

Flow Logs

Directions

Product Documentation



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Contents

Directions

Operation Overview

Creating Logsets and Log Topics

Managing Logs

 Create flow logs

 Delete Flow Logs

 Viewing Flow Log Records

Log Topic

Advanced Analysis Dashboard

Directions

Operation Overview

Last updated : 2024-01-10 16:10:45

You may need to create or delete a flow log, create a logset and log topic, or view flow log records when using Flow Logs service. This document describes how to work with Flow Logs and relevant products.

Common operations

[Create a flow log](#)

[Create a logset and a log topic](#)

[Delete a flow log](#)

[View flow log records](#)

Creating Logsets and Log Topics

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You need to create logsets and log topics to store and view the flow logs.

Logset: Specifies the storage location in CLS for flow logs.

Log topic: Specifies the minimum dimension of log storage, which is used to distinguish log types, such as `Accept` log.

Note:

This document describes how to create logsets and log topics that are not marked with `Flowlog`. These logsets and log topics cannot be used to create and use the advanced analysis dashboards.

Directions

1. Log in to the [CLS console](#) and click **Log topic** on the left sidebar to access the **Log topic** page.
2. Select a desired region at the top of the page and click **Create log topic**.
3. In the pop-up window, enter log topic name and partition, and click **OK**.

Log Topic Name: For example, enter `nginx`.

Storage Class: Select Real-time or Offline as needed.

Log Retention Period: Enter an integer between 1-3600. It defaults to 30.

Logset Operation:

Select an existing logset: Select a target logset from the drop-down list of the Logset. The log retention period is subject to the logset retention period.

Create a logset: Specify a logset name, for example, `cls_test`.

Partitions: Enter a positive integer. It defaults to 1. For more information about topic partitions, see [Topic Partition](#).

Partition Auto-Split: Enabled by default.

Maximum Partitions: Enter an integer up to 50.

Note:

After the auto-split feature is enabled, CLS will automatically split a log topic into partitions (up to 50) when the write requests or write traffic exceed the capacity of the log topic.

If the number of partitions of a log topic has reached the set maximum value, CLS will no longer trigger auto-split, and the excessive partitions will be rejected with an [error code](#) returned.

4. On the details page of the log topic, select the **Index Configuration** tab and click **Edit** in the top-right corner.

Basic Info Collection Configuration **Index Configuration** Ship to COS Ship to CKafka Function Processing

- 1. Enable full-text index or key-value index, or both. You cannot search for collected log data when index is disabled.
- 2. Modified index rules will take effect for newly written data, not parsed data.
- 3. When the statistics feature is enabled for a key-value field, the separators are invalid for it.
- 4. For how to configure indexes, please see [Documentation](#).
- 5. To use SQL for statistical analysis for an index field, enable statistics for it first. For details, please see [Documentation](#).

Index Configuration

5. Enable the index feature and click **OK**. Now you can view and search for flow logs.

Note:

You do not need to install agents or care about the server group status.

If you do not need to publish flow logs to services such as [COS](#), ignore shipping task.

Index Configuration

Index Status



Full-Text Index ⓘ



☐ Case sensitive

Full-Text Delimiter ⓘ

@&()=',';<>[]{}/\n\t\r\

Key-Value Index ⓘ



☒ Case sensitive

Managing Logs

Create flow logs

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This document describes how to create a flow log policy to collect flow logs of ENIs, NAT gateway and CCN cross-region connections.

Note:

The FL service for NAT gateway and CCN cross-region connections is currently in beta. To try it out, please [submit a ticket](#).

Prerequisites

You have created a logset and log topic:

The Advanced analysis dashboard is only available for “flowlog_logset” logsets marked with “Flowlog” and the log topics under them. For more information, see [Configuring Logsets and Log Topics](#).

If you do not use the advanced analysis dashboard, you can select any logset and log topic. You can [Create Logsets and Log Topics](#) without the “Flowlog” mark via the CLS console, or [Configure Logsets and Log Topics](#) with the “Flowlog” mark via the FL console.

Directions

Creating a flow log policy

1. Log in to the [VPC console](#) and select **Flow Log** > **Flow Log** in the left sidebar.
2. In the upper-left corner of the **Flow Logs** page, choose the target region. Click **+ New** and configure the following parameters in the pop-up dialog box.

