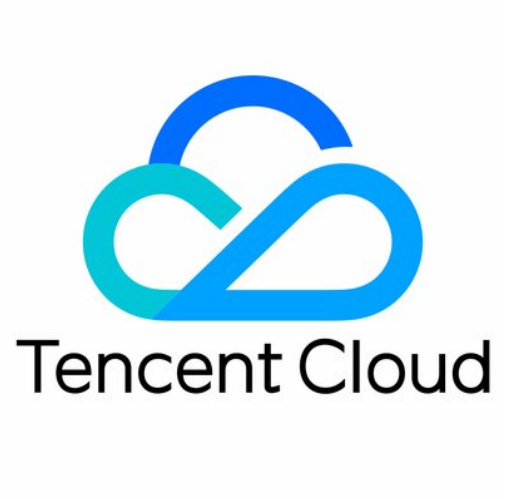
Stream Compute Service

Product Introduction

Product Documentation



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Product Introduction

Overview

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Tencent Cloud Stream Compute Service (SCS) is a cloud-based service that aggregates and computes streaming data. In just a few minutes, you can easily build stream computing applications such as website clickstream analysis, accurate ecommerce recommendation, real-time financial risk control, etc. The fully managed SCS can scale your computing resources up and down in real time, eliminating your need for the infrastructure OPS. In addition, SCS can easily access data sources in the cloud to provide you with complete support.

You can manage stream data input, write SQL analytical statements and configure the output of analysis results on the console. Depending on your configurations, computing resources are elastically scaled when your SCS analytical instances are running.

SCS is postpaid by hour, meaning that you only need to pay for the computing resources you consume. Currently, SCS is during promotion period and you can apply for a trial use and experience it for free once approved.

Benefits

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Tencent Cloud SCS provides powerful capacities to aggregate and compute streaming cloud data, and allows you to analyze data by writing SQL.

Real-time Computing

SCS provides millisecond-level computing capabilities. By writing SQL statements, you can compute the data entering SCS in real time without having to develop complex code, so that you can respond to ever-changing business scenarios with accuracy and ease.

SCS immediately initiates a computing task for each incoming data item, meaning that incoming data is computed in real time. If the data stream goes uninterrupted, real-time computing will continue forever.

Ultimate Elasticity

SCS detects whether the stream computing resources in use match the data traffic. If processing cannot keep up with data inflows, new computing resources will be added for computation. Likewise, computing resources will be reduced when data inflows are less heavy. The entire process requires no manual intervention, and the scope of scaling is controlled by predefined configurations. This helps you fast respond to the demands in business growth and decrease the overall cost for your company.

Full-chain Coverage

SCS covers the full chain of real-time streaming data aggregation and computation. COS, CDB, CKafka and other data sources can be seamlessly accessed while achieving millisecond-level computational analysis using the visual configuration provided by the data connector and online SQL orchestration in the IDE.
You can also use SDK provided by SCS to import data from other sources.

Fully Managed Service

The fully managed SCS resides in the cloud, so you no longer need to worry about the scheduling of the underlying infrastructure and demanding daily OPS tasks. In addition to helping you quickly create a cloud-based stream computing and analysis system, SCS also allows you to focus on the development of analytical models to address ever-changing business challenges.

Security Reinforcement

SCS provides security protection for computation and data and offers computing resources to each customer in an isolated manner to avoid mutual impact. At the data security level, it furnishes a security isolation mechanism where only data sources belonging to the current account can be accessed by the computing resources. With SCS, you can rest assured that your computing and data are in good hands while enjoying all the conveniences the hosted service has to offer.

SQL Support

SCS provides an online IDE through which SQL statements can be written online and published to a live network after debugging. SCS then parses the analysis defined in SQL and begins to compute the incoming data in real time. The entire process requires no complex programming, greatly lowering the knowledge threshold for using real-time stream computing.

Scenarios

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Website Clickstream Analysis

Internet users typically click multiples times on websites when browsing. Analysis of these clickstreams makes it possible to better understand emerging topics and trends.
By taking advantage of SCS, you can build an analysis system in just minutes to perform real-time aggregation and analysis of user behavior data and continuously mine valuable information, which helps you make better operational decisions and improve user experience.

Real-time Control of Financial Risks

In the case of financial transaction, early detection of financial risks can effectively reduce losses. The combination of big data of financial transactions and SCS and introduction of feature model algorithms enable you to screen out abnormal trading behaviors such as card frauds and manage the risks for improved financial security much sooner than before.

Internet of Things (IoT) Monitoring

Early detection of potential failures during the operation of industrial equipment can greatly reduce repair costs. With SCS, data can be promptly gathered from equipment sensors for aggregation, analysis and filtering, enabling second-level alarms for equipment exceptions and improving equipment utilization.

Targeted Ecommerce Recommendations

In the ecommerce industry, SCS can be used to extract feature variables, track preferential categories and predict spending trends of users in real time to readily provide targeted recommendations for a better shopping experience and more sales revenue.