户端的2xx状态码统计。	Count/Second	instanceId	Average
InstanceStatusCode3xx	实例维度的SLB返回给客户端的3xx状态码统计。	Count/Second	instanceId	Average
InstanceStatusCode4xx	实例维度的SLB返回给client4xx状态码统计	Count/Second	instanceId	Average
InstanceStatusCode5xx	实例维度的SLB返回给客户端的5xx状态码统计。	Count/Second	instanceId	Average
InstanceStatusCodeOther	实例维度的SLB返回给客户端的Other状态码统计。	Count/Second	instanceId	Average
InstanceUpstreamCode4xx	实例维度的后端服务器返回给SLB的4xx状态码统计。	Count/Second	instanceId	Average
InstanceUpstreamCode5xx	实例维度的后端服务器返回给SLB的5xx状态码统计。	Count/Second	instanceId	Average
InstanceUpstreamRt	实例维度的后端服务器发给proxy的平均请求延迟时间。	ms	instanceId	Average
InstanceQpsUtilization	QPS使用率。	%	instanceId	Average、Maximum、Minimum

2. 监控

2.1. 通过控制台查看监控

结合阿里云云监控服务，您可以查看负载均衡的云监控数据，如连接数、数据包数和流量等。

操作步骤

1. 登录[负载均衡管理控制台](#)。
2. 在实例管理页面，选择负载均衡实例的地域。
3. 单击目标实例的监控图标。
4. 选择要查看的监控指标，查看监控数据。



负载均衡的监控指标如下表所示。

监控指标	说明
流量	<ul style="list-style-type: none"> 流入流量：从外部访问负载均衡所消耗的流量。 流出流量：负载均衡访问外部所消耗的流量。
数据包数	<ul style="list-style-type: none"> 流入数据包数：负载均衡每秒接到的请求数据包数量。 流出数据包数：负载均衡每秒发出的数据包数量。
并发连接数	<ul style="list-style-type: none"> 活跃连接数：所有ESTABLISHED状态的TCP连接。因为如果您采用的是长连接的情况，一个连接会同时传输多个文件请求。 非活跃连接数：表示除ESTABLISHED状态的其它所有状态的TCP连接数。Windows和Linux服务器都可以使用 <code>netstat -an</code> 命令查看。 并发连接数：所有建立的TCP连接数量。
新建连接数	在统计周期内，新建立的从客户端连接到负载均衡的连接请求的平均数。

监控指标	说明
丢弃流量	<ul style="list-style-type: none"> 丢弃入流量：每秒丢失的入流量。 丢弃出流量：每秒丢失的出流量。
丢弃数据包数	<ul style="list-style-type: none"> 丢弃流入数据包：每秒丢弃的流入数据包的数量。 丢弃流出数据包：每秒丢弃的流出数据包的数量。
丢弃连接数	每秒丢弃的连接数。
以下是7层（HTTP/HTTPS）监听特有的监控指标。	
7层协议QPS	每秒处理的HTTP/HTTPS请求数。
7层协议RT	负载均衡的平均响应时间。
7层协议返回码 (2XX) / (3xx) / (4xx) / (5xx) / (Others)	监听返回的HTTP响应代码的数量。
7层协议 UpstreamCode4XX/5XX	后端服务器返回的HTTP响应代码的数量。
7层协议UpstreamRT	后端服务器的平均响应时间。

2.2. 通过API查看监控

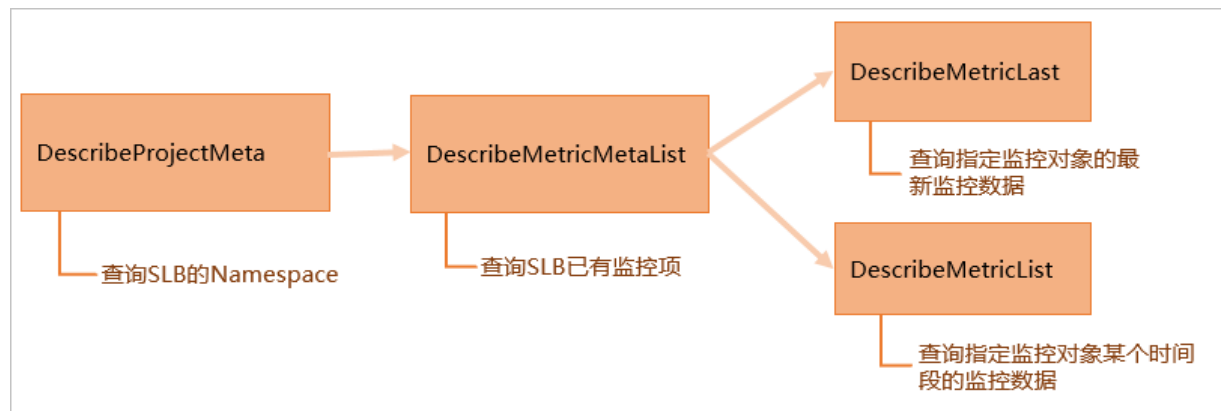
介绍如何通过云监控API查看负载均衡实例的监控项和详细监控数据。

前提条件

已知负载均衡在云监控中设置报警的产品标签SLB。

背景信息

通过API查看监控数据流程，如下图所示。



流程说明如下：

1. 调用DescribeProjectMeta接口查询云监控中负载均衡的数据命名空间Namespace。
2. (可选) 调用DescribeMetricMetaList接口查询云监控开放的时序类指标监控项描述或直接查看监控项说明, 详情参见[监控报警项说明](#)。
3. 查看监控项。
 - 调用DescribeMetricLast接口查询负载均衡指定监控对象的最新监控数据。
 - 调用DescribeMetricList接口查询负载均衡指定时间段内监控对象的时序指标监控数据。

本文以查询实例ID为lb-bp1r92vzpemy099****, 已配置七层监听的负载均衡实例的Qps监控项为例。

DescribeProjectMeta

调用DescribeProjectMeta接口查询云监控中负载均衡的数据命名空间Namespace, 详情请参见[DescribeProjectMeta](#)。

1. 将请求参数中报警产品标签过滤Labels的值设置为 [{"name":"product","value":"SLB"}], 其他参数保持默认值。请求示例:

```
http(s)://[Endpoint]/?Action=DescribeProjectMeta
&Labels=[{"name":"product","value":"SLB"}]
&<公共请求参数>
```

2. 根据返回参数, 获取云监控中负载均衡数据命名空间Namespace的值为 acs_slb_dashboard。返回示例:

```
{
  "PageSize": 30,
  "RequestId": "75B895A2-62A4-411E-871C-0EED97CC0D26",
  "PageNumber": 1,
  "Total": 1,
  "Resources": {
    "Resource": [
      {
        "Description": "负载均衡",
        "Labels": "[{"name":"product","value":"SLB"}, {"name":"productCategory","value":"slb"}, {"name":"groupFlag","value":"true"}, {"name":"cnName","value":"负载均衡"}, {"name":"enName","value":"Server Load Balancer"}]",
        "Namespace": "acs_slb_dashboard"
      }
    ]
  },
  "Code": 200,
  "Success": true
}
```

DescribeMetricMetaList

调用DescribeMetricMetaList接口查询云监控开放的时序类指标监控项描述，详情请参见[DescribeMetricMetaList](#)。

1. 将请求参数中数据命名空间Namespace的值设置为 `acs_slb_dashboard`，其他参数保持默认值。请求示例：

```
http(s)://[Endpoint]?Action=DescribeMetricMetaList
&Namespace=acs_slb_dashboard
&<公共请求参数>
```

2. 根据返回参数，查看负载均衡的时序类指标监控项。可以查看本次示例中使用的监控项Qps是否存在。返回示例：

```
{
  "TotalCount": 53,
  "RequestId": "789846B4-56FC-4681-998C-5B7DBDFBE28F",
  "Resources": {
    "Resource": [
      {
        "MetricName": "ActiveConnection",
        "Periods": "60,300",
        "Description": "端口当前活跃连接数",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{\"name\":\"alertUnit\",\"value\":\"Count\"},{\"name\":\"minAlertPeriod\",\"value\":\"60\"},{\"name\":\"metricCategory\",\"value\":\"port\"},{\"name\":\"is_alarm\",\"value\":\"true\"}]",
        "Unit": "Count",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
      },
      {
        "MetricName": "DropConnection",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{\"name\":\"alertUnit\",\"value\":\"Count/Second\"},{\"name\":\"minAlertPeriod\",\"value\":\"60\"},{\"name\":\"metricCategory\",\"value\":\"port\"},{\"name\":\"is_alarm\",\"value\":\"true\"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
      },
      {
        "MetricName": "DropPacketRX".
```

```

        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropPacketTX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropTrafficRX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "bits/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropTrafficTX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "bits/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    }
}

