# Alibaba Cloud

Message Queue for Apache Kafka Pricing

Document Version: 20211210

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# **Document conventions**

Style	Description	Example
<u> Danger</u>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger:  Resetting will result in the loss of user configuration data.
<u> </u>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	Notice:  If the weight is set to 0, the server no longer receives new requests.
? Note	A note indicates supplemental instructions, best practices, tips, and other content.	Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click <b>OK</b> .
Courier font	Courier font is used for commands	Run the cd /d C:/window command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	bae log listinstanceid  Instance_ID
[] or [a b]	This format is used for an optional value, where only one item can be selected.	ipconfig [-all -t]
{} or {a b}	This format is used for a required value, where only one item can be selected.	switch {active stand}

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# 1.Billing

This topic describes the instance editions, instance types, billable items, and billing methods of Message Queue for Apache Kafka. This topic also lists the regions where Message Queue for Apache Kafka are available.

Notice The connector feature of Message Queue for Apache Kafka is in public preview. This feature is independent of Message Queue for Apache Kafka instances. Therefore, you are not charged on the Message Queue for Apache Kafka side when you use a connector to synchronize data between Message Queue for Apache Kafka and another Alibaba Cloud service. Alibaba Cloud does not provide service level agreement (SLA) commitments for the connector feature in public preview. For information about the SLA commitments and billing of the services that are related to the connector feature, see the document ation of the services.

#### **Instance specifications**

The following table describes the specifications for each instance edition of Message Queue for Apache Kafka.

ltem	Standard Edition (High Write)	Professional Edition (High Write)	Professional Edition (High Read)	
Version	Only version 0.10.x is supported.	<ul> <li>Versions 0.10.x to 2.x are supported.</li> <li>Version 2.x is compatible with versions 0.11.x and 1.x.</li> <li>By default, version 0.10.x is deployed. For more information about how to upgrade the version, see Upgrade the instance version.</li> </ul>	<ul> <li>Versions 0.10.x to 2.x are supported.</li> <li>Version 2.x is compatible with versions 0.11.x and 1.x.</li> <li>By default, version 0.10.x is deployed. For more information about how to upgrade the version, see Upgrade the instance version.</li> </ul>	
Ratio of maximum read traffic to maximum write traffic	1:1	1:1	5:1	
Instance type	Virtual instance where specific resources are shared	Dedicated instance	Dedicated instance	
Message retention period	Up to seven days	Customizable	Customizable	
Disaster recovery	Single-zone deployment	Multi-zone deployment	Multi-zone deployment	
Performance optimization	Not supported	Customizable	Customizable	
Cross-region message router	Not supported	Not supported	Not supported	

ltem	Standard Edition (High	Professional Edition (High	Professional Edition (High
	Write)	Write)	Read)
Торіс	The number of topics that you can create is the same as the number of topics that you purchase.	The number of topics that you can create is twice the number of topics that you purchase.	The number of topics that you can create is twice the number of topics that you purchase.

#### Regions

The following table lists the regions where Message Queue for Apache Kafka are available.

Region group	Region
	China (Hangzhou)
	China (Shanghai)
	China (Qingdao)
	China (Beijing)
Region group 1	China (Zhangjiakou)
	China (Hohhot)
	China (Shenzhen)
	China (Heyuan)
	China (Chengdu)
	China (Hong Kong)
	Singapore (Singapore)
	Japan (Tokyo)
Region group 2	US (Virginia)
	US (Silicon Valley)
	Germany (Frankfurt)
	UK (London)
	Malaysia (Kuala Lumpur)
Region group 3	India (Mumbai)
	Indonesia (Jakarta)

#### Instance types

Message Queue for Apache Kafka provides the following instance types:

• VPC type: Instances of this type can be accessed only from a virtual private cloud (VPC).

• Internet and VPC type: Instances of this type can be accessed over the Internet or from a VPC.

#### Billable items

The following table describes the billable items for Message Queue for Apache Kafka.

Billable item	Description
Public traffic	Public traffic is divided into read traffic and write traffic. The maximum read traffic and maximum write traffic provided by Message Queue for Apache Kafka are the same. Select a bandwidth based on your peak read or write traffic, whichever is higher. This billable item applies only to instances of the Internet and VPC type.
Traffic specification	<ul> <li>The traffic specification refers to all the traffic consumed by your elastic network interfaces (ENIs). The traffic includes both the business traffic and in-cluster replication traffic. Business traffic is the actual messaging traffic of your business. In-cluster replication traffic includes the traffic generated when the data in your Message Queue for Apache Kafka cluster is backed up multiple times. By default, the cluster has a total of three replicas after backup.</li> <li>Business traffic is divided into read traffic and write traffic. The ratio of maximum read traffic to maximum write traffic is 1:1 for the Professional Edition (High Write) and is 5:1 for the Professional Edition (High Read). Select an ENI traffic specification based on your peak read or write traffic, whichever is higher. To ensure business stability, we recommend that you purchase a margin for buffering. The margin is about 30% of your peak read or write traffic, whichever is higher.</li> </ul>
Disk capacity	<ul> <li>In consideration of performance and storage space, the minimum disk capacity varies based on the traffic specification.</li> <li>Message Queue for Apache Kafka supports ultra disks and solid-state drives (SSDs). We recommend that you use SSDs.</li> <li>The price of a disk varies with the disk type.</li> <li>Exercise caution when you select a disk type, because the disk type cannot be changed after the order is placed.</li> <li>By default, data is stored in three replicas.</li> <li>For a Standard Edition instance, if you purchase a disk of 300 GB in size, the actual storage space that you can use to store your business data is 100 GB. The remaining 200 GB is used to store backups.</li> <li>For a Professional Edition instance, if you purchase a disk of 300 GB in size, the actual storage space that you can use to store your business data is 300 GB. 600 GB of storage space is free for you to store backups.</li> <li>Notice Free storage space applies only to topics whose storage engines are cloud storage. For more information about cloud storage, see Storage engine comparison.</li> </ul>

