Alibaba Cloud

Global Acceleration

Pricing

Alibaba Cloud

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Document conventions

Style	Description	Example
⚠ Danger	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.
🔔 Warning	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 **OK**.
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 list --instanceid` *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}`

Table of Contents

1.Subscription

Global Accelerator (GA) supports only the subscription billing method. The subscription billing method requires you to complete the payment of the subscription before you can use a service.

> ⑦ **Note**   First-time users can apply for a one-month free trial of GA with their Alibaba Cloud accounts from April 1, 2021 to April 1, 2022. The Alibaba Cloud accounts must have passed enterprise real-name verification. Submit the GA Free Trial Application to apply for the free trial. For more information about the free trial and supported instance types, see Time-limited one-month free trials.

Overview

The subscription billing method requires you to complete the payment of the subscription before you can use a service. The following section describes the billing of GA:

- Billable item

  GA fees = Instance fee + Specification fee + Bandwidth fee

  The instance fee and specification fee are charged for the GA instance. The bandwidth fee is charged for the basic bandwidth plan and cross-border acceleration bandwidth plan that is used to accelerate content delivery. If you want to use GA to accelerate content delivery, you must purchase a basic bandwidth plan. If you want to accelerate content delivery between the Chinese mainland and areas outside the Chinese mainland, you must purchase a cross-border acceleration bandwidth plan.

- Billing cycle

  The billing cycle (based on UTC+8:00) of a subscription GA instance, basic bandwidth plan, and cross-border acceleration bandwidth plan is the subscription duration that you specify when you purchase the resources. The billing cycle starts from the point in time when the subscription resources are activated or renewed and ends at 00:00:00 on the day after the expiration date. The points in time when the billing cycle starts and ends are accurate to the second.

Instance fee

Instance fee = Instance unit price (USD/month) × Duration

For more information about the unit price of a GA instance, visit the buy page.

Specification fee

Specification fee = Specification unit price (USD/month) × Duration

GA supports the following types of instance specifications: Small I, Small II, Small III, Medium I, Medium II, and Medium III. The acceleration performance can vary based on the instance specification.

Instance specification	Number of acceleration regions	Peak bandwidth	Maximum number of concurrent connections
Small I	1	20 Mbit/s	5,000
Small II	2	40 Mbit/s	10,000

Instance specification	Number of acceleration regions	Peak bandwidth	Maximum number of concurrent connections
Small III	3	60 Mbit/s	15,000
Medium I	5	100 Mbit/s	25,000
Medium II	8	160 Mbit/s	40,000
Medium III	10	200 Mbit/s	50,000

The unit price varies based on GA instance specifications.For more information, visit the buy page.

Bandwidth fee

Bandwidth fee = Basic bandwidth plan fee + Cross-border acceleration bandwidth plan fee. The cross-border acceleration bandwidth plan fee is not charged if no cross-border acceleration bandwidth plan is purchased.

- Basic bandwidth plan

  Basic bandwidth plan fee = Unit price of the basic bandwidth plan (USD/month) × Bandwidth limit (Mbit/s) × Duration

  If you want to use GA to accelerate content delivery, you must purchase a basic bandwidth plan. A basic bandwidth plan provides bandwidth for data transfer over the Internet and within internal networks of Alibaba Cloud. The basic bandwidth plan is not applicable to data transfer between the Chinese mainland and areas outside the Chinese mainland.

  Basic bandwidth plans support the following types of bandwidth: basic, enhanced, and premium. The following table shows that the acceleration type, acceleration backend service, and acceleration scope of a basic bandwidth plan can vary based on the bandwidth type.

Bandwidth type	Workload type	Accelerated object	Acceleration scope
Basic bandwidth	Applications that are deployed on Alibaba Cloud	- Elastic Compute Service (ECS) - Server Load Balancer (SLB) - Alibaba Cloud public IP address ⑦ **Note** If ECS instances and SLB instances run in classic networks, both types of instances are not supported.	By default, networking within mainland China is accelerated. You can also purchase a cross-border bandwidth plan. This allows you to optimize the acceleration of networking between mainland China and other areas.