```

```

    "value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"port\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}}\",
    \"Unit\": \"bits/s\",
    \"Statistics\": \"Average,Minimum,Maximum\",
    \"Namespace\": \"acs_slb_dashboard\"
  },
  {
    \"MetricName\": \"GroupTrafficRX\",
    \"Periods\": \"60\",
    \"Description\": \"\",
    \"Dimensions\": \"groupId\",
    \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"bits/s\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"groupId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
    \"Unit\": \"bits/s\",
    \"Statistics\": \"Average,Minimum,Maximum,Sum\",
    \"Namespace\": \"acs_slb_dashboard\"
  },
  {
    \"MetricName\": \"GroupTrafficTX\",
    \"Periods\": \"60\",
    \"Description\": \"\",
    \"Dimensions\": \"groupId\",
    \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"bits/s\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"groupId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
    \"Unit\": \"bits/s\",
    \"Statistics\": \"Average,Minimum,Maximum,Sum\",
    \"Namespace\": \"acs_slb_dashboard\"
  },
  {
    \"MetricName\": \"HeathyServerCount\",
    \"Periods\": \"60,300\",
    \"Description\": \"当前后端健康ECS实例个数\",
    \"Dimensions\": \"userId,instanceId,port,vip\",
    \"Labels\": \"[{\"name\": \"alertUnit\", \"value\": \"Count\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"port\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]\",
    \"Unit\": \"Count\",
    \"Statistics\": \"Average,Minimum,Maximum\",
    \"Namespace\": \"acs_slb_dashboard\"
  }
}

```

```

    },
    {
      "MetricName": "InactiveConnection",
      "Periods": "60,300",
      "Description": "端口当前非活跃连接数",
      "Dimensions": "userId,instanceId,port,protocol",
      "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
      "Unit": "Count",
      "Statistics": "Average,Minimum,Maximum",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceActiveConnection",
      "Periods": "60,300",
      "Description": "",
      "Dimensions": "userId,instanceId",
      "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
      "Unit": "Count/s",
      "Statistics": "Average,Minimum,Maximum",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceDropConnection",
      "Periods": "60,300",
      "Description": "",
      "Dimensions": "userId,instanceId",
      "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
      "Unit": "Count/s",
      "Statistics": "Average,Minimum,Maximum",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceDropPacketRX",
      "Periods": "60,300",
      "Description": ""
    }
  ]
}

```



```

    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceDropPacketTX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceDropTrafficRX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "bits/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceDropTrafficTX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",

```

```

        "Unit": "bits/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceInactiveConnection",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceMaxConnection",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceMaxConnectionUtilization",
        "Periods": "60,300",
        "Description": "最大连接数使用率",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name":"alertUnit","value":"%"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]",
        "Unit": "%",
        "Statistics": "Average,Maximum,Minimum",
        "Namespace": "acs_slb_dashboard"
    },
    {

```

```

    "MetricName": "InstanceNewConnection",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": \"alertUnit\", \"value\": \"Count/Second\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceNewConnectionUtilization",
    "Periods": "60,300",
    "Description": "新建连接数使用率",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name\": \"alertUnit\", \"value\": \"%\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
    "Unit": "%",
    "Statistics": "Average,Maximum,Minimum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstancePacketRX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name\": \"alertUnit\", \"value\": \"Count/Second\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstancePacketTX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name\": \"alertUnit\", \"value\": \"Count/Second\"}, {"name\": \"minAlertPeri

```

```

    Labels : [{"name": "alertUnit", "value": "Count/second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}],
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceQps",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceQpsUtilization",
    "Periods": "60,300",
    "Description": "QPS使用率",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "%",
    "Statistics": "Average,Maximum,Minimum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceRt",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "ms"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "ms",
    "Statistics": "Average",

```

```

    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceStatusCode2xx",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/Second",
    "Statistics": "Average",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceStatusCode3xx",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/Second",
    "Statistics": "Average",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceStatusCode4xx",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/Second",
    "Statistics": "Average",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceStatusCode5xx",
    "Periods": "60,300",

```

```

    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": \"alertUnit\", \"value\": \"Count/Second\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]",
    "Unit": "Count/Second",
    "Statistics": "Average",
    "Namespace": "acs_slb_dashboard"
  }
]
},
"Code": 200,
"Success": true
}

```

DescribeMetricLast

调用DescribeMetricLast接口查询负载均衡指定监控对象的最新监控数据，本示例查看七层协议Qps的最新监控数据，详情请参见[DescribeMetricLast](#)。

四层和七层协议的监控项和监控指标不同，详情请参见[监控报警项说明](#)。

1. 在请求参数中，设置查询Qps的参数。需要配置以下参数，其他参数可保持默认值。

- **MetricName**：监控项名称，本示例设置为Qps。
- **Dimensions**：维度map，用于查询指定资源的监控数据，本示例设置为 [{"instanceId": "lb-bp1r92vzpemy099f*****"}]。
- **Namespace**：产品的数据命名空间，用于区分不同的产品，本示例设置为acs_slb_dashboard。

请求示例：

```

http(s)://[Endpoint]?Action=DescribeMetricLast
&MetricName=Qps
&Namespace=acs_slb_dashboard
&Dimensions=[{"instanceId": "lb-bp1r92vzpemy099f*****"}]
&<公共请求参数>

```

2. 根据返回参数，查看Qps的最新监控数据。返回示例：

```
{
  "RequestId": "B0EED5A2-7FE2-4A0C-B5E9-3D961F86DC9D",
  "Period": "60",
  "Datapoints": "[{\"timestamp\":\"1586248680000\",\"userId\":\"16884015959****\",\"instanceId\":\"lb-bp1r92vzpemy099f****\",\"port\":\"80\",\"protocol\":\"http\",\"vip\":\"121.43.**.**\",\"Average\":0}]",
  "Code": "200",
  "Success": true
}
```

DescribeMetricList

调用DescribeMetricList接口查询负载均衡指定时间段内的时序指标监控数据，详情请参见[DescribeMetricList](#)。

- 在请求参数中，设置查询指定时间内Qps的监控数据。需要配置以下参数，其他参数可保持默认值。
 - MetricName**：监控项名称，本次示例设置为Qps。
 - Namespace**：产品的数据命名空间，用于区分不同的产品，本次示例设置为acs_slb_dashboard。
 - Dimensions**：维度map，用于查询指定资源的监控数据，本示例设置为 [{"instanceId":"lb-bp1r92vzpemy099f****"}]。
 - StartTime**：开始时间，StartTime不能等于或大于EndTime，本次示例设置为 2020-03-28 00:10:00。

支持格式：

- Unix时间戳：从1970年1月1日开始所经过的秒数。
- Format格式：YYYY-MM-DDThh:mm:ssZ。

- **EndTime**：结束时间，支持的格式和StartTime一致，本次示例设置为 2020-03-28 00:11:00。

请求示例：

```
http(s)://[Endpoint]/?Action=DescribeMetricList
&MetricName=Qps
&Namespace=acs_slb_dashboard
&Dimensions=[{"instanceId":"lb-bp1r92vzpemy099f****"}]
&StartTime=2020-03-28 00:10:00
&EndTime=2020-03-28 00:11:00
&<公共请求参数>
```

- 根据返回参数，查看Qps在指定时间内的监控数据。返回示例：

```
{
  "RequestId": "DFF0A853-0E37-4108-A9AF-5B3D609BD489",
  "Period": "60",
  "Datapoints": "[[{"timestamp":1585325460000,\"userId\":\"168840159596****\",\"instanceId\":\"lb-bp1r92vzpzemy099f*****\",\"port\":\"80\",\"protocol\":\"http\",\"vip\":\"121.43.**.*\",\"Average\":0}]]",
  "Code": "200",
  "Success": true
}
```

2.3. 通过SDK查看监控

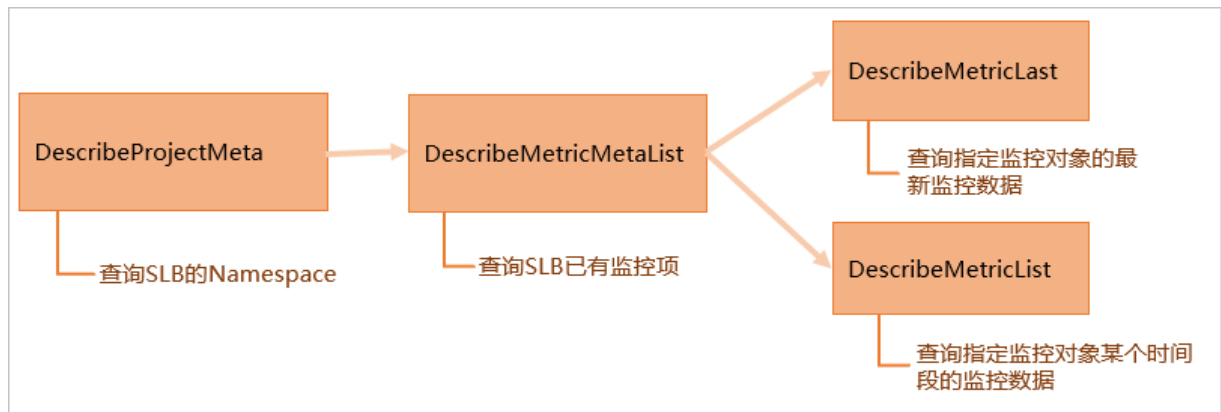
介绍如何通过云监控Java和Python SDK查看负载均衡实例的监控项和详细监控数据。

