

Config

Getting Started

Issue	01
Date	2025-07-04



Copyright © Huawei Cloud Computing Technologies Co., Ltd. 2025. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Cloud Computing Technologies Co., Ltd.

Trademarks and Permissions



HUAWEI and other Huawei trademarks are the property of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei Cloud and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Contents

1 Enabling the Resource Recorder..... 1

2 Filtering Resources..... 5

3 Evaluating Resource Compliance.....9

1 Enabling the Resource Recorder

Scenarios

The resource recorder automatically detects and records changes made to your resources that are supported by Config.

If you have enabled the resource recorder and specified an OBS bucket and an SMN topic when you configure the resource recorder, Config will notify you if there is a change (creation, modification, deletion, relationship change) to the resources within the monitoring scope and periodically store your notifications and resource snapshots.

To get full functionality of Config, you need to enable the resource recorder. If the resource recorder is disabled, you may fail to update your resource data, create and use rules, or to aggregate resource data.

This section describes how to enable and configure the resource recorder.

Preparations

1. If you already have a Huawei account, skip this step. If you do not have one, follow the following steps to create one:

- a. Go to [Huawei Cloud](#) and click **Sign Up**.
- b. [Sign up for a Huawei account and enable Huawei Cloud services](#).
After your account is created, you will be directed to your personal information page.
- c. Complete real-name authentication by following the instructions in [Individual Real-Name Authentication](#) or [Enterprise Real-Name Authentication](#).

2. Topping Up Your Account


Config is free of charge, but the SMN topic and the OBS bucket that you configured for the resource recorder will be charged. For details, see [SMN billing](#) and [OBS billing](#).

Ensure your account has sufficient balance to avoid unavailability of the resource recorder and other functions of Config. For more details, see [Topping up an Account](#).

Procedure

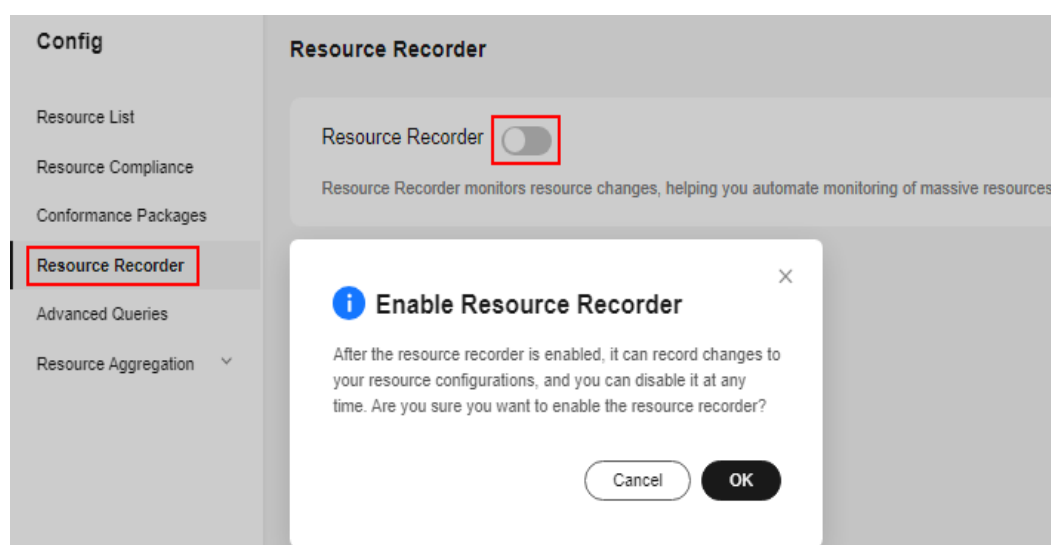
The following steps describe only the mandatory parameters for the resource recorder. Retain the default values for other parameters. For more information about how to configure the resource recorder, see [Configuring the Resource Recorder](#).

Step 1 Log in to the management console.

Step 2 Click  in the upper left corner of the page. In the displayed service list, under **Management & Governance**, select **Config**.