Billable item	Description
Topic specification	<ul> <li>The maximum number of topics or partitions allowed varies with your traffic specification.</li> <li>In addition to the default number of partitions, 16 partitions are added each time you purchase a topic. Assume that you have purchased an instance that has 50 topics, a maximum traffic rate of 20 MB/s, and 400 default partitions. After you purchase another 10 topics for this instance, 160 partitions are added to the instance. The total number of partitions increases to 560.</li> <li>The number of topics that you can create on a Professional Edition instance is twice the number of topics that you purchase. For example, if you purchase a Professional Edition instance that has 50 topics, the number of topics that you can create on the instance is 100.</li> </ul>

#### ? Note

- You are charged for the items that are described in the previous tables.
- You can adjust the value of the Message Retention Period parameter to save disk space. This parameter specifies the maximum period for which messages can be retained when disk space is sufficient. If disk usage reaches 85%, the disk capacity is insufficient. In this case, the system deletes messages from the earliest stored ones to ensure service availability. By default, messages are retained for a maximum of 72 hours. You can also select a period between 24 hours and 168 hours. For more information, see When are old messages deleted in Message Queue for Apache Kafka?.
- The number of API calls is not a billable item.

#### Billing methods

Message Queue for Apache Kafka supports only the subscription billing method.

Billing formulas

Billing formulas are associated with instance types.

- If you have purchased an instance of the Internet and VPC type, select the public traffic, traffic specification, disk capacity, and number of additional topics as required. The following formula is used to calculate the related fees:
  - Total fees = (Unit price of public traffic + Unit price of traffic specification + Unit price of disk capacity  $\times$  Disk capacity purchased/100 + Price of one topic  $\times$  Number of additional topics)  $\times$  Number of months
- If you have purchased an instance of the VPC type, select the traffic specification, disk capacity, and number of additional topics as required. The following formula is used to calculate the related fees:
  - Total fees = (Unit price of traffic specification + Unit price of disk capacity × Disk capacity purchased/100 + Price of one topic × Number of additional topics) × Number of months

Billing rules

Billing rules include the rules for the public traffic, traffic specifications, disk capacity, and additional topics:

- Billing rules for public traffic
  - For more information, see Subscription.
- Billing rules for traffic specifications

The billing rules for traffic specifications vary with your instance edition.

#### Billing rules for traffic specifications of Standard Edition (High Write) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics	Default number of partitions	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.h w.2xlarge	3×20	3×20	50	400	250	370	340
alikafka.h w.3xlarge	3×30	3×30	50	500	360	530	480
alikafka.h w.6xlarge	3×60	3×60	80	600	520	760	700
alikafka.h w.9xlarge	3×90	3×90	100	800	660	960	880
alikafka.h w.12xlarg e	3×120	3×120	150	900	800	1160	1070

#### Billing rules for traffic specifications of Professional Edition (High Write) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics	Default number of partitions	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.h w.2xlarge	3×20	3×20	50	1100	600	870	800
alikafka.h w.3xlarge	3×30	3×30	50	1200	780	1040	1040
alikafka.h w.6xlarge	3×60	3×60	80	1400	1130	1510	1510
alikafka.h w.9xlarge	3×90	3×90	100	1600	1440	1920	1920
alikafka.h w.12xlarg e	3×120	3×120	150	1800	1750	2330	2330
alikafka.h w.16xlarg e	3×160	3×160	180	2000	2060	2740	2740
alikafka.h w.20xlarg e	3×200	3×200	200	2200	2980	3970	3970

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics	Default number of partitions	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.h w.25xlarg e	3×250	3×250	250	2500	3430	4570	4570
alikafka.h w.30xlarg e	3×300	3×300	300	3000	3880	5170	5170
alikafka.h w.60xlarg e	3×600	3×600	450	4500	5280	7030	7030
alikafka.h w.80xlarg e	3×800	3×800	500	5000	6220	8280	8280
alikafka.h w.100xlar ge	3×1000	3×1000	600	6000	7270	9670	9670
alikafka.h w.120xlar ge	3×1200	3×1200	700	7000	8100	10780	10780
alikafka.h w.150xlar ge	3×1500	3×1500	800	8000	9500	12640	12640
alikafka.h w.180xlar ge	3×1800	3×1800	900	9000	10910	14520	14520
alikafka.h w.200xlar ge	3×2000	3×2000	1000	10000	12070	16060	16060

