



SANGFOR

Sangfor Managed Cloud Service

SkyOPS User Guide

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About This Document

This document describes the Operation and maintenances user guide of MCS.

Intended Audience

This document is intended for:

- tenant

Note Icons

English Icon	Description
	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation, which if not avoided, could result in minor or moderate injury.
	Indicates a hazardous situation, which if not avoided, could result in settings failing to take effect, equipment damage, or data loss. NOTICE addresses practices not related to personal injury.
	Calls attention to important information, best practices, and tips. NOTE addresses information not related to personal injury or equipment damage.

Change Log

Date	Change Description
Oct. 07, 2023	This is the first release of this document.

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SkyOPS

Monitoring: The MCS platform can detect anomalies and load on hosts and virtual machines. It also supports adding monitoring charts to track specific metrics of certain virtual machines and can display them in tabular form on the page.

Probe: Users can create probe tasks to perform real-time probe operations to ensure the services work. Once services become unavailable, users will receive alerts to take prompt action.

SkyOPS: Customers can connect to the Sangfor Cloud Service Center through a cloud agent and upload private cloud alerts to the Sangfor Cloud Service Center. In this way, customers using private cloud can experience cloud O&M services. O&M personnel can quickly view all private cloud alerts in SkyOPS to locate the problems.

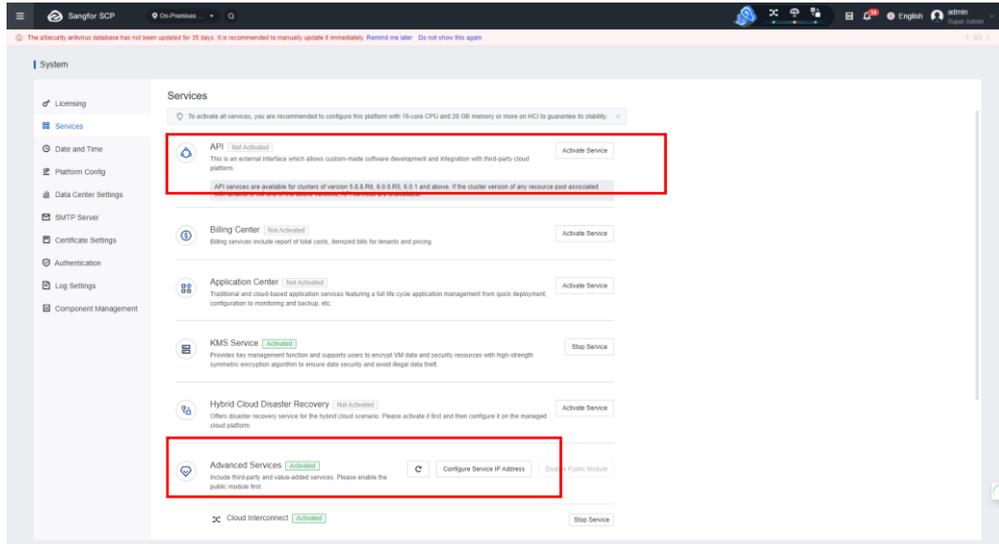
1.1 Private Cloud Resource Connected to Cloud Agent