前提条件

已知负载均衡在云监控中设置报警的产品标签SLB。

背景信息

通过SDK查看监控数据API使用流程，如下图所示。



流程说明如下：

1. 调用DescribeProjectMeta接口查询云监控中负载均衡的数据命名空间Namespace。
2. 调用DescribeMetricMetaList接口查询云监控开放的时序类指标监控项描述。
3. 查看监控项。
 - 调用DescribeMetricLast接口查询负载均衡指定监控对象的最新监控数据。
 - 调用DescribeMetricList接口查询负载均衡指定时间段内监控对象的时序指标监控数据。

Python

示例：查询实例ID为lb-f8zbf0i07sv4qr1****，已配置七层监听的负载均衡实例的Qps监控项。

Python SDK代码如下：

```
from aliyunsdkcms.request.v20190101 import DescribeProjectMetaRequest, DescribeMetricMetaListRequest, \
```



```
DescribeMetricLastRequest, DescribeMetricListRequest
from aliyunsdkcore.client import AcsClient
import json

if __name__ == '__main__':
    # 1.初始化SDK
    ACS_CLIENT = AcsClient(
        'LTAI4FicM86BTPDyP*****', # your-access-key-id
        'VRj7d6LOl2ZyFyfYTWYzGk0*****', # your-access-key-secret
        'cn-heyan', # your-region-id
    )

    # 过滤标签, 此处过滤产品名称为SLB的数据
    labels = "[{\"name\": \"product\", \"value\": \"SLB\"}]"
    # 监控维度, 此处查询后端服务器实例的监控数据
    dimensions = "[{\"instanceId\": \"lb-f8zbf0i07sv4qr1*****\"}]"
    # 指定查询时间段, 根据需要自行替换
    startTime = "2020-04-08 11:39:30"
    endTime = "2020-04-08 11:50:30"
    # 监控数据时间间隔
    period = "60"

    # 2.调用DescribeProjectMeta接口查询SLB的Namespace
    describeProjectMetaRequest = DescribeProjectMetaRequest.DescribeProjectMetaRequest()
    describeProjectMetaRequest.set_Labels(labels)
    describeProjectMetaResponse = ACS_CLIENT.do_action_with_exception(describeProjectMetaRequest
    )
    describeProjectMetaResponse_json = json.loads(describeProjectMetaResponse)
    namespace = describeProjectMetaResponse_json['Resources']['Resource'][0]['Namespace']
    print("SLB Namespace: ", namespace)

    # 3.调用DescribeMetricMetaList接口查询SLB可用的云监控时序类指标监控项
    describeMetricMetaListRequest = DescribeMetricMetaListRequest.DescribeMetricMetaListRequest()
    describeMetricMetaListRequest.set_Namespace(namespace)
    describeMetricMetaListRequest.set_PageSize(100)
    describeMetricMetaListResponse = ACS_CLIENT.do_action_with_exception(describeMetricMetaListRe
    quest)
    describeMetricMetaListResponse_json = json.loads(describeMetricMetaListResponse)
    metricMetaListResources = describeMetricMetaListResponse_json['Resources']['Resource']
    print(metricMetaListResources)
```

```
# 这里以查询此监控项为例：ActiveConnection（端口当前活跃连接数）
metricName = "Qps" #设置监控项

# 4.查询指定监控项的最新监控数据
describeMetricLastRequest = DescribeMetricLastRequest.DescribeMetricLastRequest()
describeMetricLastRequest.set_Namespace(namespace)
describeMetricLastRequest.set_MetricName(metricName)
describeMetricLastRequest.set_Dimensions(dimensions)
describeMetricLastRequest.set_Period(period)
describeMetricLastResponse = ACS_CLIENT.do_action_with_exception(describeMetricLastRequest)
describeMetricLastResponse_json = json.loads(describeMetricLastResponse)
print("最新监控数据：\n", describeMetricLastResponse_json['Datapoints'])

# 5.查询指定时间段内的指定监控项数据
describeMetricListRequest = DescribeMetricListRequest.DescribeMetricListRequest()
describeMetricListRequest.set_Namespace(namespace)
describeMetricListRequest.set_MetricName(metricName)
describeMetricListRequest.set_Dimensions(dimensions)
describeMetricListRequest.set_Period(period)
describeMetricListRequest.set_StartTime(startTime)
describeMetricListRequest.set_EndTime(endTime)
describeMetricListResponse = ACS_CLIENT.do_action_with_exception(describeMetricListRequest)
print(describeMetricListResponse)
describeMetricListResponse_json = json.loads(describeMetricListResponse)
print(describeMetricListResponse_json)
print("指定时间段的监控数据：\n", describeMetricListResponse_json['Datapoints'])
```

Java

示例：查询实例ID为lb-f8zbf0i07sv4qr1****，已配置七层监听的负载均衡实例的Qps监控项。

Java SDK代码如下：

```
package com.aliyun.cms;
import com.aliyun.CommonConfig;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.cms.model.v20190101.*;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.profile.DefaultProfile;
import com.google.gson.Gson;
```

```
import java.util.List;

public class DescribeSLBMonitorData {

    public static void main(String[] args) {
        // 1.初始化SDK
        DefaultProfile profile = DefaultProfile.getProfile(
            "cn-hangzhou", // 地域ID
            CommonConfig.ACCESSKEY_ID, // 您的AccessKey ID
            CommonConfig.ACCESSKEY_SECRET); // 您的AccessKey Secret
        IAcsClient client = new DefaultAcsClient(profile);

        Gson gson = new Gson();
        // 过滤标签，此处过滤产品名称为SLB的数据
        String labels = "[{\"name\": \"product\", \"value\": \"SLB\"}];";
        // 监控维度，此处查询SLB实例的监控数据
        String dimensions = "[{\"instanceId\": \"lb-f8zbf0i07sv4qr1*****\"}];";
        // 指定查询时间段，根据需要自行替换
        String startTime = "2020-04-08 11:39:30";
        String endTime = "2020-04-08 11:50:30";
        // 监控数据时间间隔
        String period = "60";
        DescribeSLBMonitorData describeSLBMonitorData = new DescribeSLBMonitorData();

        // 2.调用DescribeProjectMeta接口查询SLB的Namespace
        DescribeProjectMetaRequest describeProjectMetaRequest = new DescribeProjectMetaRequest();
        describeProjectMetaRequest.setLabels(labels);
        DescribeProjectMetaResponse describeProjectMetaResponse = describeSLBMonitorData.describeProjectMeta(describeProjectMetaRequest, client);
        DescribeProjectMetaResponse.Resource projectMetaResource = describeProjectMetaResponse.getResources().get(0);
        String namespace = projectMetaResource.getNamespace();
        System.out.printf("SLB Namespace: %s\n", namespace);

        // 3.调用DescribeMetricMetaList接口查询SLB可用的云监控时序类指标监控项
        DescribeMetricMetaListRequest describeMetricMetaListRequest = new DescribeMetricMetaListRequest();
        describeMetricMetaListRequest.setNamespace(namespace);
        describeMetricMetaListRequest.setPageSize(100);
        DescribeMetricMetaListResponse describeMetricMetaListResponse = describeSLBMonitorData.de
```

```

DescribeMetricMetaListResponse describeMetricMetaListResponse = describeSLBMonitorData.de
scribeMetricMetaList(describeMetricMetaListRequest, client);
    List<DescribeMetricMetaListResponse.Resource> metricMetaListResources = describeMetricMeta
ListResponse.getResources();
    System.out.println(gson.toJson(metricMetaListResources));

    // 这里以查询此监控项为例：ActiveConnection（端口当前活跃连接数）
    String metricName = "Qps"; //设置监控项

    // 4.查询指定监控项的最新监控数据
    DescribeMetricLastRequest describeMetricLastRequest = new DescribeMetricLastRequest();
    describeMetricLastRequest.setNamespace(namespace);
    describeMetricLastRequest.setMetricName(metricName);
    describeMetricLastRequest.setDimensions(dimensions);
    describeMetricLastRequest.setPeriod(period);
    DescribeMetricLastResponse describeMetricLastResponse = describeSLBMonitorData.describeMe
tricLast(describeMetricLastRequest, client);
    System.out.printf("最新监控数据：\n%s", describeMetricLastResponse.getDatapoints());

    // 5.查询指定时间段内的指定监控项数据
    DescribeMetricListRequest describeMetricListRequest = new DescribeMetricListRequest();
    describeMetricListRequest.setNamespace(namespace);
    describeMetricListRequest.setMetricName(metricName);
    describeMetricListRequest.setDimensions(dimensions);
    describeMetricListRequest.setPeriod(period);
    describeMetricListRequest.setStartTime(startTime);
    describeMetricListRequest.setEndTime(endTime);
    DescribeMetricListResponse describeMetricListResponse = describeSLBMonitorData.describeMetr
icList(describeMetricListRequest, client);
    System.out.printf("\n指定时间段的监控数据：\n%s", describeMetricListResponse.getDatapoints());
}

/**
 * 获取接入的云产品信息，包括产品的描述信息、Namespace和标签
 */
private DescribeProjectMetaResponse describeProjectMeta(DescribeProjectMetaRequest request, I
AcsClient client) {
    try {
        // 调用SDK发送请求
        return client.getAcsResponse(request);
    } catch (ClientException e) {