#### Billing rules for traffic specifications of Professional Edition (High Read) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics	Default number of partitions	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.hr .2xlarge	50+2×10	10+2×10	50	1100	600	870	800
alikafka.hr .3xlarge	75+2×15	15+2×15	50	1200	780	1040	1040

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics	Default number of partitions	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.hr .6xlarge	150+2×30	30+2×30	80	1400	1130	1510	1510
alikafka.hr .9xlarge	180+2×45	45+2×45	100	1600	1440	1920	1920
alikafka.hr .12xlarge	240+2×60	60+2×60	150	1800	1750	2330	2330

#### • Billing rules for disk capacity

Disk type	Disk capacity (GB)	Unit price in region group 1 (USD/month)	Unit price in region group 2 (USD/month)	Unit price in region group 3 (USD/month)
Ultra disk	100	6	8	8
SSD	100	16	23	21

**<sup>?</sup> Note** If the default disk capacity does not meet your requirements, you must purchase additional disk capacity by adjusting the value of Disk Capacity on the buy page to a larger value.

#### • Billing rules for additional topics

Billable item	Number of topics	Unit price in region group 1 (USD/month)	Unit price in region group 2 (USD/month)	Unit price in region group 3 (USD/month)
Торіс	1	7	11	10

**<sup>?</sup> Note** If the default number of topics does not meet your requirements, you must purchase additional topics by adjusting the value of Supported Topics on the buy page to a larger value.

# 2. Subscription

## 2.1. Billing rules

You can use resources that are billed based on the subscription billing method only after you pay for them. This billing method applies to scenarios where you run stable and long-term business. To use the subscription billing method, you need to estimate the amount of resources that you require based on your business scale. Supported subscription periods include a single month, multiple months, and multiple years. After you place an order and complete the payment, the system allocates resources to your account. If you do not renew a resource after it expires, the resource is reclaimed by the system.

#### Billing formulas

In subscription mode, you need to pay for the billable items, such as the traffic specification and disk capacity, that you specify when you create an instance. Billable items and their unit prices vary with the instance type. For more information about billable items, see Billing.

• Internet - and VPC-connected instances: Instances of this type can be accessed over the Internet or from a virtual private cloud (VPC).

Total fees = (Unit price of Internet traffic + Unit price of traffic specification + Unit price of disk capacity  $\times$  Disk capacity/100 + Unit price of topics  $\times$  Number of additional topics)  $\times$  Number of months

• VPC-connected instances: Instances of this type can be accessed only from a VPC.

Total fees = (Unit price of traffic specification + Unit price of disk capacity  $\times$  Disk capacity/100 + Unit price of topics  $\times$  Number of additional topics)  $\times$  Number of months

#### Detailed billing rules

Billing rules for Internet traffic
 For more information, see the Subscription topic of Elastic IP Address (EIP).

• Billing rules for traffic specifications

The billing rules for traffic specifications vary with the instance edition. Standard Edition (High Write), Professional Edition (High Read) support different traffic specifications. The traffic specification specified for an instance determines the peak traffic for cluster computing and the maximum number of topics allowed. The higher the peak read/write traffic is, the more topics are involved, and the higher the fees are. In addition, the unit price of traffic specification varies with the region group. For information about the specifications of each instance edition, see Instance editions. The following table describes the regions supported by Message Queue for Apache Kafka in different groups.

□ Supported regions

Region group	Region
	China (Hangzhou)
	China (Shanghai)
	China (Qingdao)
	China (Beijing)

Reging graup	Region
	China (Zhangjiakou)
	China (Hohhot)
	China (Shenzhen)
	China (Heyuan)
	China (Chengdu)
	China (Hong Kong)
	Singapore (Singapore)
	Japan (Tokyo)
Region group 2	US (Virginia)
	US (Silicon Valley)
	Germany (Frankfurt)
	UK (London)
	Malaysia (Kuala Lumpur)
Region group 3	India (Mumbai)
	Indonesia (Jakarta)

- For information about the billing rules for traffic specifications of Standard Edition (High Write) instances, see Billing rules for traffic specifications of Standard Edition (High Write) instances.
- For information about the billing rules for traffic specifications of Professional Edition (High Write) instances, see Billing rules for traffic specifications of Professional Edition (High Write) instances.
- For information about the billing rules for traffic specifications of Professional Edition (High Read) instances, see Billing rules for traffic specifications of Professional Edition (High Read) instances
  - Notice The following limits are imposed on the alikafka.hw.test traffic specification of Standard Edition (High Write) instances:
    - Alibaba Cloud does not provide a service level agreement (SLA) for a Message Queue for Apache Kafka instance that uses this traffic specification. If you want to deploy your business online, we recommend that you upgrade the instance or purchase another instance that uses a higher traffic specification.
    - This traffic specification is available only for users that have not purchased a Message Queue for Apache Kafka instance before. In addition, you can purchase only one instance that uses this traffic specification.