Bandwidth type	Workload type	Accelerated object	Acceleration scope
Enhanced bandwidth	○ Applications that are deployed on Alibaba Cloud ○ Applications that are not deployed on Alibaba Cloud	○ ECS ○ SLB ○ Alibaba Cloud public IP address ○ Custom IP address ○ Custom domain name	By default, networking within mainland China is accelerated. You can also purchase a cross-border bandwidth plan. This allows you to optimize the acceleration of networking between mainland China and other areas.
Premium bandwidth	○ Applications that are deployed on Alibaba Cloud ○ Applications that are not deployed on Alibaba Cloud	○ ECS ○ SLB ○ Alibaba Cloud public IP address ○ Custom IP address ○ Custom domain name	By default, network connections are accelerated on a global scale. Network traffic transmitted from mainland China to areas outside China is accelerated in the China (Hong Kong) region. If you also purchase a cross-border bandwidth plan, the acceleration of network connections between mainland China and areas outside China are reinforced.

> ⑦ Note
> ○ You can specify ECS or SLB as the backend service type only if your account is added to the whitelist. To specify ECS or SLB as the backend service type, submit a ticket.
> ○ Only an ECS instance or SLB instance in a virtual private cloud (VPC) can be specified as an endpoint.
> ○ The IP addresses of endpoint groups associated with each GA instance must be globally unique and not conflict with those of other GA instances.

The price of each basic bandwidth plan varies based on the bandwidth type. For more information about the pricing of basic bandwidth plans, visit the buy page.

- Cross-border acceleration bandwidth plan

  Cross-border acceleration bandwidth plan fee = Unit price of the cross-border acceleration bandwidth plan (USD/month) × Bandwidth limit (Mbit/s) × Duration

  If you want to accelerate content delivery between the Chinese mainland and areas outside the Chinese mainland, you must purchase a cross-border acceleration bandwidth plan. You can use a basic bandwidth plan and a cross-border acceleration bandwidth plan at the same time. This accelerates content delivery across borders.

  You can specify only the Chinese mainland and Global as the interconnected areas when you purchase a cross-border acceleration bandwidth plan. For more information about the pricing of cross-border acceleration bandwidth plans, visit the buy page.

Billing examples

For example, you purchase a standard GA instance of the Small I specification and a basic bandwidth plan of the Basic type. The subscription durations of the GA instance and the basic bandwidth plan are one month. The following table describes the GA fees that are charged during the month.

> ⑦ **Note**   The prices in the following table are provided only for reference. For more information about the actual prices,visit the buy page.

Instance fee	Specification fee	Bandwidth fee	GA fee
USD 15	USD 150	USD 60	USD 225

2.Overdue payments

Global Accelerator (GA) only supports the subscription billing method. We recommend that you renew your instance at the earliest opportunity to avoid service issues when the instance expires.

Instance type	Service expiration	Renewal
GA instance	A subscription GA instance can be in one of the following states depending on the payment status of the instance: • Normal: After you purchase a GA instance, the instance remains in the Normal state until it expires. A GA instance in this state provides regular acceleration services. • FinancialLocked: After a GA instance expires, the instance will be locked for seven days. You cannot manage locked instances, but the configurations of locked instances are retained. If the instance is not renewed within seven days after expiration or the renewal fails, the instance is released. After the instance is released, the related configurations and data will be permanently deleted.	
Basic bandwidth plan	A subscription basic bandwidth plan can be in one of the following states depending on the payment status of the basic bandwidth plan: • Normal: After you purchase a basic bandwidth plan, the bandwidth plan remains in the Normal state until it expires. A basic bandwidth plan in this state provides regular acceleration services. • FinancialLocked: After a basic bandwidth plan expires, the bandwidth plan will be locked for seven days. You cannot manage the basic bandwidth plans that are locked, but the related configurations are retained. If the basic bandwidth plan is not renewed within seven days after expiration or the renewal fails, the plan is released. After the basic bandwidth plan is released, the related configurations and data will be permanently deleted.	You can renew the instance within the subscription period or within seven days after the subscription expires.