```

```
e.printStackTrace();
// 发生调用错误，抛出运行时异常
throw new RuntimeException();
}
}

/**
 * 查询指定监控对象的最新监控数据
 */
private DescribeMetricLastResponse describeMetricLast(DescribeMetricLastRequest request, IAcsClient client) {
    try {
        // 调用SDK发送请求
        return client.getAcsResponse(request);
    } catch (ClientException e) {
        e.printStackTrace();
        // 发生调用错误，抛出运行时异常
        throw new RuntimeException();
    }
}

/**
 * 查询云监控开放的时序类指标
 */
private DescribeMetricMetaListResponse describeMetricMetaList(DescribeMetricMetaListRequest request, IAcsClient client) {
    try {
        // 调用SDK发送请求
        return client.getAcsResponse(request);
    } catch (ClientException e) {
        e.printStackTrace();
        // 发生调用错误，抛出运行时异常
        throw new RuntimeException();
    }
}

/**
 * 查询指定时间段内的云产品时序指标监控数据
 */
private DescribeMetricListResponse describeMetricList(DescribeMetricListRequest request, IAcsClient client) {
```

```

try {
    // 调用SDK发送请求
    return client.getAcsResponse(request);
} catch (ClientException e) {
    e.printStackTrace();
    // 发生调用错误，抛出运行时异常
    throw new RuntimeException();
}
}
}

```

返回结果

SDK返回结果如下：

```

SLB Namespace:  acs_slb_dashboard
[{'MetricName': 'ActiveConnection', 'Periods': '60,300', 'Description': '端口当前活跃连接数', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"Count"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'DropConnection', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'DropPacketRX', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'DropPacketTX', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'DropTrafficRX', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'DropTrafficTX', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'GroupTrafficRX', 'Periods': '60', 'Description': '', 'Dimensions': 'groupId', 'Labels': '[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"group"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s'}]

```

```
e : 60 },{ name : metricCategory , value : groupId },{ name : is_alarm , value : true }], Unit : bits/s
, 'Statistics': 'Average,Minimum,Maximum,Sum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'G
roupTrafficTX', 'Periods': '60', 'Description': ', 'Dimensions': 'groupId', 'Labels': '{"name":"alertUnit",
"value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"groupId"},{"
name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum,Sum', 'Names
pace': 'acs_slb_dashboard'}, {'MetricName': 'HealthyServerCount', 'Periods': '60,300', 'Description': '当前后
端健康ECS实例个数', 'Dimensions': 'userId,instanceId,port,vip', 'Labels': '{"name":"alertUnit","value":"Cou
nt"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm"
,"value":"true"}]', 'Unit': 'Count', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashbo
ard'}, {'MetricName': 'InactiveConnection', 'Periods': '60,300', 'Description': '端口当前非活跃连接数', 'Dimensi
ons': 'userId,instanceId,port,protocol', 'Labels': '{"name":"alertUnit","value":"Count"},{"name":"minAlert
Period","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]', 'Unit
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nstanceActiveConnection', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '
{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCa
tegory","value":"instanceId"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,
Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceDropConnection', 'Perio
ds': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Co
unt/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"n
ame":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace'
: 'acs_slb_dashboard'}, {'MetricName': 'InstanceDropPacketRX', 'Periods': '60,300', 'Description': ', 'Dimen
sions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPer
iod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]', 'U
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e': 'InstanceDropPacketTX', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels':
 '{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricC
ategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Averag
e,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceDropTrafficRX', 'Perio
ds': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"bit
s/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is
_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_
dashboard'}, {'MetricName': 'InstanceDropTrafficTX', 'Periods': '60,300', 'Description': ', 'Dimensions': 'us
erId,instanceId', 'Labels': '{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{
"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Stati
stics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceInactive
Connection', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"aler
tUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value
":"instanceId"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maxi
mum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceMaxConnection', 'Periods': '60,300', 'D
escription': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"},{
"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alar
```

```
m","value":"true"]], 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_da
shboard'}, {'MetricName': 'InstanceMaxConnectionUtilization', 'Periods': '60,300', 'Description': '最大连接
数使用率', 'Dimensions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit","value":"%"}, {"name":"minAlert
Period","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]
', 'Unit': '%', 'Statistics': 'Average,Maximum,Minimum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName':
'InstanceNewConnection', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId', 'Labels': [
{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCat
egory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]], 'Unit': 'Count/s', 'Statistics': 'Average,
Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceNewConnectionUtilizati
on', 'Periods': '60,300', 'Description': '新建连接数使用率', 'Dimensions': 'userId,instanceId', 'Labels': '[{"nam
e":"alertUnit","value":"%"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"in
stanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': '%', 'Statistics': 'Average,Maximum,Minimum', 'Nam
espace': 'acs_slb_dashboard'}, {'MetricName': 'InstancePacketRX', 'Periods': '60,300', 'Description': '', 'Dim
ensions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertP
eriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]',
'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricNa
me': 'InstancePacketTX', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId', 'Labels': '[{"
name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCate
gory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Mi
nimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceQps', 'Periods': '60,300', 'D
escription': '', 'Dimensions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit","value":"Count/s"}, {"name
":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","val
ue":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'I
nstanceQpsUtilization', 'Periods': '60,300', 'Description': 'QPS使用率', 'Dimensions': 'userId,instanceId', 'L
abels': '[{"name":"alertUnit","value":"%"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCatego
ry","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': '%', 'Statistics': 'Average,Maximum,
Minimum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceRt', 'Periods': '60,300', 'Description
': '', 'Dimensions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit","value":"ms"}, {"name":"minAlertPeri
od","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'U
nit': 'ms', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceStatusCode
2xx', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit",
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anceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace':
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sions': 'userId,instanceId', 'Labels': '[{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeri
od","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'U
nit': 'Count/Second', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'Instance
StatusCode4xx', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId', 'Labels': '[{"name":
"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","v
alue":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Na
mespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceStatusCode5xx', 'Periods': '60,300', 'Description'
```



```

: ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"},{"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceStatusCodeOther', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceTrafficRX', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Mbits/s"}, {"name":"minAlertPeriod","value":"60"}, {"name":"unitFactor","value":"1048576"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceTrafficTX', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Mbits/s"}, {"name":"minAlertPeriod","value":"60"}, {"name":"unitFactor","value":"1048576"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceUpstreamCode4xx', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceUpstreamCode5xx', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'InstanceUpstreamRt', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId', 'Labels': '{"name":"alertUnit","value":"ms"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"instanceId"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'ms', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'MaxConnection', 'Periods': '60,300', 'Description': ', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"port"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/Second', 'Statistics': 'Maximum,Minimum,Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'NewConnection', 'Periods': '60,300', 'Description': '端口当前新建连接数', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '{"name":"alertUnit","value":"Count"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"port"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'PacketRX', 'Periods': '60,300', 'Description': '端口每秒流入数据包数', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"port"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'PacketTX', 'Periods': '60,300', 'Description': '端口每秒流出数据包数', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': '{"name":"alertUnit","value":"Count/Second"}, {"name":"minAlertPeriod","value":"60"}, {"name":"metricCategory","value":"port"}, {"name":"is_alarm","value":"true"}]', 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'Qps', 'P