Billing rules for traffic specifications of Standard Edition (High Write) instances

Traffic specificati on	Maximum read traffic of ENIs (Mbit/s)	Maximum write traffic of ENIs (Mbit/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.h w.2xlarge	3 × 20	3 × 20	50	400	250	370	340
alikafka.h w.3xlarge	3 × 30	3 × 30	50	500	360	530	480
alikafka.h w.6xlarge	3 × 60	3 × 60	80	600	520	760	700
alikafka.h w.9xlarge	3 × 90	3 × 90	100	800	660	960	880
alikafka.h w.12xlarg e	3 × 120	3 × 120	150	900	800	1,160	1,070

#### $Billing\ rules\ for\ traffic\ specifications\ of\ Professional\ Edition\ (High\ Write)\ instances$

Traffic specificati on	Maximum read traffic of ENIs (Mbit/s)	Maximum write traffic of ENIs (Mbit/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.h w.2xlarge	3 × 20	3 × 20	50	1,100	600	870	800
alikafka.h w.3xlarge	3 × 30	3 × 30	50	1,200	780	1,040	1,040
alikafka.h w.6xlarge	3 × 60	3 × 60	80	1,400	1,130	1,510	1,510
alikafka.h w.9xlarge	3 × 90	3 × 90	100	1,600	1,440	1,920	1,920
alikafka.h w.12xlarg e	3 × 120	3 × 120	150	1,800	1,750	2,330	2,330
alikafka.h w.16xlarg e	3 × 160	3 × 160	180	2,000	2,060	2,740	2,740
alikafka.h w.20xlarg e	3 × 200	3 × 200	200	2,200	2,980	3,970	3,970
alikafka.h w.25xlarg e	3 × 250	3 × 250	250	2,500	3,430	4,570	4,570

Traffic specificati on	Maximum read traffic of ENIs (Mbit/s)	Maximum write traffic of ENIs (Mbit/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
------------------------------	---	--	---	--	---	---	---

alikafka.h w.30xlarg e	3 × 300	3 × 300	300	3,000	3,880	5,170	5,170
alikafka.h w.60xlarg e	3 × 600	3 × 600	450	4,500	5,280	7,030	7,030
alikafka.h w.80xlarg e	3 × 800	3 × 800	500	5,000	6,220	8,280	8,280
alikafka.h w.100xlar ge	3 × 1000	3 × 1000	600	6,000	7,270	9,670	9,670
alikafka.h w.120xlar ge	3 × 1200	3 × 1200	700	7,000	8,100	10,780	10,780
alikafka.h w.150xlar ge	3 × 1500	3 × 1500	800	8,000	9,500	12,640	12,640
alikafka.h w.180xlar ge	3 × 1800	3 × 1800	900	9,000	10,910	14,520	14,520
alikafka.h w.200xlar ge	3 × 2000	3 × 2000	1,000	10,000	12,070	16,060	16,060

#### Billing rules for traffic specifications of Professional Edition (High Read) instances

Traffic specificati on	Maximum read traffic of ENIs (Mbit/s)	Maximum write traffic of ENIs (Mbit/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.hr .2xlarge	50 + 2 × 10	10 + 2 × 10	50	1,100	600	870	800
alikafka.hr .3xlarge	75 + 2 × 15	15 + 2 × 15	50	1,200	780	1,040	1,040

Traffic specificati on	Maximum read traffic of ENIs (Mbit/s)	Maximum write traffic of ENIs (Mbit/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/mon th)	Unit price in region group 2 (USD/mon th)	Unit price in region group 3 (USD/mon th)
alikafka.hr .6xlarge	150 + 2 × 30	30 + 2 × 30	80	1,400	1,130	1,510	1,510
alikafka.hr .9xlarge	180 + 2 × 45	45 + 2 × 45	100	1,600	1,440	1,920	1,920
alikafka.hr .12xlarge	240 + 2 × 60	60 + 2 × 60	150	1,800	1,750	2,330	2,330

#### • Billing rules for disk capacity

The billing rules for disk capacity vary with the disk type and the unit price of disk capacity varies with the region group. If the default disk capacity does not meet your requirements, you must purchase additional disk capacity by adjusting the value of the Disk Capacity parameter on the buy page to a larger value.

Disk type	Disk capacity (GB)	Unit price in region group 1 (USD/month)	Unit price in region group 2 (USD/month)	Unit price in region group 3 (USD/month)
Ultra disk	100	6	8	8
Solid-state drive (SSD)	100	16	23	21

#### • Billing rules for additional topics

The default number of topics allowed for an instance indicates the minimum topic quota that you must purchase. If the default number of topics does not meet your requirements, you must purchase an additional topic quota by adjusting the value of the Topics parameter on the buy page to a larger value. 16 additional partitions are available for each added topic. If the specified number of topics reaches the upper limit imposed by the current traffic specification, we recommend that you select a higher traffic specification. Such a choice is cost-effective due to the automatic billing optimization between traffic specifications and topic quotas. The unit price of additional topic quotas varies with the region group.

Billable item	Number of topics	Unit price in region group 1 (USD/month)	Unit price in region group 2 (USD/month)	Unit price in region group 3 (USD/month)
Topic	1	7	11	10

## 2.2. Overdue payments

This topic describes the impact of overdue payments of Message Queue for Apache Kafka instances. We recommend that you renew an instance that is about to expire in advance to prevent service interruption.

