**Optimization Advisor OA**

# Quick Start

**Issue**     01
**Date**     2025-09-05

# Huawei Technologies Co., Ltd.

| | |
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# Security Declaration

## Vulnerability

Huawei's regulations on product vulnerability management are subject to the *Vul. Response Process.* For details about this process, visit the following web page:
https://www.huawei.com/en/psirt/vul-response-process
For vulnerability information, enterprise customers can visit the following web page:
https://securitybulletin.huawei.com/enterprise/en/security-advisory

# Contents

# 1 Enabling OA

Before using Optimization Advisor (OA), you need to enable it. The following describes how to enable OA.

## Prerequisites

Before you start, sign up for a HUAWEI ID and enable Huawei Cloud services. For details, see **Signing Up**.
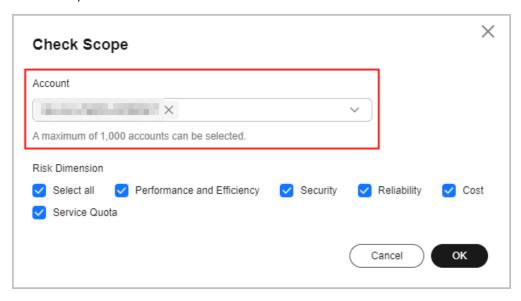
## Procedure

**Step 1**  Log in to the Huawei Cloud management console.

**Step 2**  In the upper left corner of the homepage, click  to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3**  Select **I have read and agree to the** *Optimization Advisor Service Statement* and click **OK**.

**Step 4**  Select **Access to Cloud Resources** and **Access to Check Result**, and click **OK**.

**----End**

# 2 Performing a Risk Check and Downloading the Check Report

Risk Check helps you check cloud resources in terms of performance, efficiency, reliability, security, cost optimization, and service quotas. It also provides dedicated checks by cloud service type. After the check is complete, you can export the report by risk dimension or cloud service as needed.

**Procedure**

**Step 1**  Log in to the Huawei Cloud management console.

**Step 2**  In the upper left corner of the homepage, click [≡] to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3**  In the navigation pane, choose **Overview**.

**Step 4**  Click **Start Check** in the upper right corner, set the check account and risk dimension, and then click **OK**.



**Step 5**  After the check is complete, click **Download** in the upper right corner of the page to save the check result to your local PC.

**Step 6** On the **Risk Check** page, you can check each check item by dimension and download the check result of each specific check.



**----End**

📖 **NOTE**
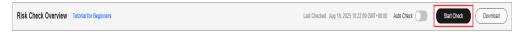
- Each Huawei Cloud account allows up to 10 daily checks, either manually or automatically triggered.

# 3 Using Auto Check
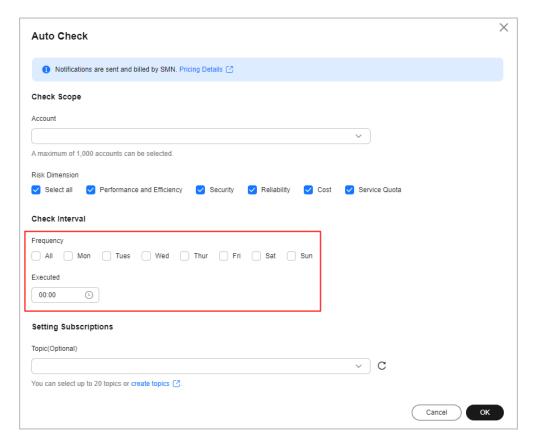
You can use the Auto Check function to schedule risk checks at specified time and intervals. Reports will be sent to you automatically. This helps you manage cloud resources more easily and keep your services running stably.

## Procedure

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click  to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Overview**.

**Step 4** Enable **Auto Check** in the upper right corner.



**Step 5** In the **Auto Check** dialog box, set the account, risk dimension, as well as execution frequency and time.

**Step 6** (Optional) Select a notification topic. Risk reports will be sent by email through Simple Message Notification (SMN).

**----End**

📖 **NOTE**

- Notifications are sent by SMN, which may incur a small amount of fees. The fees are settled by SMN. For details, see **Pricing Details**.