```

```

eriods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': [{'name': 'alert
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hboard'}, {'MetricName': 'Rt', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,prot
ocol', 'Labels': [{'name': 'alertUnit', 'value': 'ms'}, {'name': 'alertDefault', 'value': 'ms'}, {'name': 'minAler
tPeriod', 'value': '60'}, {'name': 'metricCategory', 'value': 'port'}, {'name': 'is_alarm', 'value': 'true'}], 'Uni
t': '', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'StatusCode2xx', 'Periods'
: '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': [{'name': 'alertUnit', '
value': 'Count/s'}, {'name': 'minAlertPeriod', 'value': '60'}, {'name': 'metricCategory', 'value': 'port'}, {'na
me': 'is_alarm', 'value': 'true'}], 'Unit': 'Count/s', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboar
d'}, {'MetricName': 'StatusCode3xx', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,p
ort,protocol', 'Labels': [{'name': 'alertUnit', 'value': 'Count/Second'}, {'name': 'minAlertPeriod', 'value': "
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e': 'Count/Second'}, {'name': 'minAlertPeriod', 'value': '60'}, {'name': 'metricCategory', 'value': 'port'}, {'n
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shboard'}, {'MetricName': 'StatusCode5xx', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,insta
nceld,port,protocol', 'Labels': [{'name': 'alertUnit', 'value': 'Count/Second'}, {'name': 'minAlertPeriod', "
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e': 'port'}, {'name': 'is_alarm', 'value': 'true'}], 'Unit': 'Count/Second', 'Statistics': 'Average', 'Namespace'
: 'acs_slb_dashboard'}, {'MetricName': 'TrafficRXNew', 'Periods': '60,300', 'Description': '端口每秒流入数据量
', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': [{'name': 'alertUnit', 'value': 'Mbits/s'}, {'nam
e': 'minAlertPeriod', 'value': '60'}, {'name': 'unitFactor', 'value': '1048576'}, {'name': 'metricCategory', 'va
lue': 'port'}, {'name': 'is_alarm', 'value': 'true'}], 'Unit': 'bits/s', 'Statistics': 'Average,Minimum,Maximum',
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bits/s"}, {'name': 'minAlertPeriod', 'value': '60'}, {'name': 'unitFactor', 'value': '1048576'}, {'name': 'metri
cCategory', 'value': 'port'}, {'name': 'is_alarm', 'value': 'true'}], 'Unit': 'bits/s', 'Statistics': 'Average,Minim
um,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'MetricName': 'UnhealthyServerCount', 'Periods': '60,
300', 'Description': '当前后端异常ECS实例个数', 'Dimensions': 'userId,instanceId,port,vip', 'Labels': [{'name'
: 'alertUnit', 'value': 'Count'}, {'name': 'minAlertPeriod', 'value': '60'}, {'name': 'metricCategory', 'value': "
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espace': 'acs_slb_dashboard'}, {'MetricName': 'UpstreamCode4xx', 'Periods': '60,300', 'Description': '', 'Di
mensions': 'userId,instanceId,port,protocol', 'Labels': [{'name': 'alertUnit', 'value': 'Count/s'}, {'name': "
minAlertPeriod", 'value': '60'}, {'name': 'metricCategory', 'value': 'port'}, {'name': 'is_alarm', 'value': 'true
'}], 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {'Metri
cName': 'UpstreamCode5xx', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,pro

```

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    tocol, 'Labels': [{"name": "alertUnit", "value": "Count/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}], 'Unit': 'Count/s', 'Statistics': 'Average,Minimum,Maximum', 'Namespace': 'acs_slb_dashboard'}, {"MetricName": 'UpstreamRt', 'Periods': '60,300', 'Description': '', 'Dimensions': 'userId,instanceId,port,protocol', 'Labels': [{"name": "alertUnit", "value": "ms"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}], 'Unit': 'ms', 'Statistics': 'Average', 'Namespace': 'acs_slb_dashboard']}

```

最新监控数据:

```

[{"timestamp": 1586318940000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}]

```

```

b{"RequestId": "16064EB5-909D-40E3-BB9B-AB287E801AB1", "Period": "60", "Datapoints": [{"timestamp": 1586317200000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317260000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317320000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317380000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317440000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317500000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317560000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317620000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317680000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317740000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317800000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}], "Code": "200", "Success": true}

```

```

{"RequestId": "16064EB5-909D-40E3-BB9B-AB287E801AB1", "Period": "60", "Datapoints": [{"timestamp": 1586317200000, "userId": "1857668598503****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317260000, "userId": "185766859850****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317320000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317380000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317440000, "userId": "18576685985****", "instanceId": "lb-f8zbf0i07sv4qr1****", "port": "8090", "proto

```

```
col": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317500000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317560000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317620000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317680000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317740000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317800000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}], "Code": "200", "Success": True}
```

指定时间段的监控数据：

```
[{"timestamp": 1586317200000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1q*****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317260000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317320000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317380000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "80", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317440000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317500000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317560000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317620000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317680000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317740000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}, {"timestamp": 1586317800000, "userId": "18576685985*****", "instanceId": "lb-f8zbf0i07sv4qr1*****", "port": "8090", "protocol": "http", "vip": "47.115.**.**", "Average": 0}]
```

3.报警

3.1. 设置报警规则

开通云监控服务后，您可以在云监控控制台为负载均衡实例配置监控报警规则。

背景信息

说明 负载均衡的监听或实例被删除，其在云监控设置的报警规则也会相应删除。

操作步骤

1. 登录**负载均衡管理控制台**。
2. 选择负载均衡实例的地域。
3. 单击实例后的



注意 确保该实例已经配置了监听，并开启了健康检查。

4. 单击**阈值报警设置**，进入云服务监控页面。



5. 单击**创建报警规则**。
6. 配置报警规则，详细请参见**创建事件报警规则**。



负载均衡

事件类型
状态通知 ✕

事件等级
警告 ✕

事件名称
证书将在1天后到期 ✕

资源范围
 全部资源 应用分组

报警方式

报警通知

联系人组 删除
11

通知方式
Warning (短信+邮箱+钉钉机器人)

+添加操作

消息服务队列

函数计算 (最佳实践)

URL回调

日志服务

确定 取消

云监控答

3.2. 通过API设置报警规则

介绍如何通过云监控API给负载均衡的监控项设置报警规则。

前提条件

- 已知负载均衡在云监控中设置报警的产品标签SLB。
- 已知云监控中负载均衡的数据命名空间Namespace为 `acs_slb_dashboard`，获取方式请参见[DescribeProjectMeta](#)。

背景信息

通过API设置报警规则的流程，如下图所示。



流程说明如下：

1. （可选）调用DescribeMetricMetaList查询云监控开放的SLB时序类指标监控项描述或直接查看监控项说明，详情参见[监控报警项说明](#)。
2. 调用PutContact创建或修改报警联系人信息。
3. 调用PutContactGroup创建或者修改报警联系人组。
4. 调用PutResourceMetricRule接口对单个资源的性能指标设置阈值报警规则。
5. 调用DescribeMetricRuleList接口查询报警规则列表。

本文以配置了TCP监听的lb-bp1rbwvouuyipbc***实例为例，创建后端异常ECS个数Critical、Warn和Info三种级别报警的阈值，超出阈值触发报警的规则。

DescribeMetricMetaList

调用DescribeMetricMetaList接口查询云监控开放的时序类指标监控项描述，详情请参见[DescribeMetricMetaList](#)。

1. 将请求参数中数据命名空间Namespace的值设置为 `acs_slb_dashboard`，其他参数保持默认值。请求示例：

```

http(s)://[Endpoint]/?Action=DescribeMetricMetaList
&Namespace=acs_slb_dashboard
&<公共请求参数>
  
```

2. 根据返回参数，查看负载均衡的时序类指标监控项。可以查看本次示例中使用的监控项Qps是否存在。返回示例：

```

{
  "TotalCount": 53,
  "RequestId": "789846B4-56FC-4681-998C-5B7DBDFBE28F",
  "Resources": {
    "Resource": [
      {
        "MetricName": "ActiveConnection",
        "Periods": "60,300",
        "Description": "端口当前活跃连接数",
      }
    ]
  }
}
  
```

```

        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropConnection",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropPacketRX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "DropPacketTX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId,port,protocol",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/s",

```



```

Unit : Count/s ,
"Statistics": "Average,Minimum,Maximum",
"Namespace": "acs_slb_dashboard"
},
{
  "MetricName": "DropTrafficRX",
  "Periods": "60,300",
  "Description": "",
  "Dimensions": "userId,instanceId,port,protocol",
  "Labels": "[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]",
  "Unit": "bits/s",
  "Statistics": "Average,Minimum,Maximum",
  "Namespace": "acs_slb_dashboard"
},
{
  "MetricName": "DropTrafficTX",
  "Periods": "60,300",
  "Description": "",
  "Dimensions": "userId,instanceId,port,protocol",
  "Labels": "[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"port"},{"name":"is_alarm","value":"true"}]",
  "Unit": "bits/s",
  "Statistics": "Average,Minimum,Maximum",
  "Namespace": "acs_slb_dashboard"
},
{
  "MetricName": "GroupTrafficRX",
  "Periods": "60",
  "Description": "",
  "Dimensions": "groupId",
  "Labels": "[{"name":"alertUnit","value":"bits/s"},{"name":"minAlertPeriod","value":"60"},{"name":"metricCategory","value":"groupId"},{"name":"is_alarm","value":"true"}]",
  "Unit": "bits/s",
  "Statistics": "Average,Minimum,Maximum,Sum",
  "Namespace": "acs_slb_dashboard"
},
{

```