#### Impact of overdue payments

• If the Message Queue for Apache Kafka instance that you purchased expires, the Message Queue for Apache Kafka instance is immediately disabled and you cannot use the instance until you renew it.

• If you do not renew the Message Queue for Apache Kafka instance within 168 hours after the instance expires, the instance is released and cannot be recovered. This means that you can no longer use the Message Queue for Apache Kafka instance.

We recommend that you complete overdue payments within 168 hours to prevent service interruption. For more information, see Instance renewal.

#### Notifications on imminent overdue payments and instance release

If an instance is about to expire or be released, the system sends you a notification. You can view such notifications on the Message Center page. For more information about when the system sends a notification, see When the system sends notifications. For more information about how to set the notification policy, see Set the notification policy for imminent overdue payments and instance release.

When the system sends notifications

Billing method	When the system sends a notification on an imminent overdue payment	When the instance is disabled	When the system sends a notification on imminent instance release	When the instance is released	
	24 hours before the instance expires	Immediately	144 hours before the instance is	Released 168 hours	
Subscription	72 hours before the instance expires	instance expires	released	after the instance expires	

#### 2.3. Instance renewal

If your instance is a subscription instance and auto-renewal is not enabled for the instance, you must renew the instance before it expires. Otherwise, the service is interrupted.

#### Prerequisites

- The instance that you want to renew has expired or is in the Running state.
- The billing method of the instance is subscription.

#### **Procedure**

- 1. Log on to the Message Queue for Apache Kafka console.
- 2. In the **Resource Distribution** section of the **Overview** page, select the region where your instance resides.
- 3. On the Instances page, click the name of the instance that you want to manage.
- 4. On the Instance Details page, click Renew in the upper-right corner of the Overview section.
- 5. In the renewal panel, set the subscription duration, read and select Message Queue for Apache Kafka (Subscription) Terms of Service, and then click Buy Now.
- 6. In the Unpaid Orders panel, confirm the order information and click Purchase. In the Configuration Information section of the Instance Details page, you can view the value of the Expiration Time parameter for the instance after renewal.

# 3.Pay-as-you-go3.1. Billing rules

If an instance is billed based on the pay-as-you-go billing method, it is billed based on the number of resources that are used. This billing method is usually used for testing or short-time scenarios in which the volume of the traffic during peak hours is uncertain. You can pay your bills after you use resources. Payments are settled on an hourly basis.

#### Billing formulas

Billable items and their unit prices vary with the instance type. For more information about billable items, see Billing.

• Internet - and VPC-connected instances: Instances of this type can be accessed over the Internet or from a virtual private cloud (VPC).

Total fees = (Unit price of Internet traffic + Unit price of traffic specification + Unit price of disk capacity  $\times$  Disk capacity/100 + Unit price of topics  $\times$  Number of additional topics)  $\times$  Number of hours

• VPC-connected instances: Instances of this type can be accessed only from a VPC.

Total fees = (Unit price of traffic specification + Unit price of disk capacity  $\times$  Disk capacity/100 + Unit price of topics  $\times$  Number of additional topics)  $\times$  Number of hours

#### Payment description

In pay-as-you-go mode, you need to pay for the billable items, such as the traffic specification and disk capacity, that you specify when you create and deploy an instance.

- Payments are settled on an hourly basis. The usage duration shorter than an hour is calculated as an hour.
- Fees are calculated every hour and a bill is generated every 24 hours. The fees from the previous natural day are deducted on the current natural day from your Alibaba Cloud account balance based on the bill.

After you purchase a pay-as-you-go Message Queue for Apache Kafka instance, the system will allocate instance resources for you. In pay-as-you-go mode, the instance is billed based on the unit price of the instance multiplied by the service time, regardless of whether the instance is in use. If you have any questions about the payment, you can view the billing details. For more information, see View billing and usage details.

#### Detailed billing rules

**Note** If the information about the regions and prices in the following table is different from that on the buy page in the console, the buy page shall prevail.

• Billing rules for Internet traffic

The billing of Elastic IP Address (EIP) is affected by different multi-ISP Border Gateway Protocol (BGP) bandwidths and the unit price varies with the region group.

Bandwidth unit prices for EIPs of BGP (Multi-ISP)

	Bandwidth unit price (USD per Mbit/s-day)							
Region	1 Mbit/s	2 Mbit/s	3 Mbit/s	4 Mbit/s	5 Mbit/s	6 Mbit/s and higher (n represents the bandwidth value)		
China (Hangzhou), China (Shanghai), China (Beijing), China (Zhangjiakou), China (Hohhot), China (Shenzhen), China (Heyuan), China (Chengdu), Malaysia (Kuala Lumpur), China (Hong Kong), Singapore (Singapore), Indonesia (Jakarta), US (Virginia), US (Silicon Valley), Germany (Frankfurt), and UK (London)	0.14	0.28	0.43	0.57	0.71	0.71 + (n - 5) × 0.5		
China (Qingdao)	0.11	0.21	0.32	0.43	0.53	0.53 + (n - 5) × 0.46		
Japan (Tokyo)	0.17	0.34	0.51	0.68	0.85	0.85 + (n - 5) × 0.57		

#### • Billing rules for traffic specifications

The billing rules for traffic specifications vary with your instance edition. Standard Edition (High Write), Professional Edition (High Read) instances support different traffic specifications, which provides different capacities to handle traffic and supports different numbers of topics. The higher the peak read/write traffic is, the more topics are involved, and the higher the fees are. In addition, the unit price of traffic specification varies with the region group. For information about the specifications of each instance edition, see Instance editions. The following table describes the regions supported by Message Queue for Apache Kafka in different groups.

