Message Queue CKafka

Purchase Guide

Product Documentation

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Purchase Guide
Product Specifications

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CKafka instances are divided into Standard Edition and Pro Edition according to their specifications. The differences between the two editions are as follows:

Items	Pro Edition	Standard Edition
Version	• Compatible with open-source versions 0.10, 1.1, 2.4, and 2.8. • You can select one of the versions upon purchase.	• Compatible with open-source versions 0.10 and 1.1, with v1.1 installed by default. • Customized versions are not supported.
Instance type	Dedicated instance	Shared physical node resource
Stability SLA	99.995%	99.95%
Bandwidth specification range	Up to 20,000 MB/s. For more information, see Billing Overview.	Up to 150 MB/s. For more information, see Billing Overview.
Public network bandwidth	The public network bandwidth can be increased for a fee. For the specific prices, see Billing Overview.	3 Mbps public network bandwidth is provided for free by default.
Topic/Partition specification	• The topic/partition capacity is much larger than that on the Standard Edition under the same bandwidth. • Additional partition packages can be purchased within a certain range to increase the upper limit.	Each model has a fixed upper limit.
Scalability	Its scalability is high, and the upper limits of bandwidth, topics/partitions, and disks can be increased separately.	Its scalability is low, and its disk can be expanded separately.
Broker repair and upgrade time	Quick upgrade	Subject to shared cluster resources, it takes a long time to upgrade.
High availability	Custom multi-AZ deployment in the same region is supported to improve the disaster recovery capabilities.	Multi-AZ deployment in the same region is not supported.

Items	Pro Edition	Standard Edition
Advanced features	• Timed rebalance. You can customize the rebalance execution time during upgrade to avoid business peak hours. For more information, see Upgrading Instance. • Advanced monitoring. This includes network stability analysis and request delay analysis. For more information, see Querying Advanced Monitoring (Pro Edition). • The message retention policy can be adjusted dynamically based on disk utilization. For more information, see Automatic Disk Capacity Expansion. • The disk capacity can be adjusted dynamically based on disk utilization. For more information, see Automatic Disk Capacity Expansion. • Advanced Ops. This includes displaying top 10 topics by disk/traffic usage. For more information, see Viewing Advanced Ops Features (Pro Edition). • Topic traffic throttling rules can be configured. For more information, see Setting Topic Traffic Throttling Rule.	The message retention policy can be adjusted dynamically based on disk utilization. For more information, see Automatic Disk Capacity Expansion.
Technical support	Parameter optimization consulting services are supported, helping you customize parameter configurations for certain special business scenarios. You can submit a ticket for application.	Basic troubleshooting and problem fixing

Billing Overview

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> Note：
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> Existing pay-as-you-go instances will be charged from 0:00:00 July 15, 2021.

This document describes the product specifications, billable items, billing modes, and instance prices of CKafka.

Product Specifications

CKafka instances are divided into Standard Edition and Pro Edition according to their specifications. The comparison of the two editions are as follows:

Item	Pro Edition	Standard Edition
Version	Compatible with open-source versions 0.10, 1.1, and 2.4, which can be freely selected upon purchase	Compatible with open-source versions 0.10 and 1.1. v1.1 is installed by default. Customized versions are not supported
Instance type	Dedicated instance (each instance has a separate cluster of independent virtual nodes)	Shared physical node resources
Stability SLA	99.995%	99.95%
Instance specification	There are no fixed models, and the specifications can be customized according to the actual business scenario	There are 8 fixed instance types, including small, standard, and advanced
Topic/Partition specification	The topic/partition capacity is much larger than that on the Standard Edition under the same bandwidth. Additional partition packages can be purchased within a certain range to increase the upper limit	Each model has a fixed upper limit

Item	Pro Edition	Standard Edition
Scalability	Its scalability is high, and the upper limits of bandwidth, topics/partitions, and disks can be increased separately	Its scalability is low, and its disk can be expanded separately
Performance tuning	The performance can be customized according to the business scenario with fewer parameter restrictions	The numbers of topics and partitions are limited according to the different instance specifications
Automatic disk cleanup	Available. Expired data is cleared regularly	Unavailable. You need to submit a ticket for assistance when the disk is full
Broker repair and upgrade	Targeted upgrades are available, and the upgrade process is fast and almost imperceptible with high stability	Subject to shared cluster resources, upgrades for problem fixes take a long time
High availability	Custom multi-AZ deployment in the same region is supported to improve the disaster recovery capabilities	Multi-AZ deployment in the same region is not supported. It relies on backend migration and requires you to submit a ticket to apply, which generally takes 10 business days for processing
Advanced features	Timed rebalance (you can customize the rebalance execution time during upgrade to avoid business peak hours. For more information, please see Upgrading Instances). Advanced monitoring (this includes network stability analysis and request delay analysis. For more information, please see Querying Advanced Monitoring Information). Dynamic message retention policy adjustments based on disk utilization (for more information, please see Adding Dynamic Message Retention Policies)	None
Technical support	Parameter optimization consulting services are supported, helping you customize parameter configurations for certain special business scenarios. You can submit a ticket to apply for parameter optimization consulting services	Basic troubleshooting and problem fixing

> Note：
>
> The automatic disk cleanup feature is enabled for the **Pro Edition** by default. When the instance disk is full, the oldest data will be automatically cleared to ensure that the instance is available.

