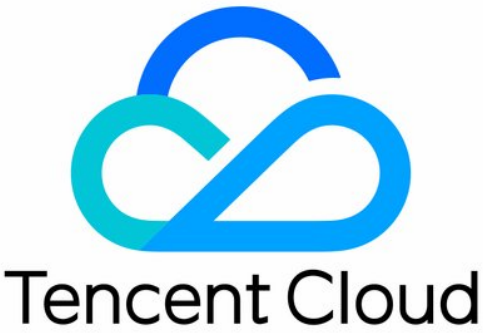
Real User Monitoring

Product Introduction

Product Documentation



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Product Introduction
Overview

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Tencent Cloud Real User Monitoring (RUM) is a one-stop solution for monitoring the performance of your web apps and mini programs. RUM gives you insights into the speed and performance of your user pages, APIs, and CDNs, and makes it easier to troubleshoot Javascript and Ajax related errors. By leveraging Tencent's many years of experience in internal business operations, it can monitor the page performance and frontend quality in real time following a non-intrusive connection with just one line of code. Simply install the SDK to your page, perform a quick setup, and start monitoring the metrics that are important to your users.

Strengths

Multi-Platform support

RUM currently supports data reporting on various platforms such as web, Hippy, mini program (WeChat and QQ), and React Native. It offers a rich set of features, including checkpoint-free firstScreenTime test, resource speed test, API speed test, allowlist, and offline log.

Non-intrusive monitoring

RUM eliminates your need to set breakpoints or perform any other operations in the business code when you use its SDK. In this way, the SDK can be fully decoupled from the business code. It automatically monitors frontend errors and reports the specific error information as soon as any error occurs, helping you quickly locate the problem. After you enable resource speed test, the SDK will automatically listen on the page resource loading status (such as loading time and success rate) and collect the frontend performance data without compromising the frontend performance. This further assists you in swiftly identifying underperforming parts and improving them for better user experience.

Low costs

RUM monitors the real user experience of web and mini program frontends at low learning costs. You can get started with it easily as long as you have basic knowledge of frontend.

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Features

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Log Reporting

Frontend developers can get the information they need by reporting any kind of data to the RUM console, including general logs, custom events, and custom speed test data.

Error Collection

RUM actively collects information about a wide variety of errors, including browser-based JavaScript code execution errors, API information errors, resource loading exceptions, and Promise exceptions.

Performance Data

RUM offers a lot of page performance metrics, including FMP, TCP connection establishment time, time to first byte (TTFB), and SSL handshake time.

Page View

RUM enables you to easily view the number of page views (PV) and unique visitors (UV) in various dimensions such as ISP, access source, and access region, so that you can stay up to date with and analyze user access in real time.

Resource Speed Test

You can perform speed testing on your images and CDN resources, allowing you to analyze resource loading speed from multiple dimensions such as region, ISP, and browser.

API Speed Test

RUM collects information about API calls from every page, including API call time and status code statistics. In this way, you can analyze API performance from multiple dimensions such as region, ISP, and browser.

Smart Alarm

Leveraging the capabilities of Tencent Cloud Montitor (CM), you can customize metrics and deliver instant, reliable alarms related to errors, page loading, and performance data.

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Use Cases

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Improved User Experience

RUM collects users' usage information in real time through the trends of changes in key performance metrics, including page error, page loading time, and API success rate, so that you can improve the page browsing experience based on such trend information and user health scores.

Troubleshooting

RUM actively collects the information of errors, such as JavaScript code errors, API information errors, resource loading exceptions, and Promise exceptions. It also monitors slow page details, such as firstScreenTime and request response. Then, it associates and analyzes exceptional metrics in multiple dimensions through the page loading waterfall plot, Core Web Vitals (views of three key network performance metrics designed by Google), and regional view to locate exception causes.

Performance Optimization

RUM supports multidimensional views by region, ISP, network, and device/machine type. You can compare and analyze frontend performance metrics based on user characteristics and views to optimize the web application performance in a more targeted manner.

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