

Cloud Native Gateway

Product Introduction

Product Documentation



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Product Overview

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Cloud Native Intelligent Gateway is a gateway product launched by Tencent Cloud. It comprises two main product lines: Cloud Native API Gateway and AI Gateway, providing enterprises with a comprehensive, intelligent traffic management solution. As the traffic entry point for cloud-based microservices and intelligent architectures, Cloud Native Intelligent Gateway integrates features such as request routing, API management, traffic monitoring, access control, model scheduling, and protocol conversion. It is a key component for enterprise digital and intelligent transformation.

Product Components

Cloud Native Gateway

Cloud Native API Gateway is a high-performance, highly available gateway product launched by Tencent Cloud based on the open-source microservices gateway, Kong. It helps reduce part of the development and Ops workload for users who build their own gateways. As the traffic entry point for cloud-based microservices architectures, it integrates features such as request routing, API management, traffic monitoring, and access control. As a core component of the infrastructure, Cloud Native API Gateway provides:

- **Traffic Gateway:** It provides unified access and intelligent scheduling for north-south traffic.
- **Microservices Gateway:** It provides east-west traffic management and inter-service communication.
- **Security Gateway:** It provides multi-layer security protection, authentication, and authorization.

AI Gateway

AI Gateway is a gateway product designed for large models and intelligent scenarios. It focuses on addressing core challenges enterprises face when enterprises access, orchestrate, and manage multiple AI models, such as protocol complexity, governance difficulties, uncontrollable costs, and high barriers to legacy system modernization. AI Gateway is designed for intelligent scenarios and includes:

- **Large Model Gateway:** It provides unified access and intelligent scheduling for multiple models.
- **MCP Gateway:** It handles AI-enabling transformation for legacy applications and protocol conversion.

By leveraging the synergy between the Cloud Native Gateway and AI Gateway product lines, it provides comprehensive API infrastructure support for enterprise digital transformation.

Strengths

Cloud Native Intelligent Gateway provides users with the capabilities of its two main product lines: Cloud Native API Gateway and AI Gateway. It helps users quickly build high-performance, highly available, and

highly elastic business gateways and intelligent traffic management architectures.

Strength	Description
Compatible with open-source Rabbit MQ.	Compatible with mainstream usage of the open-source version, reducing migration and access costs.
Rich Features	Continuously iterates based on user requirements and technology evolution trends, maintaining continuous updates and iterations of features.
High integration	Integrates with multiple Tencent Cloud services such as networking, containers, monitoring, and security, providing a one-stop solution.
High availability	Adopts a cluster deployment architecture across AZs, providing AZ-level disaster recovery capability. Under scenarios where deployment conditions are met, machine, disk, and network failures of a single node support automatic recovery.
Simple Ops	Provides a visualized and standardized Ops operation interface, reducing Ops difficulty and risk.

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Use Cases

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Unified Access for Microservice Traffic

Cloud Native Gateway serves as the north-south traffic entry point for cloud-based microservices architectures. It uniformly receives external requests and performs intelligent scheduling. The gateway integrates capabilities such as request distribution, API management, traffic monitoring, and access control. It connects to various service sources including TSF, TKE, SCF, and CVM, helping enterprises build high-performance, highly available business gateways.

Security Protection and Authentication

Cloud Native API Gateway functions as a security gateway, providing multi-layered security protection and authentication/authorization capabilities. It supports integration with Tencent Cloud Web Application Firewall (WAF) and DDoS protection services. The gateway also supports various authentication methods, including user password, Key-based authentication, JWT, and OAuth2, as well as custom authorization. Additionally, it supports access control via IP address allowlists and blocklists, safeguarding API security.

Canary Release and Traffic Governance

Cloud Native Gateway provides open-source enhanced traffic governance capabilities, including rate limiting, canary release, circuit breaking, and traffic mirroring. It supports integration with Polaris to achieve end-to-end canary release. This helps enterprises better implement scenarios such as canary release and multi-environment management, ensuring smooth business deployment.

Unified Governance and Intelligent Scheduling for Multi-Model Systems

AI Gateway serves as a unified ingress, enabling visual access and management for multiple models. Through intelligent routing policies, it automatically selects the appropriate model based on factors such as request content, model performance, and cost. Combined with rate limiting and circuit breaking mechanisms, it ensures service stability. This helps enterprises address challenges in multi-model usage scenarios, such as complex model management, resource allocation, and cost control, thereby optimizing resource allocation and cost management.

AI Transformation for Legacy Business Systems

AI Gateway uses a protocol conversion engine to automatically wrap the standard APIs provided by legacy business systems into standardized tools (MCP Tools) that can be invoked by AI applications. This enables the AI-enabling of business capabilities and significantly reduces code modification efforts. Developers can quickly build intelligent applications without needing to focus on underlying integration details, allowing the value of legacy systems to be further unlocked in the AI era.