```

    "MetricName": "GroupTrafficTX",
    "Periods": "60",
    "Description": "",
    "Dimensions": "groupId",
    "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "groupId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "bits/s",
    "Statistics": "Average,Minimum,Maximum,Sum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "HeathyServerCount",
    "Periods": "60,300",
    "Description": "当前后端健康ECS实例个数",
    "Dimensions": "userId,instanceId,port,vip",
    "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InactiveConnection",
    "Periods": "60,300",
    "Description": "端口当前非活跃连接数",
    "Dimensions": "userId,instanceId,port,protocol",
    "Labels": "[{"name": "alertUnit", "value": "Count"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "port"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceActiveConnection",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeri

```



```

    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceDropTrafficRX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "bits/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceDropTrafficTX",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "bits/s"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "bits/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceInactiveConnection",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceMaxConnection",
    "Periods": "60,300",

```

```

    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceMaxConnectionUtilization",
    "Periods": "60,300",
    "Description": "最大连接数使用率",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "%",
    "Statistics": "Average,Maximum,Minimum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceNewConnection",
    "Periods": "60,300",
    "Description": "",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
    "Unit": "Count/s",
    "Statistics": "Average,Minimum,Maximum",
    "Namespace": "acs_slb_dashboard"
  },
  {
    "MetricName": "InstanceNewConnectionUtilization",
    "Periods": "60,300",
    "Description": "新建连接数使用率",
    "Dimensions": "userId,instanceId",
    "Labels": "[{"name": "alertUnit", "value": "%"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",

```

```

        "Unit": "%",
        "Statistics": "Average,Maximum,Minimum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstancePacketRX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name": \"alertUnit\", \"value\": \"Count/Second\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstancePacketTX",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name": \"alertUnit\", \"value\": \"Count/Second\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
        "Unit": "Count/s",
        "Statistics": "Average,Minimum,Maximum",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceQps",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name": \"alertUnit\", \"value\": \"Count/s\"}, {"name\": \"minAlertPeriod\", \"value\": \"60\"}, {"name\": \"metricCategory\", \"value\": \"instanceId\"}, {"name\": \"is_alarm\", \"value\": \"true\"}]",
        "Unit": "Count/s",
        "Statistics": "Average",
        "Namespace": "acs_slb_dashboard"
    },
}

```

```

    {
      "MetricName": "InstanceQpsUtilization",
      "Periods": "60,300",
      "Description": "QPS使用率",
      "Dimensions": "userId,instanceId",
      "Labels": "[{\"name\": \"alertUnit\", \"value\": \"%\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]",
      "Unit": "%",
      "Statistics": "Average,Maximum,Minimum",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceRt",
      "Periods": "60,300",
      "Description": "",
      "Dimensions": "userId,instanceId",
      "Labels": "[{\"name\": \"alertUnit\", \"value\": \"ms\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]",
      "Unit": "ms",
      "Statistics": "Average",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceStatusCode2xx",
      "Periods": "60,300",
      "Description": "",
      "Dimensions": "userId,instanceId",
      "Labels": "[{\"name\": \"alertUnit\", \"value\": \"Count/Second\"}, {\"name\": \"minAlertPeriod\", \"value\": \"60\"}, {\"name\": \"metricCategory\", \"value\": \"instanceId\"}, {\"name\": \"is_alarm\", \"value\": \"true\"}]",
      "Unit": "Count/Second",
      "Statistics": "Average",
      "Namespace": "acs_slb_dashboard"
    },
    {
      "MetricName": "InstanceStatusCode3xx",
      "Periods": "60,300",
      "Description": "",
      "Dimensions": "userId,instanceId",

```

```

        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/Second",
        "Statistics": "Average",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceStatusCode4xx",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/Second",
        "Statistics": "Average",
        "Namespace": "acs_slb_dashboard"
    },
    {
        "MetricName": "InstanceStatusCode5xx",
        "Periods": "60,300",
        "Description": "",
        "Dimensions": "userId,instanceId",
        "Labels": "[{"name": "alertUnit", "value": "Count/Second"}, {"name": "minAlertPeriod", "value": "60"}, {"name": "metricCategory", "value": "instanceId"}, {"name": "is_alarm", "value": "true"}]",
        "Unit": "Count/Second",
        "Statistics": "Average",
        "Namespace": "acs_slb_dashboard"
    }
]
},
"Code": 200,
"Success": true
}

```

PutContact

调用PutContact创建报警联系人，如果已有报警联系人，也可以通过该接口修改报警联系人，详情请参见[PutContact](#)。

1. 在请求参数中，设置报警联系人的姓名和联系方式。本示例中设置以下参数，其他参数保持默认值：
 - **ContactName**：自定义报警联系人姓名。
 - **Channels.Mail**：Email地址。添加或者修改Email会收到一个激活链接，激活之后对应的Email才会被加到联系人中。

请求示例：

```
http(s)://[Endpoint]?Action=PutContact
&ContactName=doctest
&Channels.Mail=test@example.com
&<公共请求参数>
```

2. 根据返回参数，判断报警联系人是否创建成功。返回示例：

```
{
  "RequestId": "50E26BC3-B211-4713-9608-EE8CE2EAB7E1",
  "Code": "200",
  "Success": true
}
```

PutContactGroup

调用PutContactGroup创建报警联系人组，如果已存在，也可以通过该接口修改报警联系人组，详情请参见[PutContactGroup](#)。

1. 在请求参数中，设置报警联系人组的名称、报警联系人组描述和报警联系人姓名。本示例中需要配置以下参数，其他参数保持默认值：
 - **ContactGroupName**：自定义报警联系人组名称。
 - **Describe**：报警联系人组描述信息。
 - **ContactNames**：报警联系人名称。

请求示例：

```
http(s)://[Endpoint]?Action=PutContactGroup
&ContactGroupName=doctestgroup
&ContactNames.1=doctest
&Describe=slb报警联系人组
&<公共请求参数>
```

2. 根据返回参数，判断报警联系人组是否创建成功。返回示例：

```
{
  "RequestId": "B8B88837-99A4-4F0D-B445-5E9C072D154D",
  "Code": "200",
  "Success": true
}
```

PutResourceMetricRule

调用PutResourceMetricRule接口对单个资源的性能指标设置阈值报警规则，详情请参见PutResourceMetricRule。

1. 在请求参数中，设置本示例后端异常ECS个数的报警阈值。本示例需要设置以下参数，其他参数可以保持默认值。

参数	参数说明
RuleId	自定义报警规则ID。
Namespace	设置负载均衡产品的数据命名空间acs_slb_dashboard。
MetricName	监控项名称，可根据DescribeMetricMetaList查询结果或 监控报警项说明 设置。 本示例中后端异常ECS个数的监控项为UnhealthyServerCount。
Resources	需要报警的资源。负载均衡设置格式为 [{"instanceId": "lb-bp1rbwvouu*****"}]。
ContactGroups	报警联系人组，多个联系组之间用英文逗号分隔。
Escalations.Critical.Statistics	Critical级别报警统计方法，包括以下选项： <ul style="list-style-type: none"> ◦ Average：平均值。 ◦ Minimum：最小值。 ◦ Maximum：最大值。
Escalations.Critical.ComparisonOperator	Critical级别阈值比较符。您可以根据以下规则进行选择： <ul style="list-style-type: none"> ◦ GreaterThanOrEqualToThreshold：大于等于。 ◦ GreaterThanThreshold：大于。 ◦ LessThanOrEqualToThreshold：小于等于。 ◦ LessThanThreshold：小于。 ◦ NotEqualToThreshold：不等。 ◦ GreaterThanYesterday：同比昨天时间上涨。 ◦ LessThanYesterday：同比昨天时间下降。 ◦ GreaterThanLastWeek：同比上周同一时间上涨。 ◦ LessThanLastWeek：同比上周同一时间下降。 ◦ GreaterThanLastPeriod：环比上周期上涨。 ◦ LessThanLastPeriod：环比上周期下降。
Escalations.Critical.Threshold	Critical级别报警阈值。

参数	参数说明
Escalations.Critical.Times	Critical级别报警重试次数。
Escalations.Warn.Statistics	Warn级别报警统计方法，包含以下选项： <ul style="list-style-type: none"> ◦ Average: 平均值。 ◦ Minimum: 最小值。 ◦ Maximum: 最大值。
Escalations.Warn.ComparisonOperator	Warn级别阈值比较符。您可以根据以下规则进行选择： <ul style="list-style-type: none"> ◦ GreaterThanOrEqualToThreshold: 大于等于。 ◦ GreaterThanThreshold: 大于。 ◦ LessThanOrEqualToThreshold: 小于等于。 ◦ LessThanThreshold: 小于。 ◦ NotEqualToThreshold: 不等。 ◦ GreaterThanYesterday: 同比昨天时间上涨。 ◦ LessThanYesterday: 同比昨天时间下降。 ◦ GreaterThanLastWeek: 同比上周同一时间上涨。 ◦ LessThanLastWeek: 同比上周同一时间下降。 ◦ GreaterThanLastPeriod: 环比上周期上涨。 ◦ LessThanLastPeriod: 环比上周期下降。
Escalations.Warn.Threshold	Warn级别报警阈值。
Escalations.Warn.Times	Warn级别报警重试次数。
Escalations.Info.Statistics	Info级别报警统计方法，包含以下选项： <ul style="list-style-type: none"> ◦ Average: 平均值。 ◦ Minimum: 最小值。 ◦ Maximum: 最大值。

参数	参数说明
Escalations.Info.ComparisonOperator	Info级别阈值比较符。您可以根据以下规则进行选择： <ul style="list-style-type: none"> ○ GreaterThanOrEqualToThreshold: 大于等于。 ○ GreaterThanThreshold: 大于。 ○ LessThanOrEqualToThreshold: 小于等于。 ○ LessThanThreshold: 小于。 ○ NotEqualToThreshold: 不等于。 ○ GreaterThanYesterday: 同比昨天时间上涨。 ○ LessThanYesterday: 同比昨天时间下降。 ○ GreaterThanLastWeek: 同比上周同一时间上涨。 ○ LessThanLastWeek: 同比上周同一时间下降。 ○ GreaterThanLastPeriod: 环比上周期上涨。 ○ LessThanLastPeriod: 环比上周期下降。
Escalations.Info.Threshold	Info级别报警阈值。
Escalations.Info.Times	Info级别报警重试次数。

请求示例：