#### □地域

地域类型	地域名称
	华东1(杭州)
	华东2(上海)
	华北1 (青岛)
	华北2 (北京)
	华北3(张家口)
地域组1	华北5(呼和浩特)
	华南1(深圳)

地域类型	地域名称
	华南2(河源)
	西南1(成都)
	中国香港
	新加坡 (新加坡)
	日本 (东京)
地域组2	美国(弗吉尼亚)
	美国 (硅谷)
	德国 (法兰克福)
	英国 (伦敦)
	马来西亚(吉隆坡)
地域组3	印度 (孟买)
	印度尼西亚 (雅加达)

#### ☐ Supported regions

Region group	Region
	China (Hangzhou)
	China (Shanghai)
	China (Qingdao)
	China (Beijing)
Region group 1	China (Zhangjiakou)
	China (Hohhot)
	China (Shenzhen)
	China (Heyuan)
	China (Chengdu)
	China (Hong Kong)
	Singapore (Singapore)
	Japan (Tokyo)
Pegion group 2	US (Virginia)

Region group	Region
	US (Silicon Valley)
	Germany (Frankfurt)
	UK (London)
Degian avaun 2	Malaysia (Kuala Lumpur)
Region group 3	Indonesia (Jakarta)

- For information about the billing rules for traffic specifications of Standard Edition (High Write) instances, see Billing rules for traffic specifications of Standard Edition (High Write) instances.
- For information about the billing rules for traffic specifications of Professional Edition (High Write) instances, see Billing rules for traffic specifications of Professional Edition (High Write) instances.
- For information about the billing rules for traffic specifications of Professional Edition (High Read) instances, see Billing rules for traffic specifications of Professional Edition (High Read) instances.

#### Billing rules for traffic specifications of Standard Edition (High Write) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour )	Unit price in region group 2 (USD/hour )	Unit price in region group 3 (USD/hour )
alikafka.h w.2xlarge	3 × 20	3 × 20	50	1100	0.335	0.470	0.420
alikafka.h w.3xlarge	3 × 30	3 × 30	50	1200	0.475	0.650	0.590
alikafka.h w.6xlarge	3 × 60	3 × 60	80	1400	0.655	0.880	0.790
alikafka.h w.9xlarge	3 × 90	3 × 90	100	1600	0.800	1.050	0.930
alikafka.h w.12xlarg e	3 × 120	3 × 120	150	1800	0.960	1.250	1.100

#### Billing rules for traffic specifications of Professional Edition (High Write) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour )	Unit price in region group 2 (USD/hour )	Unit price in region group 3 (USD/hour )
alikafka.h w.2xlarge	3 × 20	3 × 20	50	1100	0.80	1.17	1.06

Traffic specificati on	Maximum read traffic of ENIS	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour	Unit price in region group 2 (USD/hour	Unit price in region group 3 (USD/hour
alikafka.h w.3xlarge	(MB/s) 3 × 30	3 × 30	50	1200	0.99	1.45	1.31
alikafka.h w.6xlarge	3 × 60	3 × 60	80	1400	1.34	1.980	1.77
alikafka.h w.9xlarge	3 × 90	3 × 90	100	1600	1.59	2.37	2.11
alikafka.h w.12xlarg e	3 × 120	3 × 120	150	1800	1.88	2.82	2.50
alikafka.h w.16xlarg e	3 × 160	3 × 160	180	2000	2.09	3.16	2.78
alikafka.h w.20xlarg e	3 × 200	3 × 200	200	2200	3.25	4.87	4.32
alikafka.h w.25xlarg e	3 × 250	3 × 250	250	2500	3.67	5.51	4.88
alikafka.h w.30xlarg e	3 × 300	3 × 300	300	3000	4.00	6.03	5.31
alikafka.h w.60xlarg e	3 × 600	3 × 600	450	4500	4.25	6.62	5.64
alikafka.h w.80xlarg e	3 × 800	3 × 800	500	5000	4.41	7.00	5.85
alikafka.h w.100xlar ge	3 × 1000	3 × 1000	600	6000	4.56	7.39	6.04
alikafka.h w.120xlar ge	3 × 1200	3 × 1200	700	7000	4.69	7.71	6.21
alikafka.h w.150xlar ge	3 × 1500	3 × 1500	800	8000	4.94	8.30	6.54

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour )	Unit price in region group 2 (USD/hour )	Unit price in region group 3 (USD/hour )
alikafka.h w.180xlar ge	3 × 1800	3 × 1800	900	9000	5.16	8.84	6.83
alikafka.h w.200xlar ge	3 × 2000	3 × 2000	1000	10000	5.34	9.29	7.05