# 4 Viewing Historical Records

You can view the results of the last check on the **Risk Check Overview** page. You can also view the check records in the past month on the **Risk Check History** page and click any task ID to view the check result details.
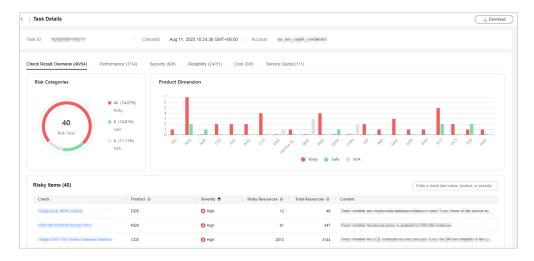
## Procedure

**Step 1**  Log in to the Huawei Cloud management console.

**Step 2**  In the upper left corner of the homepage, click ☰ to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3**  In the navigation pane, choose **Risk Check History**.

**Step 4**  The **Risk Check History** page displays the check records of the past month. Click a task ID to go to the **Task Details** page.

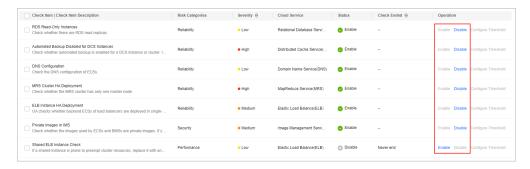| Task ID | Status | Account | Topic | Executed | Sent | Operation |
|---|---|---|---|---|---|---|
| | N/A | | -- | Aug 11, 2025 09:25:20 GMT+08:00 | -- | Export |
| | N/A | | -- | Aug 07, 2025 16:17:27 GMT+08:00 | -- | Export |
| | N/A | | -- | Aug 06, 2025 09:58:57 GMT+08:00 | -- | Export |
| | N/A | | -- | Aug 05, 2025 16:28:51 GMT+08:00 | -- | Export |
| | N/A | | -- | Aug 04, 2025 14:15:39 GMT+08:00 | -- | Export |

**Step 5**  On the **Task Details** page, view the check result details.

**----End**
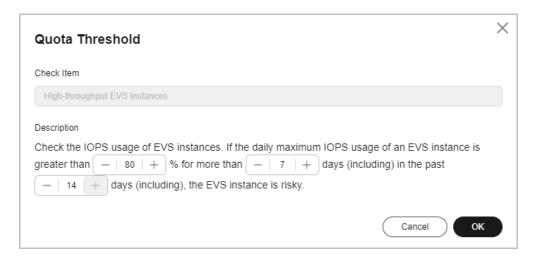
# 5 Customizing Check Rules

By default, all items are checked during a risk check. Some default thresholds, such as those for resource usage, are based on general experience and may not suit all users. You can customize the check rules as needed.

## Procedure

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click ☰ to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Custom Rules**.

**Step 4** Locate a specific check item and click **Disable** or **Enable** in the **Operation** column.



**Step 5** Select a check item whose **Risk Categories** is **Performance** or **Cost**, and click **Configure Threshold** to change the value of its risk threshold.

**----End**

 NOTE

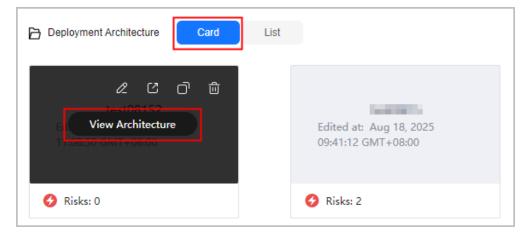- Changes to check item status (enabled or disabled) take effect in the next check. The current check result remains unaffected.
- Currently, risk thresholds can be customized only for the check items in the performance and cost dimensions.
- Check items in the cost dimension can be used only after you purchase a Business or Enterprise support plan.