1.1.1 Prerequisites

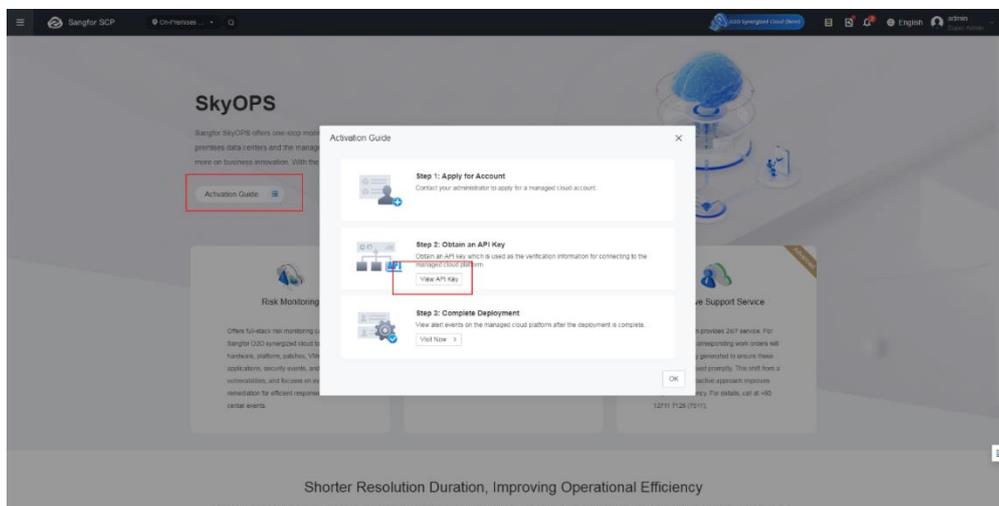
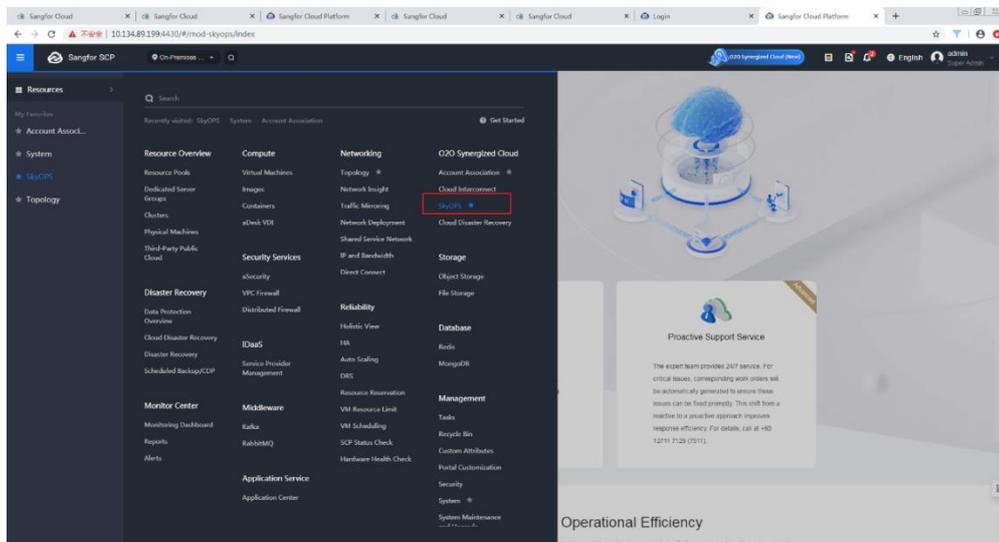
1. The local office has deployed the cloud agent virtual machine and can log in to configure it. A cloud agent is an agent probe deployed in a private cloud for on-premise and Managed Cloud data exchange.
2. The cloud agent, local SCP, and MCS are reachable.

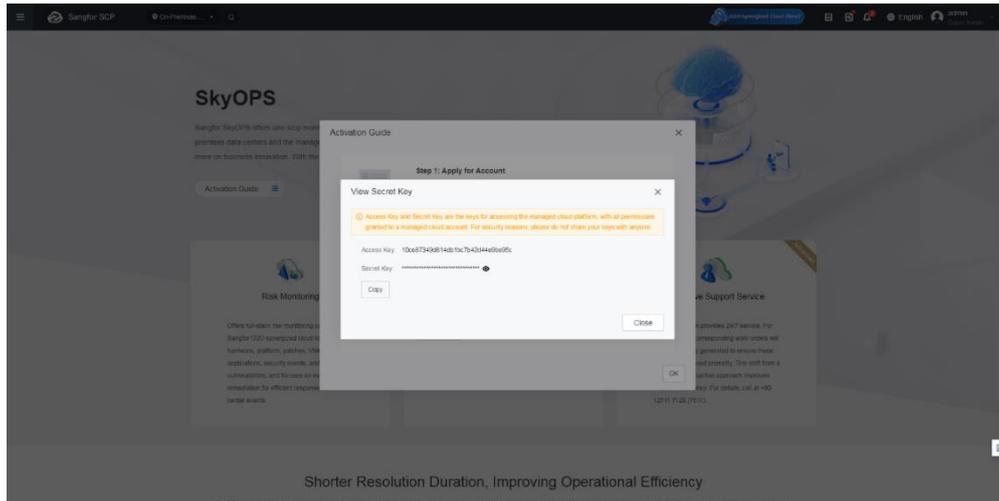
1.1.2 Private Cloud SCP connected to Cloud Agents

