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# Alibaba Cloud

## Function Compute API Reference

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 Alibaba Cloud

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# Document conventions

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

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# 1. Error codes

When an error occurs in an API request, Function Compute returns an error message. This topic lists common error codes in Function Compute.

## Error code format

An error code contains an HTTP status code and error details in the response body. The error details in the response body are in the following formats:

```
{
  "errorCode" : <ErrorCode>,
  "errorMessage" : <ErrorMessage>
}
```

## Common error codes

Among all the error messages that may be returned by Function Compute, some of them are common to most API operations, whereas the others are unique to specific API operations. The following table lists the common error codes in Function Compute API responses. The error codes can appear in multiple API responses. Error codes unique to an API operation are described in the corresponding API operation.

HTTP status code	Error code	Cause	Solution
400	InvalidArgument	The error message returned because the specified parameter is invalid.	Check whether all input parameters are valid. For more information, see <a href="#">API specification</a> .
400	MissingRequiredHeader	The error message returned because the required request header is missing.	Add the request header based on the error message.
400	LimitExceededError	The error message returned because resources such as functions, triggers, and custom domain names exceed the limits.	Delete unnecessary resources based on the error message. To apply for more resources, contact the Function Compute team. For contact details, see <a href="#">Contact us</a> .
400	PathNotSupported	The error message returned because the requested API path is invalid.	Check whether the requested API path is correct. For more information, see <a href="#">API specification</a> .

HTTP status code	Error code	Cause	Solution
400	EntityTooLarge	The error message returned because the input parameter value exceeds the valid value range.	Enter a valid value based on the error message.
403	AccessDenied	The error message returned because the account does not have permissions to perform the operation.	Grant access permissions on Function Compute to the account.
403	SignatureNotMatch	The error message returned because the digital signature of the request does not match that calculated in Function Compute.	Calculate the signature based on the signature rules.
403	InvalidAccessKeyID	The error message returned because the AccessKey ID is invalid.	Enter a valid AccessKey ID.
409	ConcurrentUpdateError	The error message returned because resources such as services, functions, and triggers are being concurrently updated.	Update resources sequentially to avoid data inconsistency.
429	ResourceExhausted	The error message returned because the concurrency limit has been exceeded.	Contact the Function Compute team to raise your concurrency limit. For contact details, see <a href="#">Contact us</a> .
499	ClientClosedRequest	The error message returned because the client has been disconnected.	Connect to the client and adjust the disconnection time.
500	InternalServerError	The error message returned because an internal server error occurred when your request is processed.	<a href="#">Contact us</a> .

HTTP status code	Error code	Cause	Solution
503	ResourceThrottled	The error message returned because the required number of instances exceeds the limit.	Contact the Function Compute team to evaluate your instance quota. For contact details, see <a href="#">Contact us</a> .

# 2.Endpoints

An endpoint is the URL used to gain access to the Function Compute service. To use the computing resources of Function Compute, you must use your Alibaba Cloud account and the Function Compute endpoint to access Function Compute.

## Domain name format

A domain name consists of **your Alibaba Cloud account ID** and **Endpoints**. A domain name is in the format of `account_id.service_endpoint` .

Assume that your Alibaba Cloud account ID is 16530750. In this case, `account_id` is 16530750 .

If you deploy the Function Compute service in China (Shanghai), `service_endpoint` is `cn-shanghai.fc.aliyuncs.com` . In this case, you can use `16530750.cn-shanghai.fc.aliyuncs.com` to connect to the Function Compute service in the China (Shanghai) region.

## Obtain an Alibaba Cloud account ID

To query your Alibaba Cloud account ID, perform the following steps:

1. Log on to the [Alibaba Cloud console](#).
2. Click the account in the upper-right corner, such as `funCustomer*****@aliyun.com`. On the account menu that appears, click **Security Settings**.
3. Find the Alibaba Cloud account ID on the page that appears.



## Endpoints

An endpoint is the URL used to connect to the Function Compute service. Endpoints can be classified into public endpoints and internal endpoints.

- Public endpoints

Bandwidth fees will be incurred for data transmission over a public network. For more information about the fees, see [Billing methods](#). The following table lists the regions where the Function Compute service is available and endpoints that allow you to gain access to the Function Compute service as required.

Region	Endpoint
China (Hangzhou)	cn-hangzhou.fc.aliyuncs.com
China (Shanghai)	cn-shanghai.fc.aliyuncs.com
China (Qingdao)	cn-qingdao.fc.aliyuncs.com
China (Beijing)	cn-beijing.fc.aliyuncs.com
China (Zhangjiakou-Beijing Winter Olympic)	cn-zhangjiakou.fc.aliyuncs.com
China (Hohhot)	cn-huhehaote.fc.aliyuncs.com



Region	Endpoint
China (Shenzhen)	cn-shenzhen.fc.aliyuncs.com
China (Hong Kong)	cn-hongkong.fc.aliyuncs.com
Japan (Tokyo)	ap-northeast-1.fc.aliyuncs.com
Singapore (Singapore)	ap-southeast-1.fc.aliyuncs.com
Australia (Sydney)	ap-southeast-2.fc.aliyuncs.com
India (Mumbai)	ap-south-1.fc.aliyuncs.com
Germany (Frankfurt)	eu-central-1.fc.aliyuncs.com
US (Virginia)	us-east-1.fc.aliyuncs.com
US (Silicon Valley)	us-west-1.fc.aliyuncs.com

- **Internal endpoints**

High-speed internal networks have been created between Alibaba Cloud services in all regions to provide a gigabit shared bandwidth. These services include Function Compute, Elastic Compute Service (ECS), ApsaraDB for RDS (RDS), Server Load Balancer (SLB), and Object Storage Service (OSS). You can use internal endpoints to interconnect the Alibaba Cloud services. If your data needs to be transmitted between different services in the same region, we recommend that you use one of the following internal endpoints for connection to avoid consuming public traffic.

Region	Endpoint
China (Hangzhou)	cn-hangzhou-internal.fc.aliyuncs.com
China (Shanghai)	cn-shanghai-internal.fc.aliyuncs.com
China (Qingdao)	cn-qingdao-internal.fc.aliyuncs.com
China (Beijing)	cn-beijing-internal.fc.aliyuncs.com
China (Zhangjiakou-Beijing Winter Olympic)	cn-zhangjiakou-internal.fc.aliyuncs.com
China (Hohhot)	cn-huhehaote-internal.fc.aliyuncs.com
China (Shenzhen)	cn-shenzhen-internal.fc.aliyuncs.com
China (Hong Kong)	cn-hongkong-internal.fc.aliyuncs.com
Japan (Tokyo)	ap-northeast-1-internal.fc.aliyuncs.com
Singapore (Singapore)	ap-southeast-1-internal.fc.aliyuncs.com
Australia (Sydney)	ap-southeast-2-internal.fc.aliyuncs.com

Region	Endpoint
India (Mumbai)	ap-south-1-internal.fc.aliyuncs.com
Germany (Frankfurt)	eu-central-1-internal.fc.aliyuncs.com
US (Virginia)	us-east-1-internal.fc.aliyuncs.com
US (Silicon Valley)	us-west-1-internal.fc.aliyuncs.com

## References

For more information, see [Regions and zones](#).