Billable Items

The billable items are as follows:

Item	Pro Edition	Standard Edition	Description
Peak bandwidth	✔	✔	Throughput refers to the outbound and inbound bandwidth peak. For example, a throughput of 40 MB indicates that the outbound and inbound peak bandwidth is 40 MB. The replicas of an instance share the throughput equally. For example, for a throughput of 40 MB and three replicas, you should purchase a bandwidth with a throughput of 120 MB/s.
Disk capacity	✔	✔	• The disk capacity varies by instance specification. • CKafka Standard Edition supports SSD cloud disks. CKafka Pro Edition supports SSD and premium cloud disks.
Partition	✔	-	• The number of partitions varies by instance specification, and additional partitions can be purchased separately for the Pro Edition. • Topics are free of charge for the Pro Edition, and the maximum number of available topics is equal to the number of partitions/the number of replicas. • The number of partitions cannot be reduced. • The instance-level partition limit applies to the number of replicas. For example, if an instance has one topic with two replicas and each with four partitions, and two topics with three replicas and each with three partitions, then the total number of partitions in this instance will be (1 * 2 * 4) + (2 * 3 * 3) = 26.

Billing Modes

Mode	Pro Edition	Standard Edition	Description

Mode	Pro Edition	Standard Edition	Description
Monthly subscription	✔	-	The total fees of a purchased Pro Edition instance are (basic package price + partition package price * number of additional partitions / 100 + disk capacity price * disk capacity / 100) * number of months. For detailed prices, please see Pro Edition pricing.
Pay-as-you-go	✔	✔	• The total fees of a purchased Pro Edition instance are (basic package price + partition package price * number of additional partitions / 100 + disk capacity price * disk capacity / 100) * number of hours. For detailed prices, please see Pro Edition pricing. • The total fees of a purchased Standard Edition instance are (basic package price + disk capacity price * disk capacity / 100) * number of hours. For detailed prices, please see Standard Edition pricing.

Note：

In the pay-as-you-go billing mode, you can select configuration items such as traffic specification and disk capacity as needed, which are billed by the hour (a usage duration that is shorter than one hour will be calculated as one hour). Bills are generated once a month. After you purchase a pay-as-you-go instance, the system will allocate corresponding instance resources. Therefore, in this billing mode, the instance is billed by the instance price multiplied by the service time, regardless of whether the instance is used after purchase.

Currently, capacity reduction in advance is not supported. You can submit a ticket to apply for capacity reduction. The backend will perform the capacity reduction operation for you before your next billing cycle starts. After, fees will be charged based on the reduced specifications.

Monthly Subscription

Pro Edition pricing

CKafka Pro Edition provides more flexible specification selection modes and more stable upgrade capabilities. You can purchase and scale instances according to your specific business needs.

Basic package

After you select the peak bandwidth value for an instance, it will be automatically matched with a corresponding basic package. The basic package in each tier includes a certain number of partitions, and topics are not billed separately. The number of available topics in the package is equal to the number of partitions/the number of replicas.

The tiers of peak bandwidth (x) are as follows:

Peak Bandwidth Tier (MB/s)	Number of Partitions in the Package
$40 \leq x < 120$	2,000
$120 \leq x < 320$	2,000
$320 \leq x < 920$	2,000
$920 \leq x < 1,200$	2,800
$x = 1,200$	3,200
$x = 1,600$	8,000
$x = 2,000$	10,000
$x = 2,400$	12,000
$x = 2,800$	14,000
$x = 3,200$	16,000

Note：

- The fees for the partitions in a package are already included in the package fees, so they will not incur additional fees.
- If you need CKafka instances with higher specifications, please contact your Tencent Cloud rep or submit a ticket for assistance.

The price of the basic peak bandwidth package varies by tier, as detailed below:

Tier	Peak Bandwidth Range (MB/s)	Price (Monthly Subscription)
Basic I	40–100	Starting at 360 USD/month and 53 USD/month for each extra 20 MB/s
Basic II	120–300	Starting at 630 USD/month and 51 USD/month for each extra 20 MB/s
Basic III	320–600	Starting at 1,200 USD/month and 49 USD/month for each extra 20 MB/s

Tier	Peak Bandwidth Range (MB/s)	Price (Monthly Subscription)
Basic IV	620–900	Starting at 2,340 USD/month and 43 USD/month for each extra 20 MB/s
Basic V	920–1,200	Starting at 3,090 USD/month and 34 USD/month for each extra 20 MB/s
Premium	1,600–10,000	Starting at 4,150 USD/month and 856 USD/month for each extra 400 MB/s

For example, a 180 MB/s instance falls into the Basic II tier with 60 MB/s added to 120 MB/s, so the price of the package is 630 + 51 * (60 / 20) = 783 (USD/month)