1. The private cloud SCP **API** and **Advanced Services** must be activated before connecting to cloud agents.

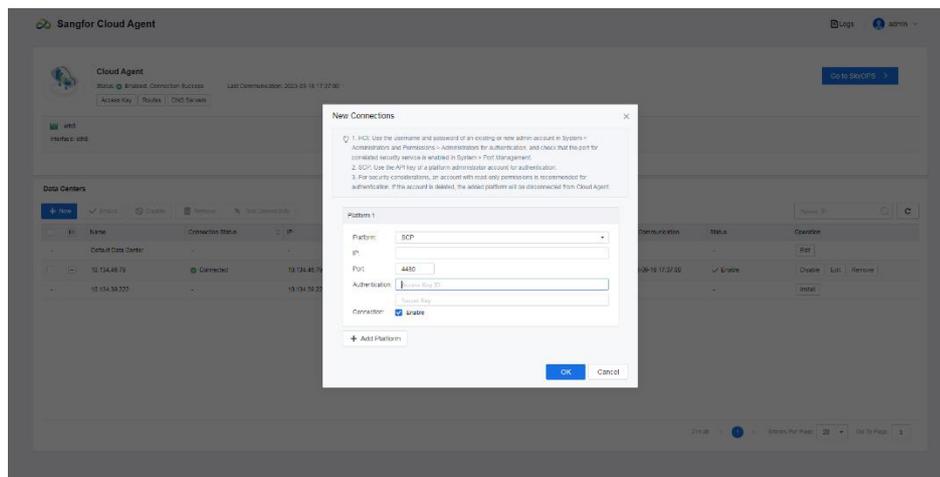


2. Obtain AKSK information in the SkyOPS.



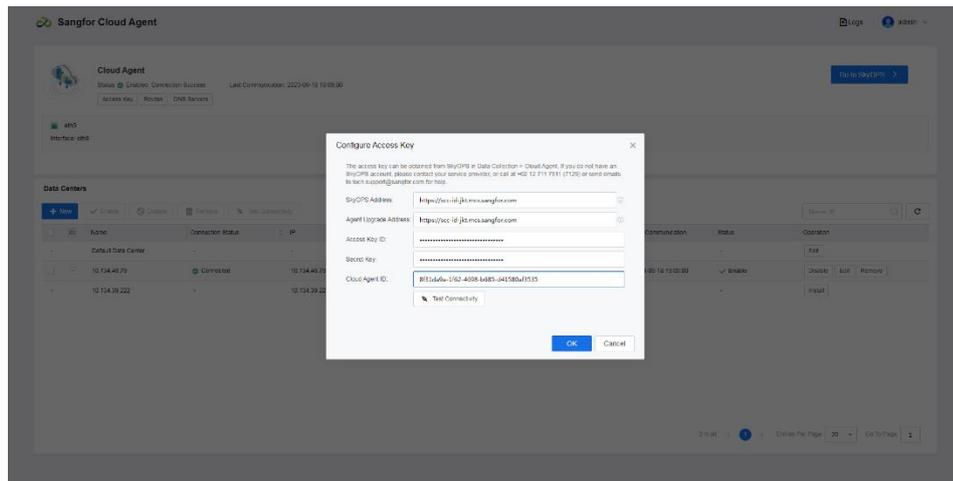
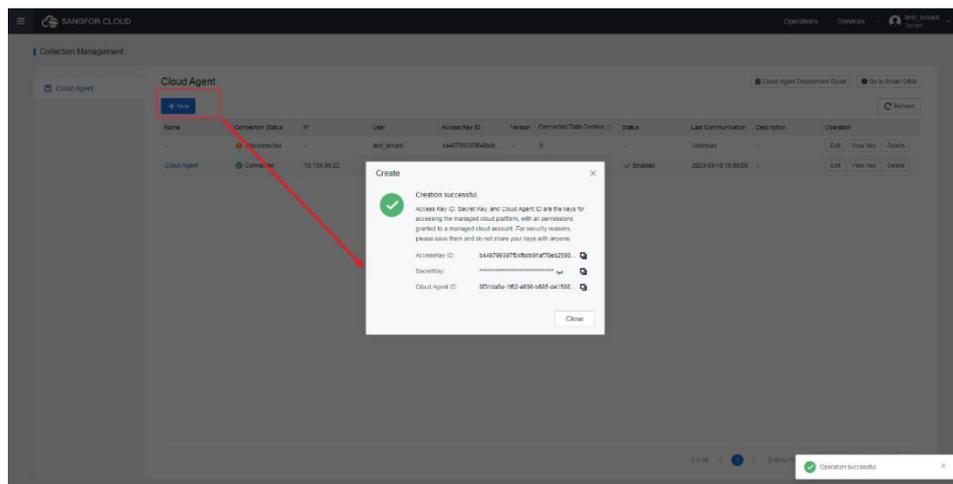