Step 3 In the navigation pane on the left, choose **Resource Recorder**.

Step 4 Toggle on the resource recorder and in the displayed dialog box, click **OK**.




Step 5 Specify an OBS bucket.

Resource Dump

When data dump is enabled, resource change information is saved to the specified OBS bucket.

☒ Your bucket ☐ Other users' bucket

(Optional) Folder prefix

 [Create OBS Bucket](#)

Select an OBS bucket from the current account or another account to store resource change messages and snapshots.

If there are no OBS buckets in the current account, create one first. For details, see [Creating a Bucket](#).

Step 6 Configure an SMN topic.

Topic ☒

Resource changes and notifications can be transmitted to an SMN topic. If you configure an email address as the notification endpoint of an SMN topic, a large number of emails will be generated.

[Create Topic](#)

Toggle on the SMN topic, select **Your topic**, and select a region and an SMN topic.

If there are no SMN topics available in the current account, create one first. For details, see [Creating a Topic](#).

NOTE

To send notifications with an SMN topic, you not only need to create the topic, but also [add subscriptions](#) and [request subscription confirmations](#).

Step 7 Specify a data retention period.

Data Retention Period

☒ Seven years (2,557 days) ☐ A custom period

You can select **Seven years (2,557 days)** or customize a period.

Step 8 Grant permissions.

Authorization

Upon your authorization, the Resource Recorder will send resource change information to your SMN topics and OBS buckets.

☒ Quick authorization ☐ Custom agency

Quick granting will automatically create an agency named **rms_tracker_agency** to grant the required permissions for the resource recorder to work properly. The agency contains permissions, including the **SMN Administrator** for sending notifications and the **OBS OperateAccess** permission for writing data into an OBS bucket.

Step 9 Click **Save**.

Step 10 In the displayed dialog box, click **OK**.

----End

Related Information

You can modify or disable the resource recorder at any time. You can enable or modify the resource recorder for up to 10 times per day. The number of times will be reset at 00:00 every day.

- When configuring the resource recorder, you can select OBS buckets or SMN topics of other accounts. However, you must first use the other accounts to authorize the current account. For details, see [Cross-Account Authorization](#).
- If you select **Custom granting** to customize authorization for the resource recorder, you need to create an agency with IAM, and the agency must include either the permissions for sending notifications using an SMN topic or

the permissions for writing data into an OBS bucket based on related configurations. If you want to store resource change messages and resource snapshots in an OBS bucket encrypted using KMS, you will also need the KMS Administrator permission. For details, see [Storing Resource Change Notifications and Resource Snapshots to an Encrypted OBS Bucket](#) in the *Config User Guide*. For details about how to create an agency, see [Cloud Service Agency](#).

2 Filtering Resources

Scenario

This section describes how to filter resources on the Config console. You can get details about resources, such as the region and state.

NOTE

To use the resource list, you must enable the resource recorder. If no resources are displayed on the resource list page, check if the resource recorder is enabled, if the resource type is within the configured monitoring scope, or if the service or resource is supported by Config.

There is a delay in synchronizing data to Config, so if there is a resource change, the change may not be updated in the resource list immediately. If the resource recorder is enabled, Config will update resource changes within 24 hours.

Preparations

1. If you already have a Huawei account, skip this step. If you do not have one, follow the following steps to create one:

- a. Go to [Huawei Cloud](#) and click **Sign Up**.
- b. [Sign up for a Huawei account and enable Huawei Cloud services](#).
After your account is created, you will be directed to your personal information page.
- c. Complete real-name authentication by following the instructions in [Individual Real-Name Authentication](#) or [Enterprise Real-Name Authentication](#).

2. Topping Up Your Account

Config is free of charge, but the SMN topic and the OBS bucket that you configured for the resource recorder will be charged. For details, see [SMN billing](#) and [OBS billing](#).


Ensure your account has sufficient balance to avoid unavailability of the resource recorder and other functions of Config. For more details, see [Topping up an Account](#).