#### Billing rules for traffic specifications of Professional Edition (High Read) instances

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour )	Unit price in region group 2 (USD/hour )	Unit price in region group 3 (USD/hour )
alikafka.h w.2xlarge	50 + 2 × 10	10 + 2 × 10	50	1100	0.80	1.17	1.06
alikafka.h w.3xlarge	75 + 2 × 15	15 + 2 × 15	50	1200	0.99	1.45	1.31
alikafka.h w.6xlarge	150 + 2 × 30	30 + 2 × 30	80	1400	1.34	1.98	1.77
alikafka.h w.9xlarge	180 + 2 × 45	45 + 2 × 45	100	1600	1.59	2.37	2.11
alikafka.h w.12xlarg e	240 + 2 × 60	60 + 2 × 60	150	1800	1.88	2.82	2.50
alikafka.h w.16xlarg e	240 + 2 × 80	80 +2 × 80	180	2000	2.09	3.160	2.780
alikafka.h w.20xlarg e	300 + 2 × 100	100 + 2 × 100	200	2200	3.25	4.87	4.32
alikafka.h w.25xlarg e	375 + 2 × 125	125 + 2 × 125	250	2500	3.67	5.51	4.88
alikafka.h w.30xlarg e	450 +2 × 150	150 + 2 × 150	300	3000	4.00	6.03	5.31
alikafka.h w.60xlarg e	900 + 2 × 300	300 + 2 × 300	450	4500	4.25	6.62	5.64

Traffic specificati on	Maximum read traffic of ENIs (MB/s)	Maximum write traffic of ENIs (MB/s)	Default number of topics allowed	Default number of partitions allowed	Unit price in region group 1 (USD/hour )	Unit price in region group 2 (USD/hour )	Unit price in region group 3 (USD/hour )
alikafka.h w.80xlarg e	1200 + 2 × 400	400 + 2 × 400	500	5000	4.41	7.00	5.85
alikafka.h w.100xlar ge	1500 + 2 × 500	500 + 2 × 500	600	6000	4.56	7.39	6.04
alikafka.h w.120xlar ge	1800 + 2 × 600	600 + 2 × 600	700	7000	4.69	7.71	6.21
alikafka.h w.150xlar ge	2250 + 2 × 750	750 + 2 × 750	800	8000	4.94	8.30	6.54
alikafka.h w.180xlar ge	2700 + 2 × 900	900 + 2 × 900	900	9000	5.16	8.84	6.83
alikafka.h w.200xlar ge	3000 + 2 × 1000	1000 + 2 × 1000	1000	10000	5.34	9.29	7.05

#### • Billing rules for disk capacity

The billing rules for disk capacity vary with the disk type and the unit price of disk capacity varies with the region group. If the default disk capacity does not meet your requirements, you must purchase additional disk capacity by adjusting the value of the Disk Capacity parameter on the buy page to a larger value.

Disk type	Disk size (GB)	Unit price in region group 1 (USD/hour)	Unit price in region group 2 (USD/hour)	Unit price in region group 3 (USD/hour)
Ultra disk	100	0.01	0.02	0.02
SSD	100	0.03	0.04	0.04

#### ? Note

- For instances that store data in three replicas, the cost to purchase disks of Professional Edition instances is about 60% fewer than that of self-managed open source disks.
- Minimum disks are used to prevent issues like a rollback failure caused by the frequent deletion of messages. If you want to reduce the number of minimum disks based on your business requirements, submit a ticket.

#### • Billing rules for additional topics

If the default number of topics does not meet your requirements, you must purchase an additional topic quota by adjusting the value of the Topics parameter on the buy page to a larger value. 16 additional partitions are available for each added topic. If the specified number of topics reaches the upper limit imposed by the current traffic specification, we recommend that you select a higher traffic specification. Such a choice is cost-effective due to the automatic billing optimization between traffic specifications and topic quotas. The unit price of additional topic quotas varies with the region group.

Billable item	Number of topics	Unit price in region group 1 (USD/hour)	Unit price in region group 2 (USD/hour)	Unit price in region group 3 (USD/hour)
Topic	1	0.02	0.02	0.02

Note The default number of topics allowed for an instance indicates the minimum topic quota that you must purchase. If you set the number of topics to a number smaller than the minimum topic quota on the buy page, the instance is still allocated resources based on the minimum topic quota. In this case, the fees are not reduced.

## 3.2. Overdue payments

This topic describes the impact of overdue payments when a Message Queue for Apache Kafka instance is billed based on the pay-as-you-go billing method. We recommend that you add enough funds to the account to prevent service interruption.

#### Impact of overdue payments

- When your account balance is insufficient to pay for the bill and your Message Queue for Apache Kafka service has been in arrears for more than 96 hours, your instance is stopped and you cannot use the Message Queue for Apache Kafka service any longer.
- If the service is still in arrears 168 hours after the Message Queue for Apache Kafka instance is stopped, the instance is released and cannot be recovered. This means that you can no longer use the Message Queue for Apache Kafka instance.

We recommend that you complete overdue payments within 168 hours after the service is in arrears to prevent service interruption. For more information, see How to pay an overdue bill.

