Alibaba Cloud
Global Acceleration

Product Introduction

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Generic conventions

Table -1: Style conventions

Style	Description	Example
⛔	This warning information 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.
⚠️	This warning information 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 restore business.
📋	This indicates warning information, supplementary instructions, and other content that the user must understand.	ⓘ Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	📋 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the `cd / d C :/ windows` command to enter the Windows system folder.
Italics	It is used for parameters and variables.	`bae log list -- instanceid` *`Instance_ID`*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *`[-all|-t]`*

| Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

Contents

1 What is Global Acceleration?

Global Acceleration is a network acceleration product. Based on the Alibaba Cloud network, Global Acceleration uses access points worldwide to speed up Internet access to services hosted in one region for users located in other regions. It reduces the impact of network issues like latency, jitters, and packet loss on service, and provides a superior experience for global service users.

Before using Global Acceleration, you must buy and create a Global Acceleration instance. A Global Acceleration instance can accelerate the Internet access of your services for users worldwide. As shown in the following figure, you can create a Global Acceleration instance to accelerate the Internet access for applications deployed on an ECS instance or an SLB instance located in one region for users located in other regions. In this case, the services of applications deployed on instances in the China (Beijing) region are accelerated for users in the Western United States regions.

Currently, Global Acceleration only supports accelerating the access to applications deployed in ECS instances and SLB instances of the VPC network.
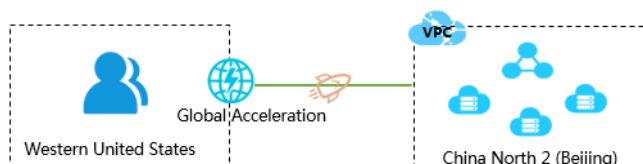
Accelerated Area

An *accelerated area* is an area that requires faster access over the Internet to your service. It consists of one or more Alibaba Cloud regions. Select an accelerated area to optimize service access for your customers there. After selecting an accelerated area, you must select the specific region within the acceleration area where the Global Acceleration instance is created. Users in the instance region will experience the greatest improvement to their service, and so we recommend selecting the region that has the greatest number of users.

Each accelerated area contains one or more Alibaba Cloud regions, as shown in the following table.

> 📋 Note:

> If you want to select Asia and Europe as the accelerated area, contact your customer manager.

For example, if you want to accelerate the Internet access to your service for users in North America, then select North America as the accelerated area when you create a Global Acceleration instance. A public IP is allocated to the Global Acceleration instance in the selected region for users in North America to access your service.

Accelerated area	Included regions
Mainland China	China (Qingdao) China (Beijing) China (Zhangjiakou) China (Hangzhou) China (Hohhot) China East 2 (Shanghai) China (Shenzhen)
Asia Pacific	China (Hong Kong) Singapore Japan (Tokyo)
North America	US (Silicon Valley) US (Virginia)
Europe	Germany (Frankfurt) UK (London)
Australia	Australia (Sydney)
Middle East	UAE (Dubai)

Service Area

A *service area* is an area where the ECS instance or the SLB instance that hosts the backend service to be accelerated, is located. You must specify a service area when

creating a Global Acceleration instance, and you cannot change it after the instance is created.

A service area is a collection of Alibaba Cloud regions. Each service area contains one or more regions as shown in the following table.

For example, if the website to have accelerated access is deployed in an ECS instance in China (Beijing), then select China Mainland as the service area when you create a Global Acceleration instance.

Accelerated area	Included regions
Mainland China	China (Qingdao)
	China (Beijing)
	China (Zhangjiakou)
	China (Hangzhou)
	China (Hohhot)
	China East 2 (Shanghai)
	China (Shenzhen)
Asia Pacific	China (Hong Kong)
	Singapore
	Japan (Tokyo)
North America	US (Silicon Valley)
	US (Virginia)
Europe	Germany (Frankfurt)
	UK (London)
Australia	Australia (Sydney)
Middle East	UAE (Dubai)

Backend service

A backend service is the service that you want to accelerate. You can bind an ECS instance or an SLB instance to a Global Acceleration instance.

📋 **Note:**

The backend service must be located in the region of the selected service area.

2 Benefits

Global Acceleration is easy to configure. You can bind the backend service that you want to accelerate to a Global Acceleration instance at any time. The configuration takes effect immediately.

Global Acceleration has the following benefits:

· Independently purchased and owned

  - You can purchase a Global Acceleration instance as an independent resource, instead of bundling with other computing resources or storage resources.
  - Each Global Acceleration instance is an independent resource under your account.

· Elastic binding

  You can bind a backend service to a Global Acceleration instance to accelerate the Internet access, and unbind that backend service whenever the Internet accelerati on is no longer required.

· Configurable network capabilities

  You can adjust the bandwidth of a Global Acceleration instances based on your business needs. Changes take effect in real time.

  - The bandwidth range is 10-1000 Mbps. The maximum bandwidth that a Global Acceleration instance can use to access a backend service is 1000 Mbps and the minimum bandwidth is 10 Mbps. Contact your customer manager to apply for a larger bandwidth.
  - If the bandwidth is between 10-100 Mbps, the gradient is 10 Mbps.
  - If the bandwidth is larger than 100 Mbps, the gradient is 100 Mbps.

3 Limits

Resource	Default limit	Can apply for a higher quota?
Number of Global Acceleration instances per account	5	Submit a ticket
Supported backend services	ECS and SLB instances of the VPC network	No
Number of backend services per dedicated-bandwidth instance	1	No
Number of Global Acceleration instances that a backend service can bind to	20	Submit a ticket