```

http(s)://[Endpoint]/?Action=PutResourceMetricRule
&ContactGroups=doctestgroup
&MetricName=UnhealthyServerCount
&Namespace=acs_slb_dashboard
&Resources=[{"instanceId":"lb-bp1rbwvouuyipbc*****}]
&Escalations.Critical.Statistics=Minimum
&Escalations.Critical.ComparisonOperator=GreaterThanOrEqualToThreshold
&Escalations.Critical.Threshold=100
&Escalations.Warn.Statistics=Average
&Escalations.Warn.ComparisonOperator=GreaterThanOrEqualToThreshold
&Escalations.Warn.Threshold=30
&Escalations.Info.Statistics=Maximum
&Escalations.Info.ComparisonOperator=30
&Escalations.Info.Threshold=30
&<公共请求参数>
    
```

2. 根据返回示例的**Success**值，判断报警规则是否创建成功。返回示例：

```
{
  "Message": "",
  "RequestId": "C65B0B84-DDE8-4DCA-8663-5836773102D4",
  "Success": true,
  "Code": "200"
}
```

DescribeMetricRuleList

调用DescribeMetricRuleList接口查询报警规则列表，详情请参见[DescribeMetricRuleList](#)。

1. 在请求参数中，设置负载均衡的数据命名空间和报警项，查看报警项详细信息。本示例需要设置以下参数，其他参数可以保持默认值：
 - **Namespace**：设置负载均衡的数据命名空间acs_slb_dashboard。
 - **MetricName**：设置需要查询的报警项。

请求参数：

```
http(s)://[Endpoint]/?Action=DescribeMetricRuleList
&Namespace=acs_slb_dashboard
&MetricName=UnhealthyServerCount
&<公共请求参数>
```

2. 根据返回参数，查看本示例中设置的报警项详情。返回示例：

```
{
  "RequestId": "F249E314-1763-4662-A347-BD54C739191E",
  "Total": 1,
  "Alarms": {
    "Alarm": [
      {
        "GroupName": "",
        "SilenceTime": 86400,
        "ContactGroups": "doctestgroup",
        "NoEffectiveInterval": "",
        "MailSubject": "${serviceType}-${metricName}-${levelDescription}通知 (${dimensions})",
        "RuleId": "123",
        "SourceType": "METRIC",
        "Period": 300,
        "Dimensions": "",
        "EffectiveInterval": "",
        "Namespace": "acs_slb_dashboard",
        "AlertState": "INSUFFICIENT_DATA",
        "GroupId": "",
        "MetricName": "UnhealthyServerCount"
```

```

    "MetricName": "UnhealthyServerCount",
    "EnableState": true,
    "Escalations": {
      "Critical": {},
      "Info": {
        "ComparisonOperator": "LessThanThreshold",
        "Times": 3,
        "Statistics": "Average",
        "Threshold": "3"
      },
      "Warn": {
        "ComparisonOperator": "GreaterThanThreshold",
        "Times": 3,
        "Statistics": "Average",
        "Threshold": "10"
      }
    },
    "Webhook": "",
    "Resources": "[{\\"instanceId\\":\\"lb-bp1rbwvouuyipbc****\\"}]",
    "RuleName": "UnhealthyServerCount"
  }
]
},
"Code": "200",
"Success": true
}

```

3.3. 通过SDK设置报警规则

本节介绍如何通过SDK给负载均衡的监控项设置报警规则。

前提条件

- 已知负载均衡在云监控中设置报警的产品标签SLB。
- 已知云监控中负载均衡的数据命名空间Namespace为 `acs_slb_dashboard`，获取方式请参见 [DescribeProjectMeta](#)。

背景信息

通过API设置报警规则的流程，如下图所示。



流程说明如下：

1. （可选）调用DescribeMetricMetaList查询云监控开放的SLB时序类指标监控项描述或直接查看监控项说明，详情参见[监控报警项说明](#)。
2. 调用PutContact创建或修改报警联系人信息。
3. 调用PutContactGroup创建或修改报警联系人组。
4. 调用PutResourceMetricRule接口对单个资源的性能指标设置阈值报警规则。
5. 调用DescribeMetricRuleList接口查询报警规则列表。

Python

示例：为已经配置了TCP监听的实例（ID: lb-bp13hithhod4aoxc****）设置三种级别的后端异常ECS阈值报警规则（Critical、Warn和Info）。

```
from aliyunsdkcms.request.v20190101 import DescribeMetricMetaListRequest, PutContactRequest, PutContactGroupRequest, \
    PutResourceMetricRuleRequest, DescribeMetricRuleListRequest
from aliyunsdkcore.client import AcsClient
import json, uuid

if __name__ == '__main__':
    # 1.初始化SDK
    ACS_CLIENT = AcsClient(
        'LTAI4FicM86BTPDyP****', # your-access-key-id
        'VRj7d6LOl2ZyFyfYTWYzGk0e****', # your-access-key-secret
        'cn-hangzhou', # your-region-id
    )

    # 命名空间
    namespace = "acs_slb_dashboard"

    # 2.查询云监控开放的时序类指标监控项描述
    describeMetricMetaListRequest = DescribeMetricMetaListRequest.DescribeMetricMetaListRequest()
    # 设置命名空间
    describeMetricMetaListRequest.set_Namespace(namespace)
    # 分页大小，默认30
    describeMetricMetaListRequest.set_PageSize(100)
    describeMetricMetaListResponse = ACS_CLIENT.do_action_with_exception(describeMetricMetaListRequest)
    print(json.loads(describeMetricMetaListResponse))

    # 3.创建报警联系人
    putContactRequest = PutContactRequest.PutContactRequest()
    # 报警联系人姓名
```

```
# 取言歌尔八短口
putContactRequest.set_ContactName("doctest")
# 备注
putContactRequest.set_Describe("doctest")
# Email地址
putContactRequest.set_ChannelsMail("test@example.com")
putContactResponse = ACS_CLIENT.do_action_with_exception(putContactRequest)
print(json.loads(putContactResponse))

# 4.创建报警联系人组
putContactGroupRequest = PutContactGroupRequest.PutContactGroupRequest()
# 报警联系人组名称
putContactGroupRequest.set_ContactGroupName("默认报警联系人组")
# 报警联系人组描述信息
putContactGroupRequest.set_Describe("默认报警联系人组")
putContactGroupRequest.set_ContactNames(["doctest"])
putContactGroupResponse = ACS_CLIENT.do_action_with_exception(putContactGroupRequest)
print(json.loads(putContactGroupResponse))

# 5.对单个资源的性能指标设置阈值报警规则
putResourceMetricRuleRequest = PutResourceMetricRuleRequest.PutResourceMetricRuleRequest()
# 自定义报警规则ID
putResourceMetricRuleRequest.set_RuleId(uuid.uuid1())
# 报警规则名称
putResourceMetricRuleRequest.set_RuleName("slb后端异常报警")
# 报警联系人组，多个联系人组之间用英文逗号分隔
putResourceMetricRuleRequest.set_ContactGroups("默认报警联系人组")
# 设置负载均衡产品的数据命名空间acs_slb_dashboard
putResourceMetricRuleRequest.set_Namespace(namespace)
# 监控项名称，UnhealthyServerCount：后端异常ECS实例个数
putResourceMetricRuleRequest.set_MetricName("UnhealthyServerCount")
# 需要报警的资源
putResourceMetricRuleRequest.set_Resources("[{'instanceId':'lb-bp13hithod*****}']")