3. [Enabling the Resource Recorder](#)

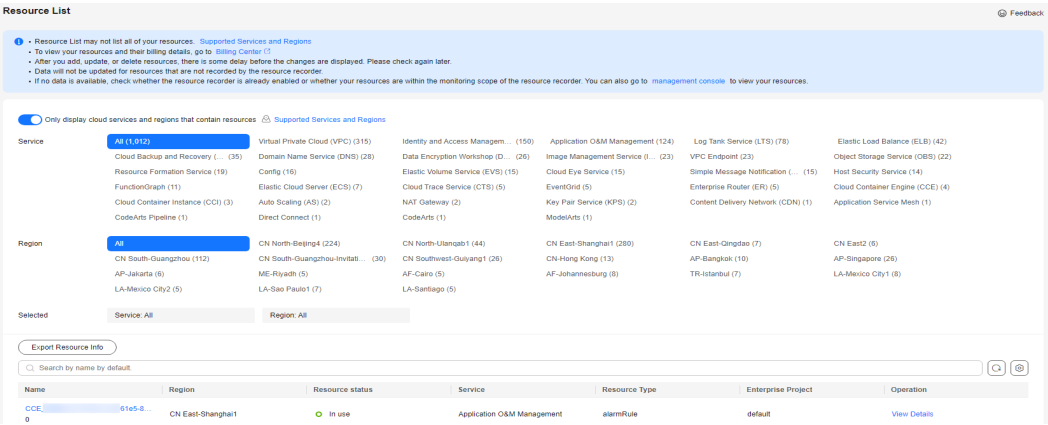
To use the resource list, the resource recorder must be enabled.

Procedure

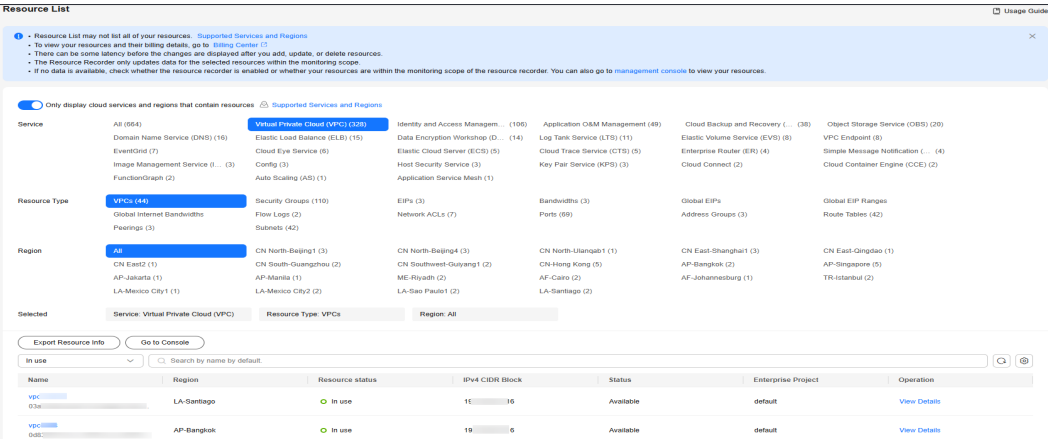
Step 1 Log in to the management console.

Step 2 Click  in the upper left corner of the page. Under **Management & Governance**, select **Config**.