Partition package pricing

After you select the peak bandwidth value, if the number of partitions in the corresponding basic package cannot meet your needs, you can purchase additional partition packages separately. The number of partitions can be increased in increments of 100, as priced below:

Tier	Number of Partitions	Partition Package Price (Monthly Subscription)
Any tier	100	35 USD/month

Disk expansion pricing

To purchase a CKafka Pro Edition instance, you need to purchase a disk of a certain minimum size. The disk capacity can be expanded in increments of 100 GB, as priced below:

Tier	Disk Type	Disk Capacity (GB)	Disk Price (Monthly Subscription)
Any tier	SSD cloud disk	100	16 USD/month
Any tier	Premium cloud disk	100	6 USD/month

Pay-as-You-Go

Standard Edition pricing

CKafka Standard Edition is available in 8 instance types such as small and standard based on the **peak throughput** and the **disk capacity**.

Instance pricing

Instance Type	Peak Throughput (MB/s)	Disk Capacity (GB)	Number of Instance-Level Topics	Number of Instance-Level Partitions	Price (USD/Hour)
Small	40	300	25	60	0.09
Standard	100	1,000	40	100	0.25
Advanced	150	2,500	50	150	0.57
Large	180	4,000	150	300	0.82
Xlarge L1	300	6,000	250	500	1.06
Xlarge L2	400	6,000	250	500	1.34
Xlarge L3	600	6,000	350	600	1.80
Xlarge L4	900	9,000	450	700	2.68

Disk expansion pricing

Disk Type	Disk Capacity (GB)	Price (USD/Hour)
Premium cloud disk	100	0.01

> Note：
>
> If you need CKafka instances with higher specifications, please contact your Tencent Cloud rep or submit a ticket for assistance.

Pro Edition pricing

CKafka Pro Edition provides more flexible specification selection modes and more stable upgrade capabilities. You can purchase and scale instances according to your specific business needs.

Basic package

After you select the peak bandwidth value for an instance, it will be automatically matched with a corresponding basic package. The basic package in each tier includes a certain number of partitions, and topics are not billed separately. The number of available topics in the package is equal to the number of partitions/the number of replicas.

The tiers of peak bandwidth (x) are as follows:

Peak Bandwidth Tier (MB/s)	Number of Partitions in the Package
40 ≤ x < 120	2,000
120 ≤ x < 320	2,000
320 ≤ x < 920	2,000
920 ≤ x < 1,200	2,800
x = 1,200	3,200
x = 1,600	8,000
x = 2,000	10,000
x = 2,400	12,000
x = 2,800	14,000
x = 3,200	16,000

Note：

- The fees for the partitions in a package are already included in the package fees, so they will not incur additional fees.
- If you need CKafka instances with higher specifications, please contact your Tencent Cloud rep or submit a ticket for assistance.

The price of the basic peak bandwidth package varies by tier, as detailed below:

Tier	Peak Bandwidth Range (MB/s)	Price (Pay-as-You-Go)
Basic I	40–100	Starting at 0.55 USD/hour and 0.09 USD/hour for each extra 20 MB/s
Basic II	120–300	Starting at 0.96 USD/hour and 0.08 USD/hour for each extra 20 MB/s
Basic III	320–600	Starting at 1.83 USD/hour and 0.07 USD/hour for each extra 20 MB/s

Tier	Peak Bandwidth Range (MB/s)	Price (Pay-as-You-Go)
Basic IV	620–900	Starting at 3.57 USD/hour and 0.06 USD/hour for each extra 20 MB/s
Basic V	920–1,200	Starting at 4.72 USD/hour and 0.05 USD/hour for each extra 20 MB/s
Premium	1,600–10,000	Starting at 6.34 USD/hour and 1.31 USD/hour for each extra 400 MB/s

For example, a 180 MB/s instance falls into the Basic II tier with 60 MB/s added to 120 MB/s, so the price of the package is 0.96 + 0.08 * (60 / 20) = 1.2 (USD/hour)

Partition package pricing

After you select the peak bandwidth value, if the number of partitions in the corresponding basic package cannot meet your needs, you can purchase additional partition packages separately. The number of partitions can be increased in increments of 100, as priced below:

Tier	Number of Partitions	Partition Package Price (Pay-as-You-Go)
Any tier	100	0.05 USD/hour

Disk expansion pricing

To purchase a CKafka Pro Edition instance, you need to purchase a disk of a certain minimum size. The disk capacity can be expanded in increments of 100 GB, as priced below:

Tier	Disk Type	Disk Capacity (GB)	Disk Price (Pay-as-You-Go)
Any tier	SSD cloud disk	100	0.03 USD/hour
Any tier	Premium cloud disk	100	0.01 USD/hour

Payment Overdue

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Expiration Alert

Seven days before your CKafka instance expires, the system automatically pushes an expiration alert message to you every other day. All alert messages are sent to the Tencent Cloud account creator and all collaborators via **email and SMS**.

Overdue Payment Alert

From the day when your CKafka instance expires, an alert message of isolation due to overdue payment is sent to you every other day. All alert messages are sent to the Tencent Cloud account creator and all collaborators via **email and SMS**.