# 6 Drawing a Deployment Architecture

You can use the Architecture Design function to draw your business architecture and cloud resource deployment architecture with ease. With this function, you also can monitor capacity risks, manage associated resources, and draw all links in one-click mode.
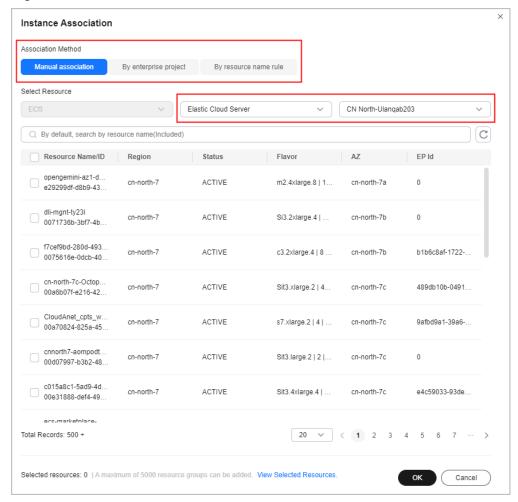
**Procedure**

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Architecture Design**.

**Step 4** Click the **Architecture Design** tab.

**Step 5** Click **Create Deployment Architecture** in the upper left corner. On the displayed page, enter the architecture name, select the architecture type (no impact on drawing), enter a description about the architecture, and select the deployment status (no impact on drawing).

**Step 6** In the **Card** view of **Deployment Architecture**, find the target architecture and hover the mouse over its center and click **View Architecture** to go to its details page.

**Step 7** Click **Architecture Drawings** above the drawing area to enable editing.

**Step 8** On the left pane, view the basic diagram elements and cloud service diagram elements required for drawing.

**Step 9** On the toolbar, click **Auto Draw**. Drag a **Subnet** diagram element to the canvas, click it, and then click **Auto Draw** in the properties panel.



**Step 10** In the **Auto Draw** dialog box, set the region, VPC, and subnet information, and click **Start analysis**. The system will identify resources within the subnet and organize them according to the logical structure. If VPC flow logs are enabled, the relationships between resources can be drawn.

**Step 11** In the toolbar on the left, click the **Full-Link Cloud Services** tab. All links of the cloud services provided here can be drawn with one click.

- Drag the diagram element of a cloud service, for example, Elastic Cloud Server (ECS), to the canvas.

- **Associate resources.** Click the ECS diagram element. In the properties panel, click **Instance Association**. In the displayed dialog box, set the association method, select a region and resource type to search for ECS resources in the region, select the desired resources, and click **OK**.

- **Use full-link drawing.** Click the ECS diagram element and click  in the properties panel to draw a full-link diagram.

**Step 12** In the toolbar on the left, click the **Deployed as Instances** tab. The cloud services displayed on this page support instance association.

- Drag the diagram element of a cloud service, for example, ECS, to the canvas.
- **Associate resources.** Click the ECS diagram element. In the properties panel, click **Instance Association**. In the displayed dialog box, set the association method, select a region and resource type to search for ECS resources in the region, select the desired resources, and click **OK**.

**----End**

# 7 Drawing a Business Architecture

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click [icon] to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Architecture Design**.

**Step 4** Click the **Architecture Design** tab.

**Step 5** Click **Create Business Architecture** in the upper left corner. On the displayed page, enter the architecture name, select the architecture type (no impact on drawing), enter a description about the architecture, and select the deployment status (no impact on drawing).

**Step 6** In the **Card** view of **Business Architecture**, find the target architecture and hover the mouse over its center and click **View Architecture** to go to its details page.
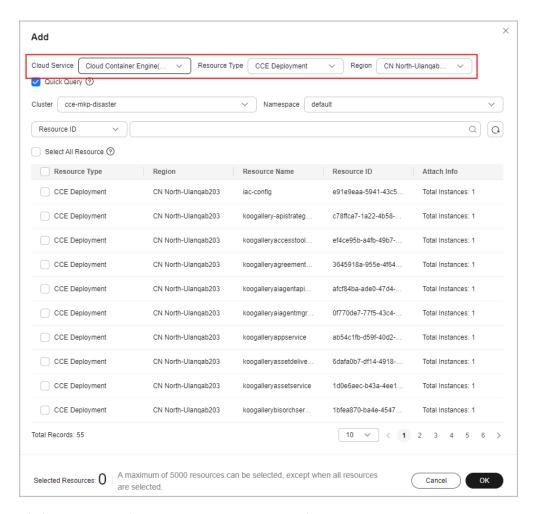


**Step 7** Click **Browse** above the drawing area to enable editing.

**Step 8** On the left, basic diagram elements and cloud service diagram elements required for drawing are provided. Drag a basic diagram element from the left element drawer to draw an architecture.