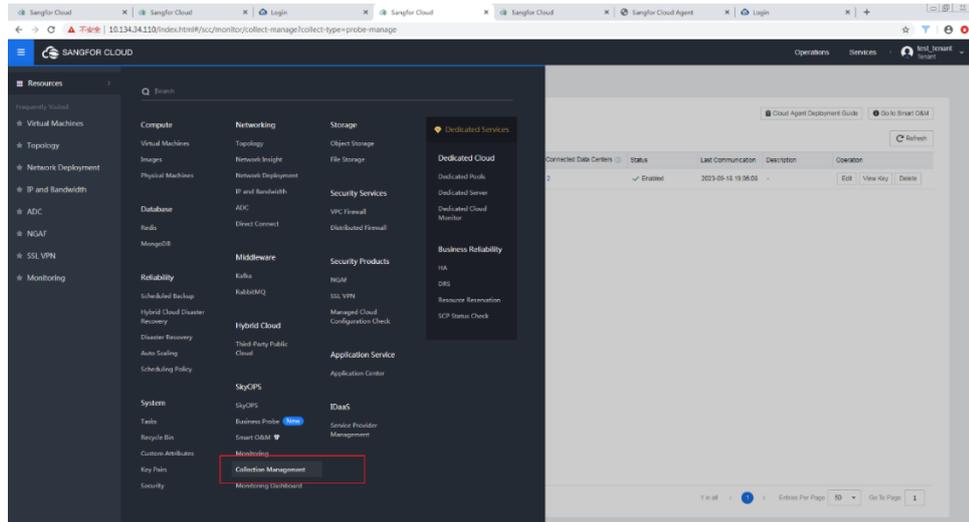


3. Connect the SCP to cloud agents.

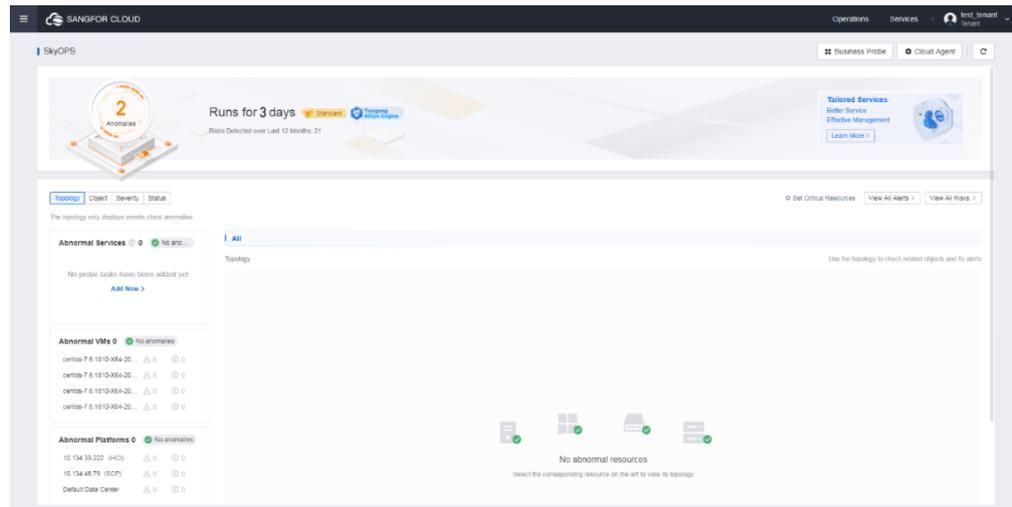


1.1.3 Cloud Agent Connected to MCS

1. Obtain cloud agent information from the managed cloud tenant, then input the Cloud Agent ID to connect to the Sangfor Cloud Service Center.