Field	Description
Name	The name of the flow log policy.
Collection range	This specifies the collection range of the flow log policy. ENI, NAT gateway and CCN are supported.
VPC	The VPC where the flow logs are collected.
Subnet	The subnet where the flow logs are collected.
Collection	This specifies the type of traffic to be collected by the flow log: All traffic, or the traffic rejected or

type	accepted by security groups or ACL.
Logset	This specifies the storage location in CLS for the flow log.
Log topic	This specifies the minimum dimension of log storage, which is used to distinguish log types, such as "Accept" log.
Tag key	An optional parameter. You can create a tag key or select an existing one. It is used for locating and managing flow logs.
Tag value	An optional parameter. You can create a tag value or select an existing one. You can also leave it empty.

3. Click **OK**.

Note:

You can view the record of a newly created flow log in CLS after several minutes upon the creation (for example, for a flow log of an ENI, 5 minutes for the capture window and 5 minutes for data publishing).

FL service is free of charge, but you need to pay for the data stored in CLS. See [Billing Overview](#).

Viewing log information

1. About 10 minutes after the flow log is created, click **View** at the right of the target flow log to enter the **Search and analysis** page in CLS.

2. On this page, you can select the region, logset, log topic and time. You can also customize the filter conditions.

Click **Search and analysis** to query the log information under specified conditions.

Note:

Click **Index configuration** to confirm that the index has been enabled. If it is disabled, you are unable to search the collected log data.

Delete Flow Logs

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Tencent Cloud Flow Logs (FL) provides you with a full-time, full-flow, and non-intrusive traffic collection service. FL enables you to store and analyze network traffic in real time for assistance with troubleshooting, compliance auditing, architecture optimization, and security detection. With FL, your cloud networks will become more stable, secure, and intelligent. The service will be unavailable if you delete flow logs.

You can delete flow logs by the following steps:

1. Log in to the [VPC Console](#) and click **Diagnostic Tools > Flow Logs** on the left sidebar.
2. Select flow logs to be deleted and click **Delete**.

Note:

When a flow log is deleted, its logset and log topic are not deleted synchronously.

Viewing Flow Log Records

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Go to the CLS console to check flow logs. You can select multiple topics in the same logset to query the logs at the same time. For more information, see [Log Search](#).

Note:

For description of FL fields, see [Flow Log Record](#).

Log Topic

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This document describes how to create logsets and log topics specific to FL. All of these logsets and log topics are marked with “Flowlog”. The dashboard can be created only for those logsets and log topics to view the FL data of ENIs.

Procedure

1. Role authorization
2. Create a logset
3. Create a log topic
4. Search a log record/Delete a log topic

Directions

Role authorization

If you are creating a logset and log topic on this page for the first time, please complete the role authorization as instructed.

1. Log in to the [VPC console](#) and select **Flow Logs > Logs** in the left sidebar. Click **Go to authorization** in the pop-up dialog box.
2. Click **Grant**.
3. Click **Authorization completed**.

Creating a logset

Note:

Only one “flowlog_logset” logset can be created under a region.

1. Log in to the [VPC console](#) and select **Flow Log > Topic** in the left sidebar.
2. On the page that appears, click **Create a logset** and then click **OK**. The logset “flowlog_logset” is created automatically.

Creating a log topic

1. Click **+ New** in the log topic section.
2. In the “Add a log topic” dialog box that pops up, configure the log topic.

Parameter description:

Topic name: The custom log topic name.

FL type: ENI.

Retention period: The custom log retention period. At least one day is required.

3. Click **OK**.

Searching a log record

1. Click **Search** on the right of the log topic.

2. You will be directed to the search and analysis page in CLS, where you can view the log records of the log topic.

Deleting a log topic

Note:

The log topic can be deleted only when no record of the log topic exists.

1. Click **Delete** on the right of the log topic.

2. Click **OK** in the pop-up dialog box.

Advanced Analysis Dashboard

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Advanced Analysis provides intuitive and clear log records on the dashboard to help you locate issues quickly. You can create a dashboard and view the analysis data of the flow logs of ENIs under the logset "flowlog_logset" on the dashboard.

Prerequisites

You have created the logset "flowlog_logset" and its log topic. After that, a dashboard corresponding to the log topic will be created automatically. You can [view the dashboard data](#) on the advanced analysis page.

View Dashboard Data

1. Log in to the [VPC console](#) and select **Flow Logs > Advanced Analysis** in the left sidebar.
2. Select the region, log topic and query period. The log record based on the specified conditions will be displayed.

Create a Dashboard

If the dashboard is deleted in the CLS, or it is failed to be created automatically, you can refer to this section to [create a dashboard](#).

1. Log in to the [VPC console](#) and select **Flow Logs > Advanced Analysis** in the left sidebar.
2. Select the region and log topic. Click **Create**.