# Critical级别报警设置
# Critical级别报警统计方法，Average：平均值
putResourceMetricRuleRequest.set_EscalationsCriticalStatistics("Average")
# Critical级别阈值比较符，GreaterThanOrEqualToThreshold：大于等于
putResourceMetricRuleRequest.set_EscalationsCriticalComparisonOperator("GreaterThanOrEqualToThreshold")
# Critical级别报警阈值
```



```
putResourceMetricRuleRequest.set_EscalationsCriticalThreshold("2")
# Critical级别报警重试次数
putResourceMetricRuleRequest.set_EscalationsCriticalTimes(5)

# Info级别报警设置
# Info级别报警统计方法, Average: 平均值
putResourceMetricRuleRequest.set_EscalationsInfoStatistics("Average")
# Info级别阈值比较符, GreaterThanOrEqualToThreshold: 大于等于
putResourceMetricRuleRequest.set_EscalationsInfoComparisonOperator("GreaterThanOrEqualToThreshold")
# Info级别报警阈值
putResourceMetricRuleRequest.set_EscalationsInfoThreshold("1")
# Info级别报警重试次数
putResourceMetricRuleRequest.set_EscalationsInfoTimes(5)

# Warn级别报警设置
# Warn级别报警统计方法, Average: 平均值
putResourceMetricRuleRequest.set_EscalationsWarnStatistics("Average")
# Warn级别阈值比较符, GreaterThanOrEqualToThreshold: 大于等于
putResourceMetricRuleRequest.set_EscalationsWarnComparisonOperator("GreaterThanOrEqualToThreshold")
# Warn级别报警阈值
putResourceMetricRuleRequest.set_EscalationsWarnThreshold("1")
# Warn级别报警重试次数
putResourceMetricRuleRequest.set_EscalationsWarnTimes(5)

putResourceMetricRuleResponse = ACS_CLIENT.do_action_with_exception(putResourceMetricRuleRequest)
print(json.loads(putResourceMetricRuleResponse))

# 6.查询报警规则列表
describeMetricRuleListRequest = DescribeMetricRuleListRequest.DescribeMetricRuleListRequest()
# 设置负载均衡的数据命名空间acs_slb_dashboard
describeMetricRuleListRequest.set_Namespace(namespace)
# 设置需要查询的报警项
describeMetricRuleListRequest.set_MetricName("UnhealthyServerCount")
describeMetricRuleListResponse = ACS_CLIENT.do_action_with_exception(describeMetricRuleListRequest)
print(json.loads(describeMetricRuleListResponse))
```

Java

示例：为已经配置了TCP监听的实例（ID：lb-bp13hithhod4aoxc****）设置三种级别的后端异常ECS阈值报警规则（Critical、Warn和Info）。

```
package com.aliyun.cms;

import com.aliyun.CommonConfig;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.cms.model.v20190101.*;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.profile.DefaultProfile;
import com.google.gson.Gson;

import java.util.ArrayList;
import java.util.List;
import java.util.UUID;

public class CreateMetricRuleDemo {

    public static void main(String[] args) throws ClientException {
        // 1.初始化SDK
        DefaultProfile profile = DefaultProfile.getProfile(
            "cn-hangzhou", // 地域ID
            CommonConfig.ACCESSKEY_ID, // 您的AccessKey ID
            CommonConfig.ACCESSKEY_SECRET); // 您的AccessKey Secret
        IAcsClient client = new DefaultAcsClient(profile);

        // 命名空间
        String namespace = "acs_slb_dashboard";
        Gson gson = new Gson();

        // 2.查询云监控开放的时序类指标监控项描述
        DescribeMetricMetaListRequest describeMetricMetaListRequest = new DescribeMetricMetaListRequest();
        // 设置命名空间
        describeMetricMetaListRequest.setNamespace(namespace);
        // 分页大小，默认30
        describeMetricMetaListRequest.setPageSize(100);
        DescribeMetricMetaListResponse describeMetricMetaListResponse = client.getAcsResponse(desc
```

```
ribeMetricMetaListRequest);
    System.out.println(gson.toJson(describeMetricMetaListResponse));

    // 3.创建报警联系人
    PutContactRequest putContactRequest = new PutContactRequest();
    // 报警联系人姓名
    putContactRequest.setContactName("doctest");
    // 备注
    putContactRequest.setDescribe("doctest");
    // Email地址
    putContactRequest.setChannelsMail("test@example.com");
    PutContactResponse putContactResponse = client.getAcsResponse(putContactRequest);
    System.out.println(gson.toJson(putContactResponse));

    // 4.创建报警联系人组
    PutContactGroupRequest putContactGroupRequest = new PutContactGroupRequest();
    // 报警联系人组名称
    putContactGroupRequest.setContactGroupName("默认报警联系人组");
    // 报警联系人组描述信息
    putContactGroupRequest.setDescribe("默认报警联系人组");
    // 报警联系人列表
    List<String> contactNames = new ArrayList<>();
    contactNames.add("doctest");
    putContactGroupRequest.setContactNames(contactNames);
    PutContactGroupResponse putContactGroupResponse = client.getAcsResponse(putContactGroupRequest);
    System.out.println(gson.toJson(putContactGroupResponse));

    // 5.对单个资源的性能指标设置阈值报警规则
    PutResourceMetricRuleRequest putResourceMetricRuleRequest = new PutResourceMetricRuleRequest();
    // 生成全小写字母且不带短横线的UUID, 作为报警规则的唯一ID
    String uuid = UUID.randomUUID().toString().replace("-", "").toLowerCase();
    // 自定义报警规则ID
    putResourceMetricRuleRequest.setRuleId(uuid);
    // 报警规则名称
    putResourceMetricRuleRequest.setRuleName("slb后端异常报警");
    // 报警联系人组, 多个联系人组之间用英文逗号分隔
```

```
putResourceMetricRuleRequest.setContactGroups("默认报警联系人组");
// 设置负载均衡产品的数据命名空间acs_slb_dashboard
putResourceMetricRuleRequest.setNamespace(namespace);
// 监控项名称, UnhealthyServerCount: 后端异常ECS实例个数
putResourceMetricRuleRequest.setMetricName("UnhealthyServerCount");
// 需要报警的资源
putResourceMetricRuleRequest.setResources("[{\"instanceId\": \"lb-bp13hithhod4aoxc****\"}]);

// Critical级别报警设置
// Critical级别报警统计方法, Average: 平均值
putResourceMetricRuleRequest.setEscalationsCriticalStatistics("Average");
// Critical级别阈值比较符, GreaterThanOrEqualToThreshold: 大于等于
putResourceMetricRuleRequest.setEscalationsCriticalComparisonOperator("GreaterThanOrEqualToThreshold");
// Critical级别报警阈值
putResourceMetricRuleRequest.setEscalationsCriticalThreshold("2");
// Critical级别报警重试次数
putResourceMetricRuleRequest.setEscalationsCriticalTimes(5);

// Info级别报警设置
// Info级别报警统计方法, Average: 平均值
putResourceMetricRuleRequest.setEscalationsInfoStatistics("Average");
// Info级别阈值比较符, GreaterThanOrEqualToThreshold: 大于等于
putResourceMetricRuleRequest.setEscalationsInfoComparisonOperator("GreaterThanOrEqualToThreshold");
// Info级别报警阈值
putResourceMetricRuleRequest.setEscalationsInfoThreshold("1");
// Info级别报警重试次数
putResourceMetricRuleRequest.setEscalationsInfoTimes(5);

// Warn级别报警设置
// Warn级别报警统计方法, Average: 平均值
putResourceMetricRuleRequest.setEscalationsWarnStatistics("Average");
// Warn级别阈值比较符, GreaterThanOrEqualToThreshold: 大于等于
putResourceMetricRuleRequest.setEscalationsWarnComparisonOperator("GreaterThanOrEqualToThreshold");
// Warn级别报警阈值
putResourceMetricRuleRequest.setEscalationsWarnThreshold("1");
// Warn级别报警重试次数
putResourceMetricRuleRequest.setEscalationsWarnTimes(5);
```

```

PutResourceMetricRuleResponse putResourceMetricRuleResponse = client.getAcsResponse(putResourceMetricRuleRequest);
System.out.println(gson.toJson(putResourceMetricRuleResponse));

// 6.查询报警规则列表
DescribeMetricRuleListRequest describeMetricRuleListRequest = new DescribeMetricRuleListRequest();
// 设置负载均衡的数据命名空间acs_slb_dashboard
describeMetricRuleListRequest.setNamespace(namespace);
// 设置需要查询的报警项
describeMetricRuleListRequest.setMetricName("UnhealthyServerCount");
DescribeMetricRuleListResponse describeMetricRuleListResponse = client.getAcsResponse(describeMetricRuleListRequest);
System.out.println(gson.toJson(describeMetricRuleListResponse));
}
}

```

返回结果

SDK返回结果如下：

```

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