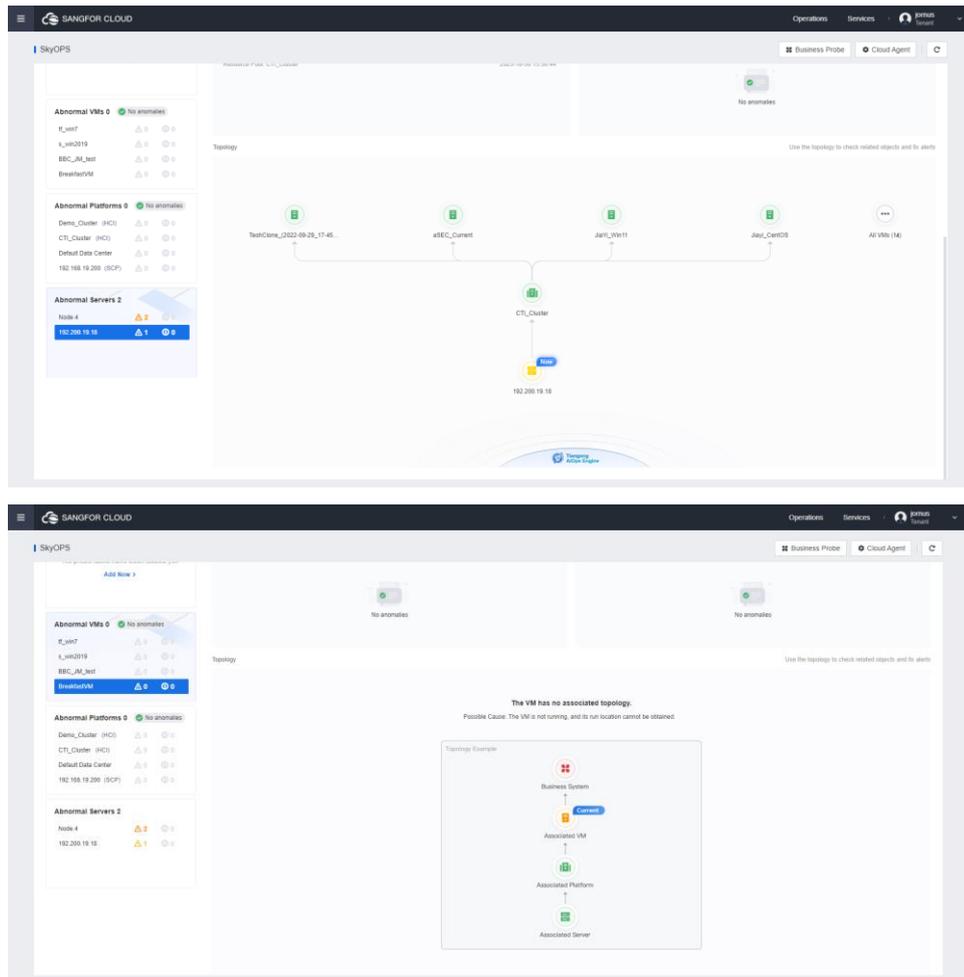
2. After successfully connecting, users will be directed to the SkyOPS page on their next login.



