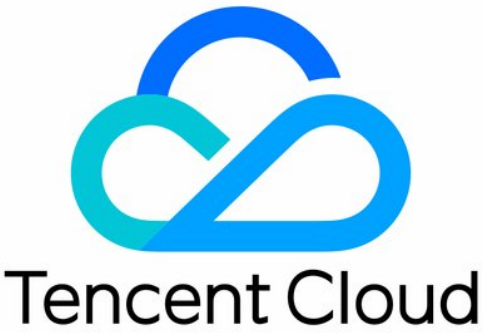
Cloud Application Rendering

Product Introduction

Product Documentation



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Product Introduction

Overview

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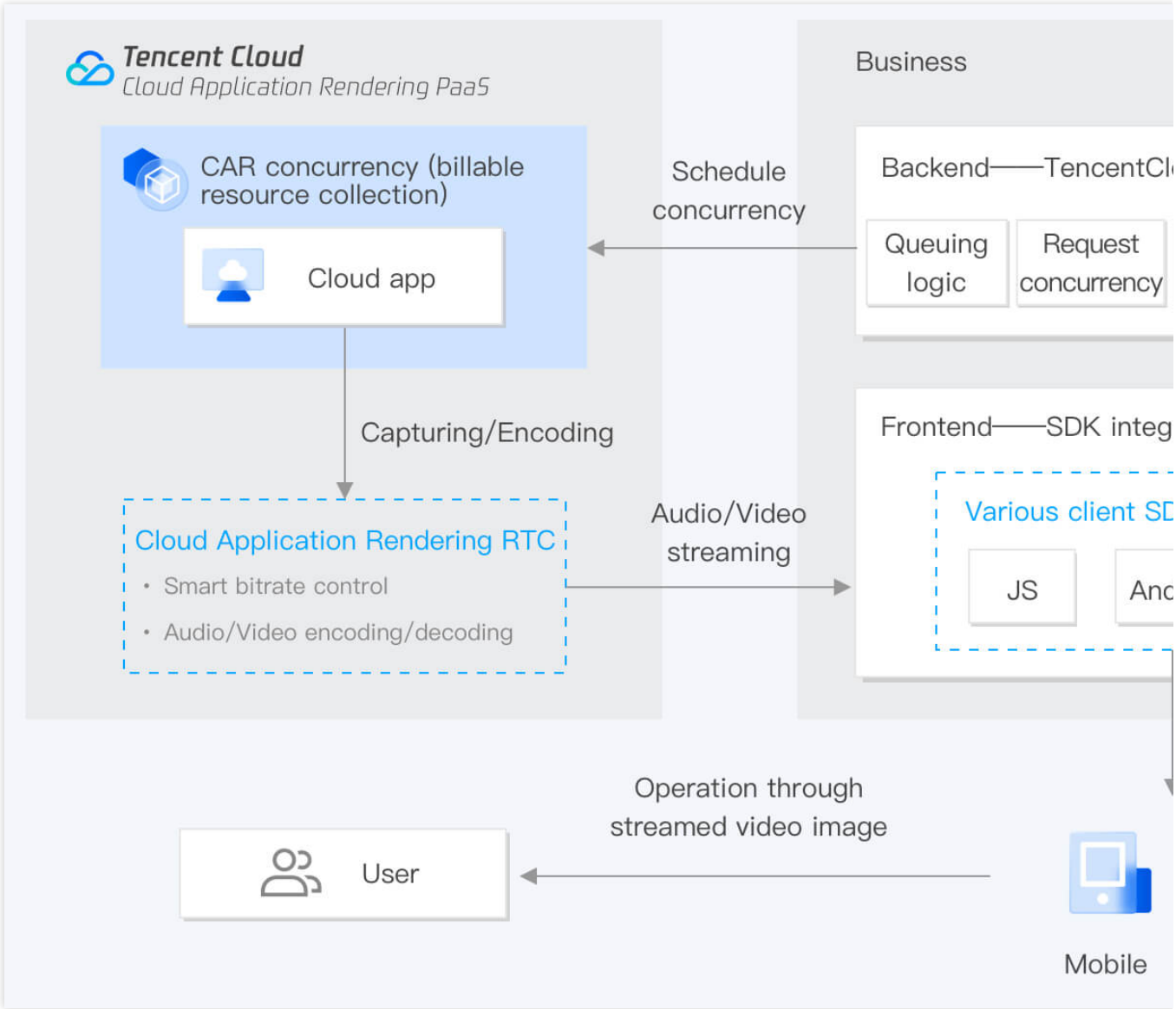
Based on Tencent Cloud's abundant edge computing nodes, flexible vGPU technology, and stable and low-latency audio/video streaming capabilities, CAR helps you cloudify your application so that users can interact with your cloud application through a streamed video with no need to download the application on their own device. CAR provides TencentCloud APIs and SDKs for various client types to support different devices in different business scenarios.



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Basic Concepts

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Real-Time Cloud Rendering

Real-Time Cloud Rendering runs your application client (application with an engine such as UE or Unity) on a cloud computing resource with GPU and enables users to access the cloud application through a video stream.

CAR concurrency

In CAR, a concurrency represents the collection of virtual computing resources, including CPU, bandwidth, disk, and GPU, required for one user to render your application content. When you purchase a concurrency pack, you can select the resources and the number of concurrencies. Each concurrency supports one user to access your application. Currently, concurrency packs are prepaid in a monthly or daily subscribed manner.

Application upload

In the CAR console, you can upload your application and perform operations such as update and version management.

Project management

A project is a direct management object for Real-Time Cloud Rendering maintenance. A project needs to be associated with an application, and you can allocate a concurrency pack to a project based on your business needs.