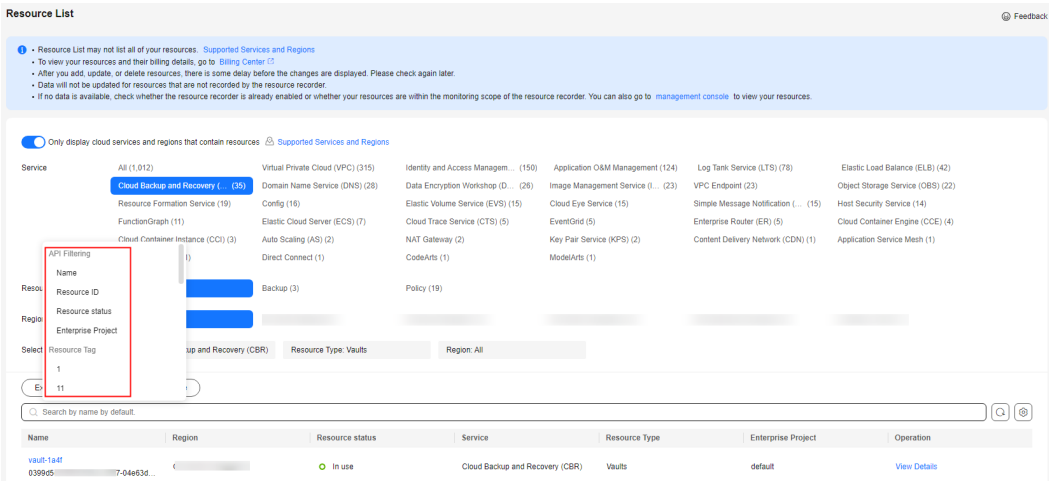
By default, the **Resource List** displays the resources that you have and are within the monitoring scope of the resource recorder.



Step 3 Set filters (service, resource type, and region) to search for resources. For global services, you do not need to set the region.



Step 4 In the search box in the middle of the page, set more refined filters to narrow down the search scope.



Filter	Description
Name	Resource name. Fuzzy search is supported. The resource name is case-insensitive.
Resource ID	Resource ID. Fuzzy search is supported. The resource ID is case-sensitive.
Resource status	Resource status. Possible resource states include: <ul style="list-style-type: none">● In use: A resource is being used.● Deleted: A resource has been deleted.
Tag	Resource tag. You can select a tag key and one or all values of this key to filter resources.
Enterprise project	The enterprise project which resources belong to. If you select an enterprise project, resources in this enterprise project will be displayed. NOTE To filter resources by enterprise project, you need to enable Enterprise Center first.

-----End

Related Information

The resource list allows you to perform the following operations on your resources:

- [Querying Details About a Resource](#)
- [Exporting the Resource List](#)
- [Viewing Resource Compliance Data](#)
- [Viewing Resource Relationships](#)
- [Viewing Resource Changes](#)

Config provides the following advanced functions to query resources more accurately.

- [Advanced Queries](#)
- [Resource Aggregation](#)

3 Evaluating Resource Compliance

Scenario

You can create a rule to evaluate your resource compliance. When creating a rule, you need to select [a built-in policy](#) or a custom policy, specify a monitoring scope, and specify the [trigger](#). After the evaluation, you can check the evaluation results.

This section uses the built-in policy for IAM user [Last Login Check](#) as an example to describe how to detect inactive IAM users. This policy can help reduce idle users and password leakage risks for enhanced account security.


Preparations

1. If you already have a Huawei account, skip this step. If you do not have one, follow the following steps to create one:
 - a. Go to [Huawei Cloud](#) and click **Sign Up**.
 - b. [Sign up for a Huawei account and enable Huawei Cloud services](#).
After your account is created, you will be directed to your personal information page.
 - c. Complete real-name authentication by following the instructions in [Individual Real-Name Authentication](#) or [Enterprise Real-Name Authentication](#).
2. Topping Up Your Account
Config is free of charge, but the SMN topic and the OBS bucket that you configured for the resource recorder will be charged. For details, see [SMN billing](#) and [OBS billing](#).
Ensure your account has sufficient balance to avoid unavailability of the resource recorder and other functions of Config. For more details, see [Topping up an Account](#).
3. [Enabling the Resource Recorder](#)
The resource recorder must be enabled for adding, modifying, enabling, or triggering a rule. If the resource recorder is disabled, you can only view, disable, and delete rules. In addition, only resources within the monitoring scope of the resource recorder can be evaluated by Config rules, so you are advised to select all your resources when you configure the resource recorder.

