

Tencent Cloud Elastic Microservice

Product Introduction

Product Documentation



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Overview

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What Is TEM?

Tencent Cloud Elastic Microservice (TEM) is a serverless PaaS platform designed for microservice applications. It perfectly combines serverless resources and the microservice architecture to provide a complete set of out-of-the-box microservice solutions.

TEM embraces the concept of open source, makes it possible to cloudify Spring Cloud native applications with zero modifications required. It offers a wide range of capabilities such as application hosting, service registration and discovery, microservice governance, and multidimensional monitoring. It also well supports ZooKeeper and Eureka registries.

Moreover, TEM allows you to create and manage pay-as-you-go cloud resources on demand that can be automatically scaled in seconds, which significantly reduces your OPS resource costs and enables you to fully focus on your core businesses for greater successes.

Features

TEM provides management features in the following four aspects:

- **Application management:** lifecycle management, multiple release policies, and basic auto scaling
- **Microservice management:** service registration and discovery, load balancing, and traffic throttling
- **OPS and monitoring:** basic monitoring and logging
- **Application migration:** non-intrusive migration

Strengths

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TEM enables you to quickly deploy microservice applications at low costs without having to modify your code and thus enjoy various capabilities such as serverless resource management, fast auto scaling, and OPS-free operations. In this way, you only need to focus on business logic without caring about the underlying resources.

Easy Integration

- TEM supports microservice development and joint testing in the Java language and Spring Cloud framework.
- It embraces open-source Spring Cloud applications to enable non-intrusive integration with zero code modifications and SDKs required, which decouples business code and vendor platforms. In this way, you can quickly build a microservice platform without having to build components on your own.
- It supports joint testing between local microservices and between local microservices and cloud microservices.

Fast Deployment

TEM manages the entire lifecycle of applications and offers the serverless deployment method, which eliminates the cumbersome workloads of daily capacity estimation, server purchase, and cluster management. In addition, it can automatically scale resources in seconds, which reduces your time costs.

Multi-Scenario Governance

- TEM supports multi-scenario microservice governance.
- It has multi-environment parallel high-availability registries.
- It supports Spring Cloud application registration, discovery, and call.
- It enables you to configure various service management scenarios visually, thus simplifying release management.

OPS and Monitoring

- TEM allows you to customize the log collection path.
- It provides a monitoring and alarming mechanism based on basic metrics such as CPU and memory.

Scenarios

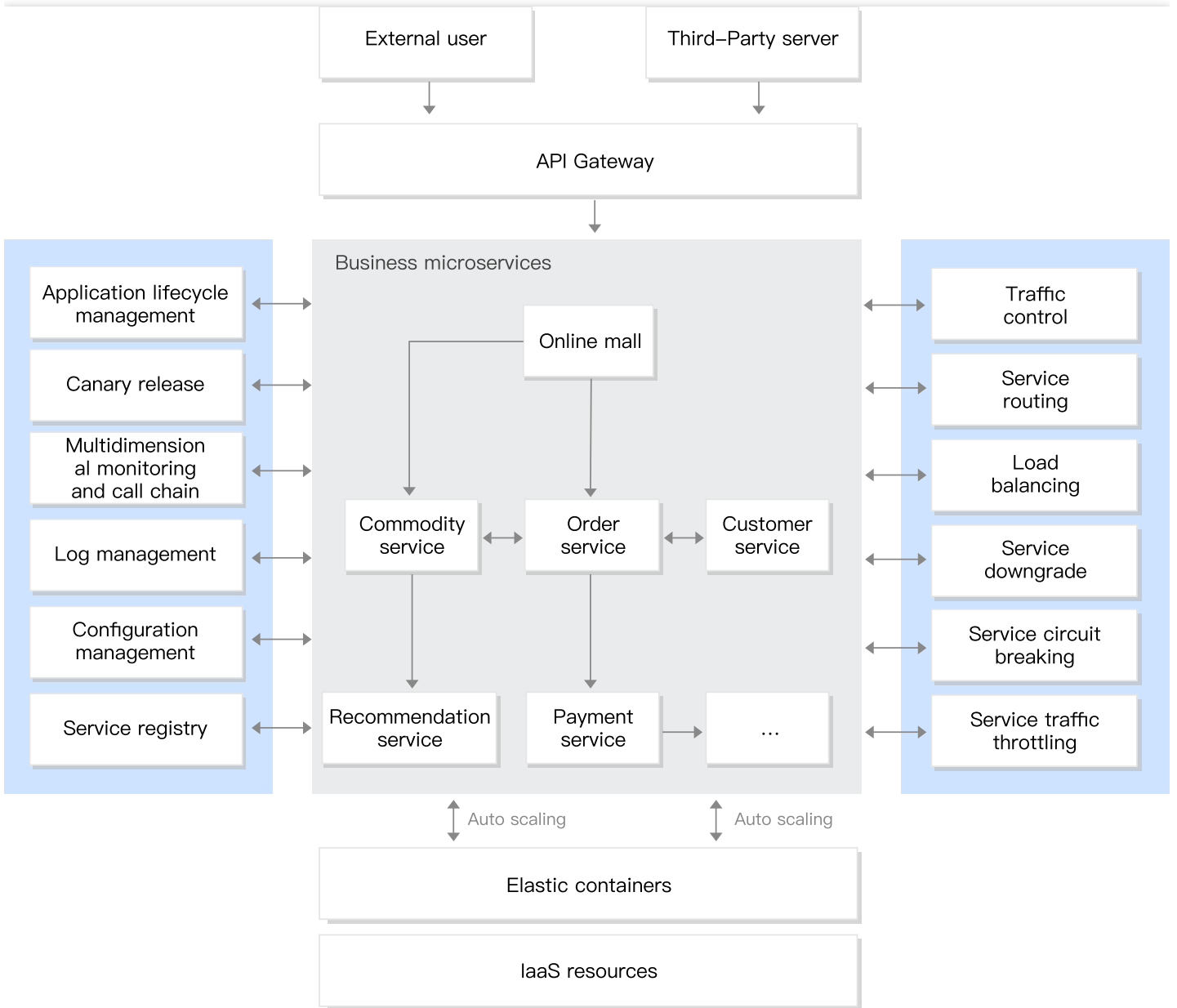
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TEM is suitable for the following use cases:

Microservice Application

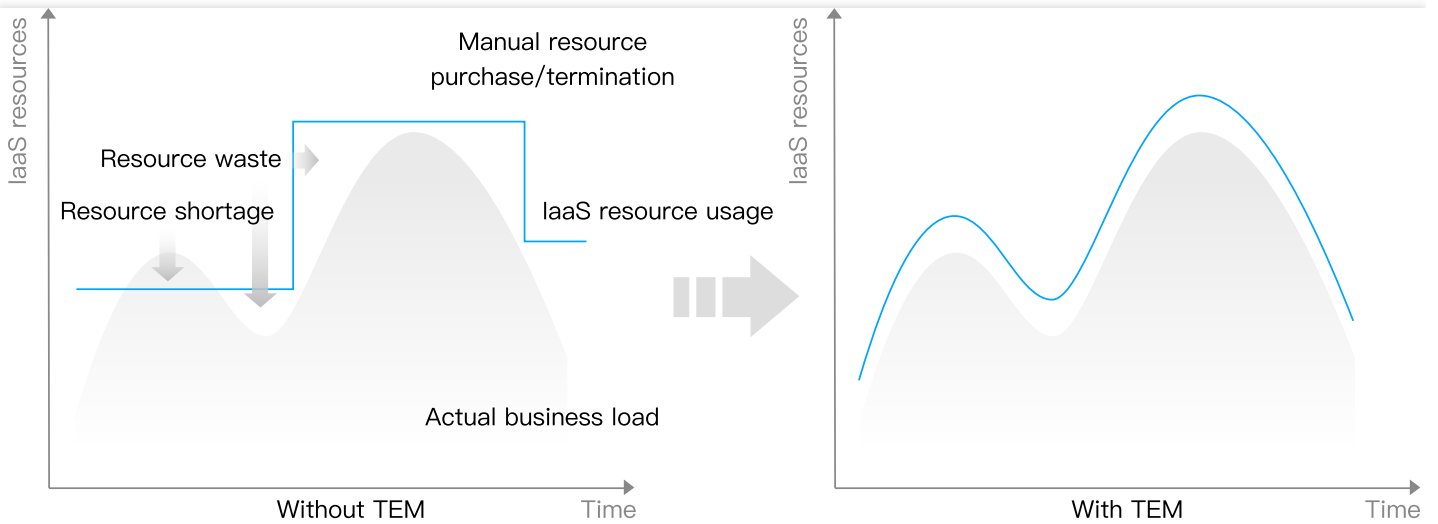
As the team size and business scale grow, backend services gradually evolve from the monolithic architecture to the microservice architecture. Although the microservice architecture empowers agile development, flexible deployment, and high scalability, it increases the complexity of service governance and OPS and raises their technical thresholds.

In order to address the aforementioned problems introduced by the microservice architecture, TEM offers out-of-the-box microservice solutions through rich features and capabilities such as application hosting, service registration and discovery, microservice governance, call chain, and multidimensional monitoring. With TEM, you can quickly build microservice applications, improve the OPS efficiency, reduce the complexity and technical threshold of service governance, and focus more on your core businesses for greater successes.



Auto Scaling

Ecommerce, video, gaming, securities, and online education applications are prone to traffic surges, access response timeouts, and increased error rates in scenarios where the business traffic volume changes rapidly on a regular basis. TEM can automatically scale resources within seconds to help you tackle traffic peaks with ease.



Continuous Integration and Delivery

TEM assists with the continuous integration and delivery as well as fast iteration of microservice applications. From code development to application delivery, its IDEA plugins, multiple deployment methods, and various release policies (e.g., canary release) help you quickly verify the values of your businesses.