#### Notifications on imminent overdue payments and instance release

If an instance is about to be in arrears, the system sends you a notification. You can view such notifications in Message Center. For more information about when the system sends a notification, see When the system sends notifications. For more information about how to set the notification policy, see Set the notification policy for imminent overdue payments and instance release.

#### When the system sends notifications

Billing method	When the system sends a notification on an imminent overdue payment	When the instance is stopped	When the system sends a notification on imminent instance release	When the instance is released
	12 hours after overdue payments			

Pay-as-you-go Billing method	When the system sends a notification on an imminent overdue payment	96 hours after <b>សាធាជាមេច្</b> រា <b>វាការនេ</b> is stopped	Whendows รายเอก รายอย่ารยลnce is กลุะเลียงอย่างก on imminent instance release	Released 168 hours after the instance When the instance is released
	23 hours after overdue payments			

# 4.Change the billing method from pay-as-you-go to subscription

This topic describes how to change the billing method of an instance from pay-as-you-go to subscription in the Message Queue for Apache Kafka console. The change of the billing method only affects how you are charged for using the instance, but does not affect the status of the instance. You do not need to modify the code on the client.

#### **Prerequisites**

A Message Queue for Apache Kafka instance is purchased and in the **Running** state. For more information, see Connect Message Queue for Apache Kafka to a VPC.

#### **Precautions**

- When you change the billing method, the instance keeps running. Therefore, you do not suffer from temporary service unavailability caused by the restart of the instance.
- The change of the billing method does not change the ID or endpoint of the instance.

#### **Procedure**

- 1. Log on to the Message Queue for Apache Kafka console.
- 2. In the **Resource Distribution** section of the **Overview** page, select the region where your instance resides.
- 3. On the Instances page, click the name of the instance that you want to manage.
- 4. On the Instance Details page, click Change to Subscription in the upper-right corner of the Overview section.
- 5. On the **Switch to Subscription** page, set the **Duration** parameter, select Terms of Service, and then click **Buy Now**.
- 6. In the **Unpaid Orders** panel, confirm the order information and click **Purchase**.

#### Result

In the **Configuration Information** section of the **Instance Details** page, the value of the **Billing Method** parameter is **Subscription**.

# 5.Set the notification policy for imminent overdue payments and instance release

When your Alibaba Cloud account has an overdue payment or a Message Queue for Apache Kafka instance is about to expire, Alibaba Cloud sends a notification by SMS or email. By default, Alibaba Cloud sends the notification to the mobile number and email address that are bound to your Alibaba Cloud account. To send the notification to a RAM user, perform the following steps on the Message Center page by using your Alibaba Cloud account.

#### Set the notification policy

- 1. Log onto the Message Queue for Apache Kafka console.
- 2. Click the 🛕 icon in the upper-right corner to go to the Message Center page.
- 3. In the left-side navigation pane, click Common Settings.
- 4. In the Notification Type column of the Common Settings page, select Product Overdue Payment, Suspension, and Imminent Release Notifications and click Modify.
- 5. In the Modify Contact dialog box, select alert contacts as required and click Save.

# 6. View billing and usage details

If you have questions about the billing and usage details of Message Queue for Apache Kafka, you can view the information in the Billing Management console.

#### View billing details

- 1. Log on to the Message Queue for Apache Kafka console.
- 2. In the upper-right corner, choose Expenses > User Center.
- 3. In the left-side navigation pane, choose Bill > Bill.
  - On the **Overview** tab, you can view a column chart for the trend in cost, a pie chart for cost distribution by service, the total cost, and the cost of each service.
  - On the Bills tab, you can set the filter conditions and click Search to query specific bills as required.
  - On the **Details** tab, you can set the filter conditions and click **Search** to query specific billing details as required.

#### View orders

- 1. Log onto the Message Queue for Apache Kafka console.
- 2. In the upper-right corner, choose Expenses > Bills.
- 3. In the left-side navigation pane, choose **Order Management > Order**.
- 4. Select Message Queue for Apache Kafka from the **Product** drop-down list, specify a time range for the Time Period parameter, enter an order ID in the Order ID field, and then click **Search**. The details of the specified order appear.

# 7.Billing FAQ

## 7.1. Why am I charged for extra topics?

- After an on-premises open-source Apache Kafka cluster contains more than 1,000 partitions, cluster performance begins to drop sharply. In the case where one topic corresponds to 24 partitions, a performance bottleneck occurs when a cluster contains less than 50 topics.
- Message Queue for Apache Kafka has optimized it to support theoretically unlimited partitions in a single cluster. Therefore, you are charged for extra topics.

# 7.2. How am I billed if I use the connector feature?

The connector feature of Message Queue for Apache Kafka is in public review. This feature is independent of Message Queue for Apache Kafka instances. Therefore, you are not charged on the Message Queue for Apache Kafka side when you use a connector to synchronize data between Message Queue for Apache Kafka and other Alibaba Cloud services. Alibaba Cloud does not provide any Service Level Agreement (SLA) guarantees for the connector feature in public preview. For more information about SLA guarantees and billing of other related services, see descriptions of corresponding services.