Step 1: Add a Rule

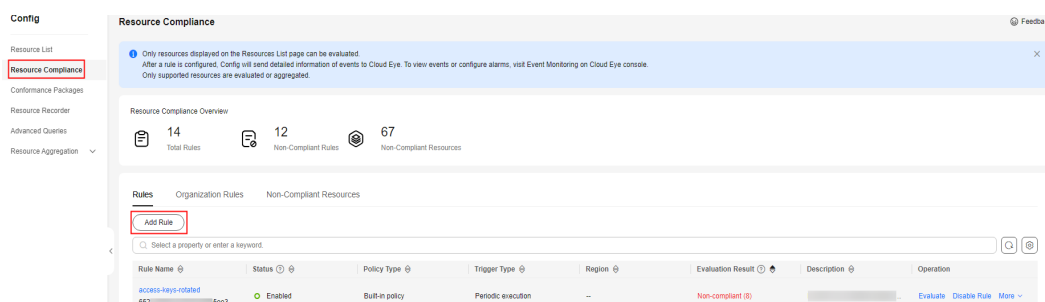
The following steps are only for reference. For details about all the parameters, see section [Adding a Rule Based on a Built-in Policy](#).

Step 1 Log in to the management console.

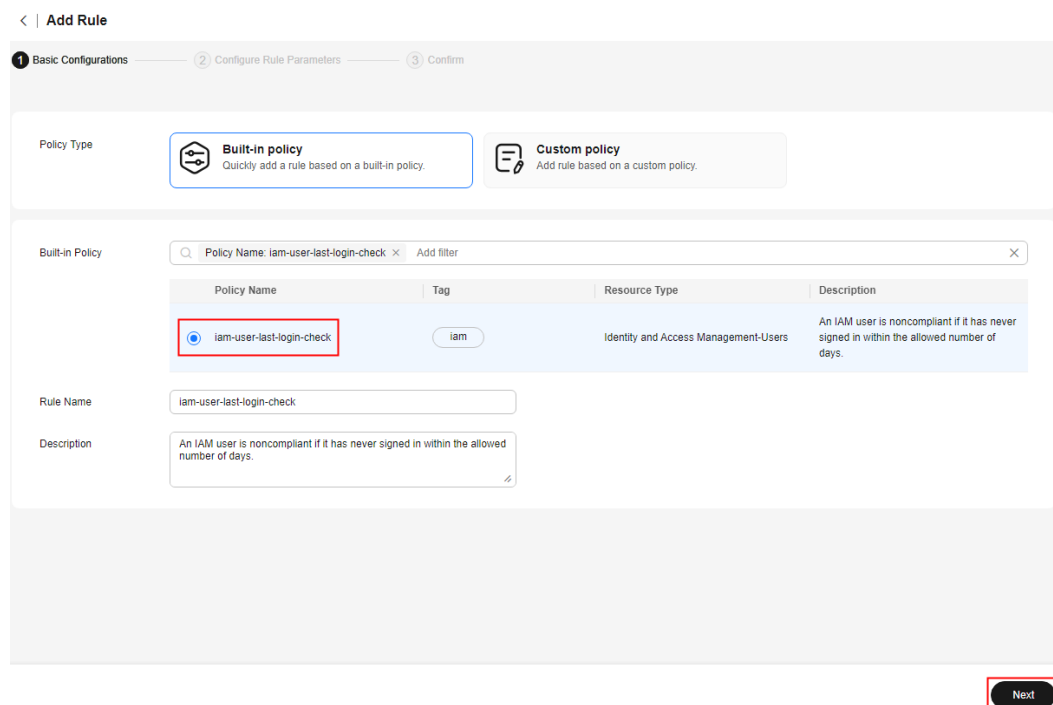
Step 2 Click  in the upper left corner of the page. In the service list that is displayed, under **Management & Governance**, select **Config**.

Step 3 In the navigation pane on the left, choose **Resource Compliance**.

Step 4 On the **Rules** tab, click **Add Rule**.



Step 5 On the **Basic Configurations** page, select the built-in policy **iam-user-last-login-check** and click **Next**.



Step 6 On the **Configure Rule Parameters** page, configure required parameters based on the following picture and click **Next**.