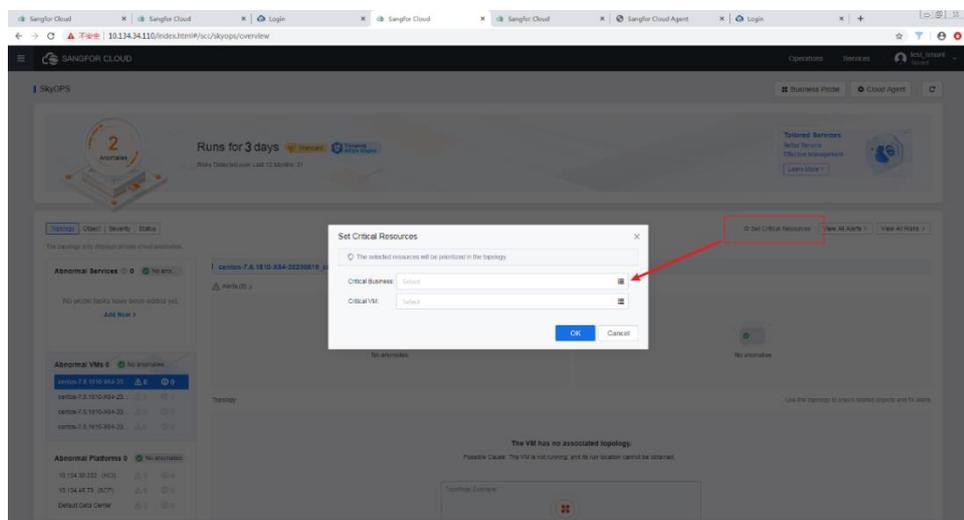
1.2 Viewing SkyOPS

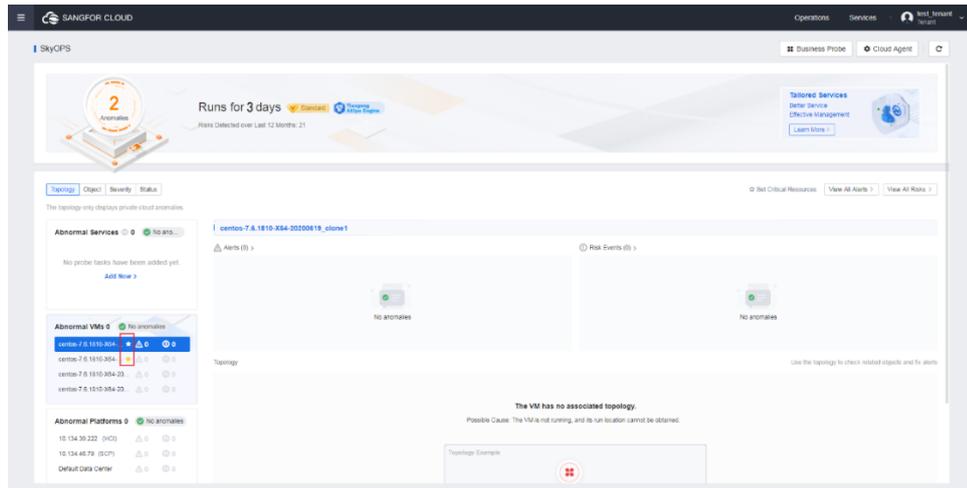
1.2.1 Viewing Private Cloud Resource Hierarchy

1. The tenant SkyOPS has a new feature: the business service topology map. It can display the hierarchy of resources under the cloud agent and the association of tenants' LAN probe tasks. **The topology will not display the node's topology if it has no association.**