Instance type	Service expiration	Renewal
Cross-border bandwidth plan	A subscription cross-border bandwidth plan can be in one of the following states depending on the payment status of the cross-border bandwidth plan: • Normal: After you purchase a cross-border bandwidth plan, the bandwidth plan remains in the Normal state until it expires. A cross-border bandwidth plan in this state provides regular acceleration services. • FinancialLocked: After a cross-border bandwidth plan expires, the bandwidth plan will be locked for seven days. You cannot manage the cross-border bandwidth plans that are locked, but the related configurations are retained. If the cross-border bandwidth plan is not renewed within seven days after expiration or the renewal fails, the plan is released. After the cross-border bandwidth plan is released, the related configurations and data will be permanently deleted.	

3.Renewal

If you do not renew Global Accelerator (GA) instances, basic bandwidth plans, and cross-border acceleration bandwidth plans that use the subscription billing method before they expire, your service may be interrupted. We recommend that you renew your resources before the subscription expires.

Renew a GA instance

1. Log on to the Global Accelerator console.

2. On the **Instances** page, find the GA instance that you want to renew and click **Renew** in the **Actions** column.

3. On the **Renew** page, specify the renewal duration, select the Terms of Service check box, and then click **Buy Now** to complete the payment.

Renew a basic bandwidth plan

1. Log on to the Global Accelerator console.

2. On the **Instances** page, find the GA instance that you want to manage and click its ID.

3. On the instance details page, click the **Bandwidth Manage** tab.

4. In the **Basic Bandwidth Plan** section, find the basic bandwidth plan that you want to renew and click **Renew** in the **Actions** column.

5. On the **Renew** page, specify the renewal duration, select the Terms of Service check box, and then click **Buy Now** to complete the payment.

Renew a cross-border acceleration bandwidth plan

1. Log on to the Global Accelerator console.

2. On the **Instances** page, find the GA instance that you want to manage and click its ID.

3. On the instance details page, click the **Bandwidth Manage** tab.

4. In the **Cross-border Acceleration Bandwidth Plan** section, find the cross-border acceleration bandwidth plan that you want to renew and click **Renew** in the **Actions** column.

5. On the **Renew** page, specify the renewal duration, select the Terms of Service check box, and then click **Buy Now** to complete the payment.

4.Pay by 95th percentile bandwidth

Basic bandwidth plans and cross-border acceleration bandwidth plans support the billing method of pay by 95th percentile bandwidth. If the bandwidth usage is high and the peak bandwidth cannot be estimated, we recommend that you use this billing method.

> ⑦ **Note**   Only users who are added in the whitelist can purchase basic bandwidth plans and cross-border acceleration bandwidth plans on a pay by 95th percentile bandwidth basis. If you are not in the whitelist and need to use this billing method, submit a ticket.

Billing method

The following formula shows how bandwidth usage is billed on a pay by 95th percentile bandwidth basis:

- Calculation formula

  Total fee of each bandwidth plan = Max (Average of minimum bandwidth guaranteed, 95th percentile bandwidth) × Price of the month × Percentage of valid days

  Max (Average of minimum bandwidth guaranteed, 95th percentile bandwidth) represents the larger value between the average of minimum bandwidth guaranteed and the 95th percentile bandwidth of the month. For more information, see Average of minimum bandwidth guaranteed and 95th percentile bandwidth.

- Billing cycle

  Bills of pay by 95th percentile bandwidth plans are generated on a monthly basis.

- Billing date

  The bill for the current billing cycle is issued on the first day of the next calendar month. For example, on April 1, 2017, the bill of the previous month (00:00:00, March 1, 2017 to 23:59:59, March 31, 2017) was issued. After a bill is issued, the fees are automatically deducted from your account balance. Make sure that you have a sufficient balance in your account. Otherwise, overdue payments may occur.

