

Cloud Load Balance Monitoring and Alarm Product Introduction



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Monitoring and Alarm Overview

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Overview

Tencent Cloud's Cloud Monitor provides data collection and presentation features for load balancer and backend instances. With Tencent Cloud's Cloud Monitor, you can view the statistical data of a load balancer, verify whether the system is running normally and create relevant alarms. For more information on Cloud Monitor, please see [Cloud Monitor Product Documentation](#).

Monitoring the running status of **public network application-based, public network IP-based and private network-based load balancers** with Cloud Monitor is supported. You can also check the status by clicking the monitoring icon on the load balancer instance list page or by clicking **Listener Monitoring** on the load balancer instance details page.

Monitoring

Public network application-based, public network IP-based and private network-based load balancers support displaying monitoring views from the following four dimensions:

- Load balancer instance
- Listener
- RS
- RS port

The specific monitoring metrics of different dimensions for load balancer are as follows:

Item	Unit	Description
Number of public network connections	count	Statistics of TCP connections established
Public network inbound bandwidth	bps	Statistics of bandwidth used by the public network access to load balancer
Public network outbound bandwidth	bps	Statistics of bandwidth used by the public network access from load balancer

Item	Unit	Description
Inbound packets of public network	count/sec	Number of request packets received by load balancer per second
Outbound packets of public network	count/sec	Number of request packets sent from load balancer per second
Number of new public network connections	count/sec	Number of TCP connections created per second

For more information on monitoring metrics and how to obtain the monitoring data of RS, please see [Monitor CVM](#).

Cloud Monitor collects original data from a running load balancer instance and displays the data in the form of readable icon. Statistics are retained for a month by default so that you can observe the running status of your instances during the month, and have a better understanding of the running status of your applications and services.

For more detailed monitoring data, CLB product supports data monitoring at a shorter granularity period of 1 minute, and horizontal comparison of monitoring data of the same dimension in different time periods.

The console pages of different products may show a series of tables and diagrams based on raw data from Cloud Monitor. The Cloud Monitor console summarizes the monitoring data from all products to give you an overall view of the running status. You can obtain instances' status data from different entries based on your specific needs.

Alarm

You can create alarms for instance metrics of your concern. When a load balancer instance's running status meets a specific condition, an alarm message is sent to relevant users in time. By this way, you can detect exceptions in real time and take appropriate measures to ensure the stability and reliability for the system. For more information, please see [Create Alarm](#).

Public network application-based, public network IP-based and private network-based load balancers support displaying alarms from the following two dimensions:

- Listener
- RS port

The specific monitoring metrics of a load balancer alarm are as follows:

Item	Unit	Description
Public network inbound bandwidth	bps	Statistics of bandwidth used by the public network access to load balancer
Public network outbound bandwidth	bps	Statistics of bandwidth used by the public network access from load balancer
Inbound packets of public network	count/sec	Number of request packets received by load balancer per second
Outbound packets of public network	count/sec	Number of request packets sent from load balancer per second

Obtaining Monitoring Data

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Tencent Cloud provides Cloud Monitor feature for all users by default, so you do not need to enable it manually. When you use CLB, Cloud Monitor can help you collect relevant monitoring data.

You can view the monitoring data of your load balancers in the following ways:

CLB Console

- 1) Log in to the [CLB Console](#) and click the ID of a load balancer instance to enter its details page.
- 2) Click the **Listener Monitoring** tab to check the monitoring data of the current load balancer instance.

Note: Tencent Cloud Monitor supports collecting monitoring data every minute or every 5 minutes. Default is every 5 minutes. In different display modes, the metrics are displayed differently. For example, in the "past hour" display mode, the monitoring data is displayed in their original 5-minute granularity. In the "past month" display mode, the monitoring data is displayed in 1-day granularity (average data for each day).

Cloud Monitor Console

Log in to the [Cloud Monitor console](#), click **Cloud Product Monitoring** -> **Cloud Load Balance**, click the ID of **public network application-based/public network (with static IP)/private network-based** load balancer instance to enter the monitoring details page to check its monitoring data.

API Method

Please see the [API GetMonitorData](#).

Configuring Alarms

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You can create an alarm to send warning messages to specified users once the alarm is triggered when a cloud product's running status meets a specific condition. The created alarm determines whether an alarm-related notification needs to be triggered according to the comparison results between a monitored metric and a specific threshold at every interval.

You can take precautionary or remedial measures in a timely manner when an alarm is triggered by the status change of your cloud product. Therefore, creating a valid alarm can help you improve your application's robustness and reliability. For more information on alarm, please see [Create Alarm](#).

Creating an Alarm Policy

The specific procedure is as follows:

1. Log in to [Tencent Cloud Console](#), click **Cloud Monitor** -> **My Alarms** tab, and then click **Alarm Policy** menu.
2. Click **New Alarm Policy** button on the alarm policy list page.
3. In the pop-up box, enter the policy name, select a policy type (load balancer-public network/private network-listener/RS port) and choose the triggering condition.

The triggering condition is a semantic condition consisting of metric, comparison relation, threshold, measurement period and number of consecutive periods.

For example, if the metric is `number of inbound packets`, the comparison relation is `>`, the threshold is `100/sec`, the measurement period is `1 minute` and the number of consecutive periods is `2 periods`, it means that the number of inbound packets is collected once every minute. If the inbound packets of a load balancer instance listener/RS port is measured as more than 100/sec for twice in succession, an alarm will be triggered.

Associating an Object

1. Log in to [Tencent Cloud Console](#), click **Cloud Monitor** -> **My Alarms** tab, and then click **Alarm Policy** menu.

2. On the alarm policy list page, click the newly created alarm policy to enter its details page, then click **Add Association** button and select the cloud product you want to monitor (here we select load balancer in the list for monitoring), and click **Apply** button.

Setting Alarm Receiver

1. Log in to [Tencent Cloud Console](#), click **Cloud Monitor** -> **My Alarms** tab, and then click **Alarm Policy** menu.
2. Click the created alarm policy to enter its details page, then click **Manage Alarm Receiving Group** button, and check the user groups that need to be notified.

Each alarm policy is a set of triggering conditions with the logic relationship "or", that is, an alarm is triggered when one of the conditions is met. The alarm is sent to all users associated with the alarm policy. Upon receiving the alarm, the user can view the alarm and take appropriate actions in time.