**Step 9** In the left navigation pane, choose **Deployment Architecture**. All created deployment architectures are displayed. You can directly drag one to the canvas for drawing.

**----End**

# 8 Using Resource Groups

You can group resources, such as ECSs, EVS disks, EIPs, bandwidth, and databases, for centralized management. This allows you to manage different resource types and identify capacity risks from a service perspective, improving O&M efficiency.

## Procedure

**Step 1**  Log in to the Huawei Cloud management console.

**Step 2**  In the upper left corner of the homepage, click  to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3**  In the navigation pane, choose **Resource Groups**.

**Step 4**  Click **Add**. Set the group name. Select the corresponding enterprise project and grouping rule if needed.

**Step 5**  On the **Selected Resources** page, click **Add**.

**Step 6**  After you select the cloud service, resource type, and region, the system displays the corresponding resource list. Select the target resources to be grouped and click **OK**.

**Step 7** Click **OK** again. The resource group is created.

**----End**

# 9 Using Capacity Optimization

Analyze your cloud resource usage to identify potential capacity risks, such as insufficient CPU, memory, or disk space.

## Procedure

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click  to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Capacity Optimization** > **Daily Risk Prediction**.

**Step 4** Click the **Custom Risk Analysis** or **Intelligent risk analysis** tab as needed for risk prediction.

**Table 9-1** Modes of daily risk prediction

| Mode | Description |
|---|---|
| Custom risk analysis | Risky instances are identified based on the input predicted peak value.<br>● Peak prediction: Predicted peak value = Historical peak value in the reference period x (1 + Pressure coefficient)<br>● Risky instance: If either the historical or predicted peak value exceeds the risk threshold, the instance is considered risky and included in the risk report. |
| Intelligent risk analysis | The future capacity trend is predicted based on the input and algorithms.<br>● Trend prediction: The capacity trend of the next seven days is predicted based on the capacity trend in the reference period (within the last one month) using the prediction algorithms.<br>● Risky instance: If the capacity during the reference or prediction period exceeds the risk threshold, the instance is considered risky and included in the risk report. |

**Step 5** Click **Risk Analysis** and complete related configuration.
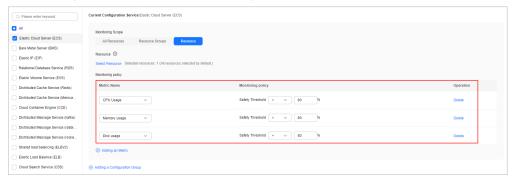


1. **Set batch parameters.**

   Set the reference period, prediction period, aggregation period, and trigger conditions.

   **Table 9-2** Batch parameters

   | Parameter | Description |
   |---|---|
   | Reference Time Period | The end time of the reference time range is the current time by default and cannot be changed. |
   | Forecast Period | The start time of the prediction time range is the current time by default and cannot be changed. |
   | In Aggregation Period | Aggregation refers to calculating the maximum, minimum, and average values from raw metric data collected over a defined period and summarizing the results. This calculation period is called an aggregation period. The system supports three aggregation periods: 1 hour, 4 hours, and 24 hours. |
   | Trigger Condition | Number of consecutive times a specified condition must be met before the resource is marked as risky. |

2. **Configure capacity thresholds.**

   In the navigation pane, select the cloud service for which risks need to be analyzed, and set the monitoring scope and monitoring policy. The monitoring metrics, policies, and safety thresholds need to be set as needed.

   

**Step 6** Click **Save and Analyze**. The risk analysis starts.

**----End**

# 10 Disabling OA

To disable OA, you can log in to the Huawei Cloud management console and go to the **Optimization Advisor** page.

📖 **NOTE**

- Once OA is disabled, historical check results and records cannot be recovered. Therefore, disable it with caution.
- You can re-enable OA later if needed.

## Procedure

**Step 1** Log in to the Huawei Cloud management console.

**Step 2** In the upper left corner of the homepage, click  to expand the service list and choose **Management & Governance** > **Optimization Advisor**.

**Step 3** In the navigation pane, choose **Permissions**.

**Step 4** Click **Disable** in the upper right corner.

**Step 5** Select **I have read and agree to the** *Optimization Advisor Service Statement* and click **OK**.

**----End**