Average of minimum bandwidth guaranteed

- Calculate the average of minimum bandwidth guaranteed

  Average of minimum bandwidth guaranteed = Total sum of minimum bandwidth guaranteed each day during the month/Number of days that the pay by 95th percentile bandwidth plan is used

- Calculate the minimum bandwidth guaranteed each day

  If the bandwidth plan is resized multiple times within a day, the minimum bandwidth guaranteed on the day equals the maximum bandwidth supported by the bandwidth plan on the day.

> ⑦ **Note**   By default, the valid bandwidth range of a bandwidth plan is from 100 to 2,000 Mbit/s. To adjust the bandwidth value or the percentage of the minimum bandwidth guaranteed, submit a ticket.

95th percentile bandwidth

The 95th percentile bandwidth of a bandwidth plan refers to the total sum of the 95th percentile bandwidths of a month in all acceleration regions specified in the bandwidth plan. The 95th percentile bandwidth of a month in each acceleration region is calculated based on the following rules:

The peak bandwidth value is calculated every five minutes. Within each five-minute interval, the average values of both the inbound and outbound bandwidth are collected. Between the average values of the inbound and outbound bandwidth, the larger value is used as a data point. The collected data points are sorted in descending order. The top 5% of the data points are excluded and then the largest value among the remaining 95% of the data points is used as the 95th percentile bandwidth of the month.

For example, you have purchased a pay by 95th percentile bandwidth plan that has a peak bandwidth value of 300 Mbit/s. China (Beijing), China (Shanghai), and China (Hangzhou) are specified as acceleration regions.

- The maximum bandwidths allocated to China (Beijing), China (Shanghai), and China (Hangzhou) are 100 Mbit/s, 80 Mbit/s, and 120 Mbit/s, respectively.

- The 95th percentile bandwidths during a month in the China (Beijing), China (Shanghai), and China (Hangzhou) regions are calculated separately. Assume that the 95th percentile bandwidths in the regions are 80 Mbit/s, 50 Mbit/s, and 60 Mbit/s, respectively.

- Therefore, the total 95th percentile bandwidth of the bandwidth plan is 80 Mbit/s + 50 Mbit/s + 60 Mbit/s = 190 Mbit/s.

Percentage of valid days

Percentage of valid days = The number of days that the pay by 95th percentile bandwidth plan is used/The total number of calendar days of the month

Examples

Scenarios:

- You have purchased a basic bandwidth plan, the type of which is enhanced acceleration bandwidth. The billing method of the basic bandwidth plan is pay by 95th percentile bandwidth.

- From June 1 to June 10, you set the bandwidth to 200 Mbit/s. From June 11 to June 20, you set the bandwidth to 300 Mbit/s. On June 20, you deleted the bandwidth plan.

- China (Beijing), China (Shanghai), and China (Hangzhou) are specified as acceleration regions.

- Assume that the price of each month is USD 55.

Calculation of fees:

- From June 1 to June 10, the minimum bandwidth guaranteed is 60 Mbit/s per day. From June 11 to June 20, the minimum bandwidth guaranteed is 90 Mbit/s per day.

  Average of minimum bandwidth guaranteed = (60 Mbit/s × 10 + 90 Mbit/s × 10)/20 = 75 Mbit/s

- The 95th percentile bandwidths in the China (Beijing), China (Shanghai), and China (Hangzhou) regions are calculated separately. Assume that the 95th percentile bandwidths in the regions are 30 Mbit/s, 30 Mbit/s, and 30 Mbit/s, respectively.

  The total 95th percentile bandwidth of the bandwidth plan = 30 Mbit/s + 30 Mbit/s + 30 Mbit/s = 90 Mbit/s

- Choose the larger value between the average of minimum bandwidth guaranteed and the 95th percentile bandwidth, which is 90 Mbit/s.

  The price of each month is USD 55.

- The total bandwidth usage fee of the month = 90 Mbit/s × USD 55 × 20/30 = USD 3,300