< | Add Rule

✓ Basic Configurations — 2 Configure Rule Parameters — 3 Confirm

* Trigger Type ☐ Configuration change ☒ Periodic execution

* Execute Every 24 hours

* Resource Scope All

Parameter	Description	Value
allowedInactivePeriod	Maximum number of days without login.	90

Tag

TMS's predefined tags are recommended for adding the same tag to different cloud resources. [Create predefined tags](#)

+ Add Tag

You can add 20 more tags.

Previous Next

Parameter	Example	Description
Execute Every	24 hours	How often a rule will be triggered. The rule will be periodically triggered at the configured frequency. Available options: 1 hour, 3 hours, 6 hours, 12 hours, 24 hours.
Resource Scope	All	The region where your resources are deployed. Only resources in the specified region will be evaluated.
Configure Rule Parameters	90	Number of days during which an IAM user has not logged in the system. The default value is 90 . If an IAM user does not log in to the system within the specified period of time, this user is noncompliant.

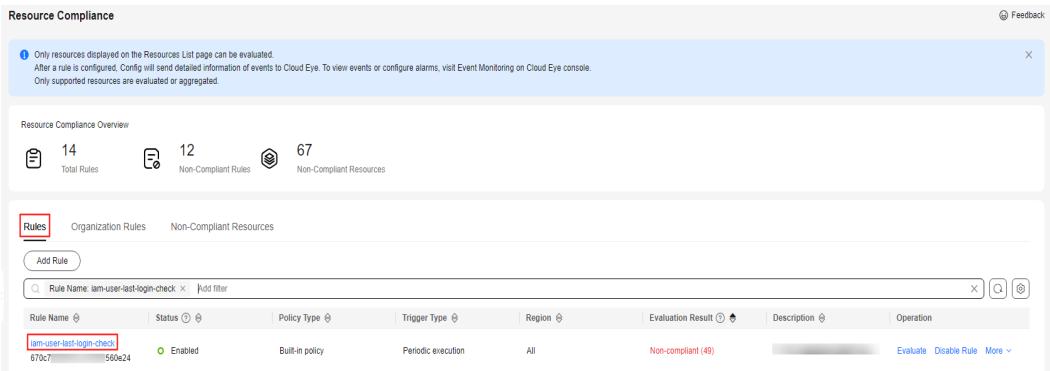
Step 7 On the **Confirm** page, confirm the rule information and click **Submit**.

After you add a rule, the first evaluation is automatically triggered immediately.

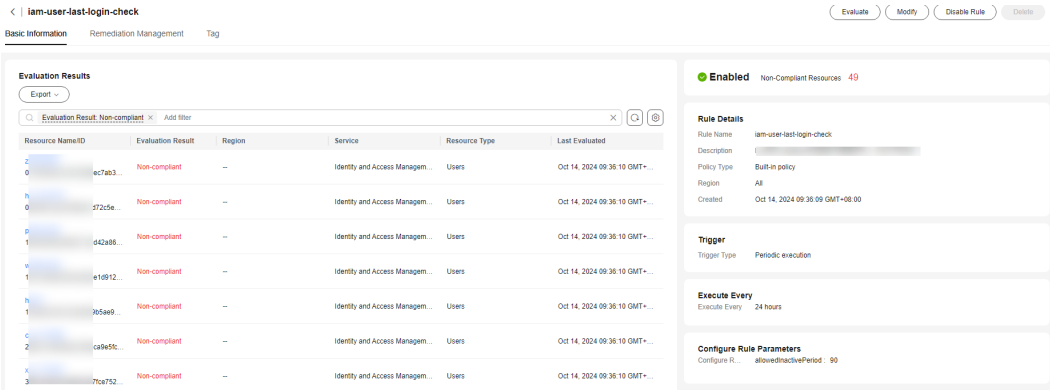
----End

Step 2: View evaluation results.

Step 1 On the **Rules** tab of the **Resource Compliance** page, click the name of the rule that was added in **Step 1**.



Step 2 View evaluation results and rule details on the **Basic Information** tab.



By default, noncompliant resources are displayed. Above the list, you can filter the resources by evaluation result, resource name, and resource ID. You can also export all evaluation results.

IAM users who do not log in to the management console within 90 days are listed as noncompliant users. You can make adjustments on these users as needed.

----End