Alibaba Cloud

CloudConfig

FAQ

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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.Activate Cloud Config

1.1. Why is cloud resource access authorization required when I activate Cloud Config?

When you activate Cloud Config, you must assign a RAM role to Cloud Config so that Cloud Config can assume the role to access resources under your account by calling API operations provided by different services. After the authorization is complete, Cloud Config can obtain configuration details of the resources under your account and evaluate these resources.

1.2. Why am I unable to find data on the Overview page of the Cloud Config console after I authorize Cloud Config to access my resources?

After you authorize Cloud Config to access your resources and log on to the Cloud Config console for the first time, it takes about 2 to 10 minutes for the Cloud Config service to initialize. In the process, Cloud Config obtains the resource data in all the regions of each service that belongs to your account. Wait until the service initialization is complete. For more information about how to authorize Cloud Config to access your resources, see Quick start for ordinary accounts.

2.Resources

2.1. Why some of my resources are not listed in the console?

- If no data of a specific type of resource appears in the console, it is because Cloud Config does not support this resource type. In this case, you can submit a ticket to us. We will support the resource type as soon as possible.
- If some data of a specific type of resource does not appear in the console, it may result from certain data problems. In this case, you can submit a ticket to apply for troubleshooting.

2.2. Why does no related record appear on the configuration timeline after a configuration is changed?

Cloud Config detects configuration changes at a regular interval of 10 minutes. Wait until the record appears on the configuration timeline. The detection can be completed within 10 minutes. Note that Cloud Config may fail to detect a configuration change if it occurs but is restored within the same 10-minute interval. In this case, no record will be added to the configuration timeline for the change.

2.3. Why does Cloud Config not detect a configuration change that results in non-compliance?

The configuration change may occur and be restored within the same 10-minute interval. If a rule is set to be triggered upon **configuration changes**,

Cloud Config compares the differences between the configuration snapshots taken at the beginning and end of the 10-minute interval and then evaluates the specific resource based on the comparison. If a configuration change occurs and is restored within the same 10-minute interval, Cloud Config may fail to detect the change.

3.Rules

3.1. How do I obtain more managed rules?

You can submit a ticket to describe the rules that you require. For more information about the rule formats, see List of managed rules by cloud service. If the rule is appropriate, Alibaba Cloud will support it and implement rules with universal applicability as managed rules.

3.2. Why are my resources not evaluated after I configure a rule?

- Cloud Config evaluates your resources only when a trigger occurs. If a rule is set to be triggered at **a scheduled time point**, the involved resources will be evaluated by the rule at that time point.

- If a rule is set to be triggered upon **configuration changes**, the involved resources will be evaluated by the rule after resource configurations are changed.

You can go to the details page of a rule and click **Re-evaluate** to obtain the latest audit result.

3.3. What is the relationship between the compliance timeline and the configuration timeline?

A point on the compliance timeline indicates the result of a compliance evaluation run by Cloud Config at a scheduled time point, triggered upon a configuration change, or manually run. A point on the configuration timeline indicates the record of a configuration change. For a compliance evaluation triggered upon a configuration change, a pair of points is added to the compliance timeline and configuration timeline respectively at the same time.

4.Custom rules

4.1. How do I configure a custom rule?

For more information about how to configure a custom rule, see Custom rule functions.

4.2. What is the data structure of functions that can be used to create custom rules?

This topic describes the data structure of functions that can be used to create custom rules. To enable Cloud Config to execute a custom rule-based function, you must create the function with the following data structure in Function Compute:

```
{
  "invokingEvent": {
    "messageType": "ScheduledNotification",
    "notificationCreationTimestamp": 1600610821106,
    "accountId": {The ID of the Alibaba Cloud account that owns the resource},
    "configurationItem": {
      "accountId": {The ID of the Alibaba Cloud account that owns the resource},
      "availabilityZone": "",
      "regionId": "ap-southeast-1",
      "configuration": "{\"UpdateDate\":\"2019-10-21T08:02:58Z\",\"UserName\":\"test123\",\
"AccessKeys\":\"AccessKey\":[]},\"UserId\":\"{The ID of the RAM user}\",\"Comments\":\"\",\
"DisplayName\":\"test123\",\"CreateDate\":\"2019-10-21T07:57:55Z\",\"LoginProfile\":{\"Pass
wordResetRequired\":false,\"UserName\":\"test123\",\"MFABindRequired\":false,\"CreateDate\"
:\"2019-10-21T07:57:55Z\"}}",
      "captureTime": 1600610821106,
      "resourceCreateTime": 1571644675000,
      "resourceId": "20082888873117****",
      "resourceName": "test123",
      "resourceType": "ACS::RAM::User",
      "tags": ""
    }
  },
  "ruleParameters": {
    "dangerousActions": "ecs:*,oss:*,log:*"
  },
  "resultToken": "HLQr3BZx/C+DLjwudFcYdUsiYzW485CJlYIMAAUjibdHcJhG2uvgKZ9tXaFh2yvVUxO2+tFf3
whxOmGigYQErk1ymtmLWLzFV4JForVWYIKdbwwhbDBOgVwF7Ov9c3uVCNz/KpxNElwhTzMkZB95U1vmLs4vUYXuB/Tx
w4jiCYAZuoGWYC/HJwYdSFOHkjAajIswBuzIbX5qFXfwpaqviNDW3I5q8O+Kx7eSYkqqGTYz1ncQdx3sXNSII/TW***
*"
```

The following table describes the main parameters in the data structure of functions that can be used to create custom rules.

Parameter	Description	Example
accountId	The ID of the Alibaba Cloud account that owns the resource.	169827232854****
regionId	The ID of the region to which the resource belongs.	ap-southeast-1
resourceId	The ID of the resource.	20082888873117****
resourceName	The name of the resource.	Alice
resourceType	The type of the resource.	ACS::RAM::User
ruleParameters	The input parameter of the rule.	`"dangerousActions": "ecs:*,oss:*,log:*"`