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Strengths

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Low latency

CAR adopts Tencent Cloud's proprietary Real-Time Cloud Rendering RTC technology and is optimized specifically for real-time cloud application rendering scenarios.

High image quality

Based on the smart dynamic encoding technology of Media Processing Service (MPS), CAR can achieve a higher image quality at the same bitrate, delivering an amazing visual experience with less bandwidth usage.

Guaranteed experience under poor network conditions

Based on adaptive encoding and elastic frame rate as well as supporting technologies such as RTC bandwidth assessment, packet retransmission, and smart bitrate control, CAR guarantees a clear and smooth viewing experience even under poor network conditions.

Quick integration for various devices

CAR provides the lightweight JavaScript SDK and other SDKs so you can implement your CAR service on PC, mobile phones, tablets, TV boxes, or other devices. You can quickly set up a CAR demo within only two to three days.

Self-service application deployment and update

CAR offers a complete set of custom capabilities such as application upload, update, and version management, so you can deploy and manage your business application easily from the CAR console.

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Use Cases

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Cloud gaming

There is no need to consider compatibility with different hardware and software platforms. Simply upload your game to CAR platform, generate a link, and enable players to enjoy AAA gaming experiences anytime, anywhere with zero installation through a web page. On various platforms with a large amount of traffic, such as advertising, live streaming, and app stores, users can try games through a web page without downloading, helping to improve conversion rates. In live-streaming scenarios, fans can even watch game broadcasts and click a link to play against the streamer instantly.

Immersive Convergence

For virtual conferences, exhibitions, and other online virtual spaces, CAR makes it easy for any user to conveniently join and experience your event in the metaverse.

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Real estate

Customers can experience and interact with life-like 3D renderings of their future homes, offices, or retail spaces. With cloud rendering, customers can view 3D spaces on any device and add custom configurations to help them with decision-making on property purchases or rentals.

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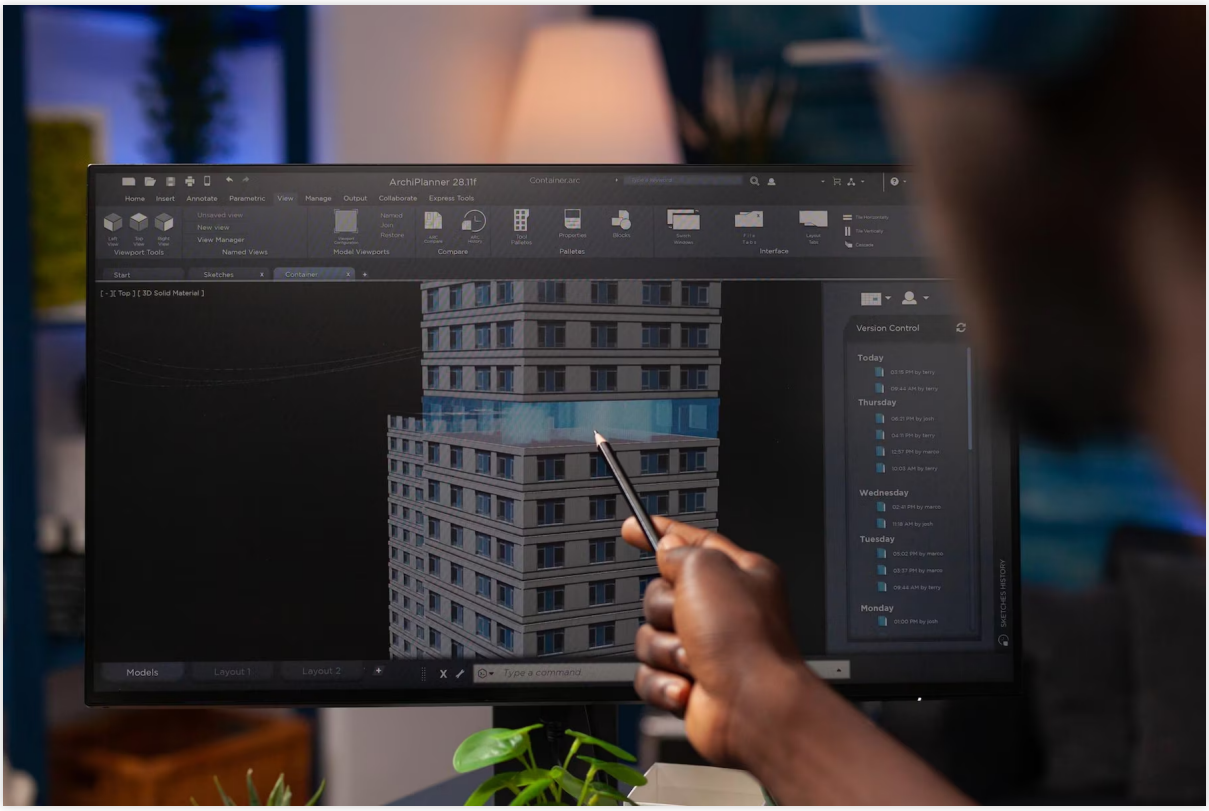

Marketing

You can render your products in a 3D application to create a unique online virtual shopping space. For example, automotive companies can use CAR to create a real-time, interactive 3D vehicle showroom in the cloud, where shoppers can quickly select and customize vehicles on any device directly from their home.

New media

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CAR helps businesses upgrade their media content and deliver news and other content to users in 3D. Users can easily view immersive 3D content through a webpage, lightweight app, or other platform from their own device and share it with others.

Healthcare and medical imaging

A medical imaging application can be connected to CAR to allow medical professionals to securely view and manipulate 2D/3D medical images anytime, anywhere, on any device and participate in collaborations, discussions, and clinical diagnoses.

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