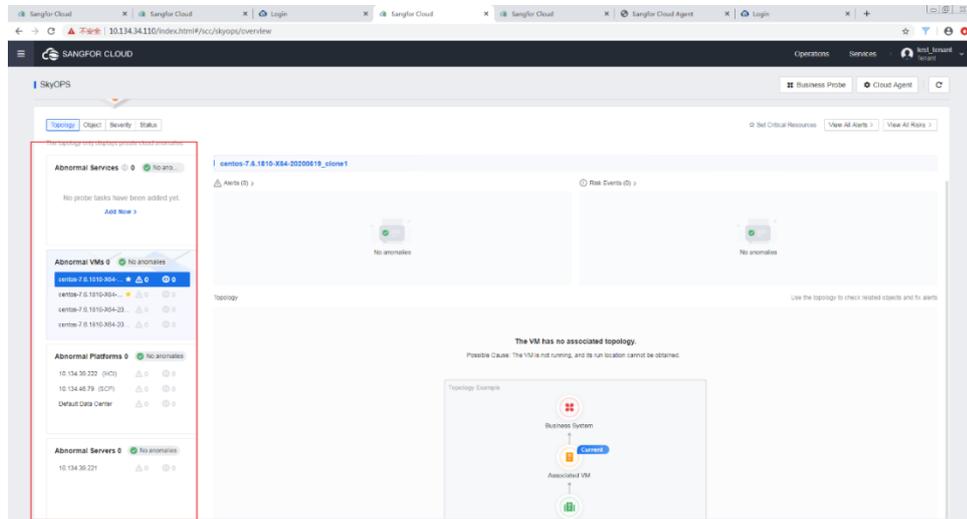


2. Tenants can set the **Critical business services, Databases, and VMs** to be prioritized in the topology in SkyOPS.

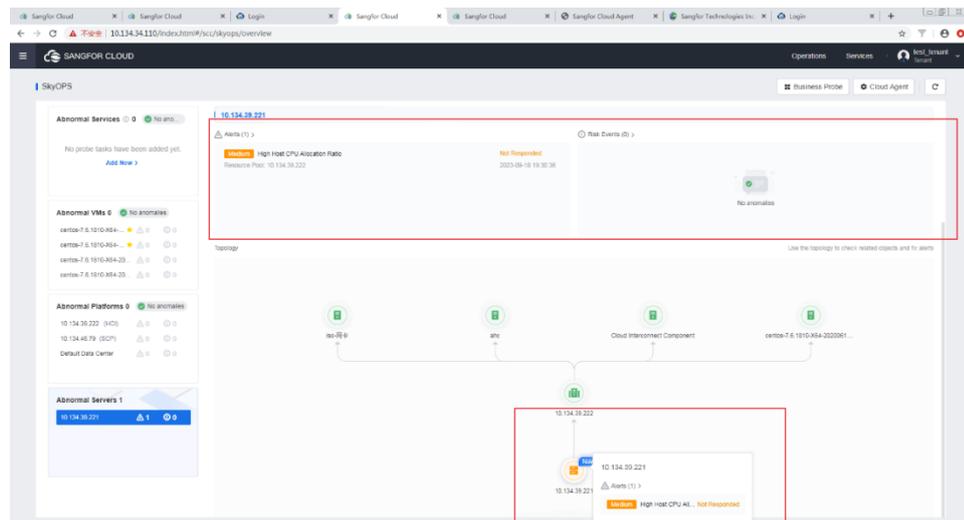




3. The tenant SkyOPS displays abnormal resources on the left. When no anomalies exist, four resource information items are shown by default. It will show all abnormal resources if there are any.

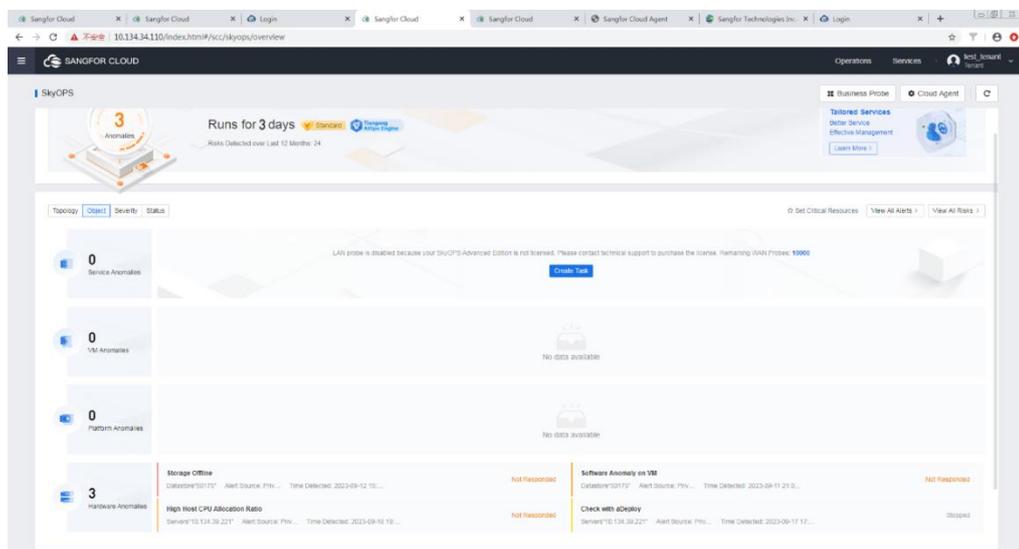


4. Tenants can view the 20 most recent alerts and risk events. The business service topology shows the three most recent alerts and risk events of associated resources.



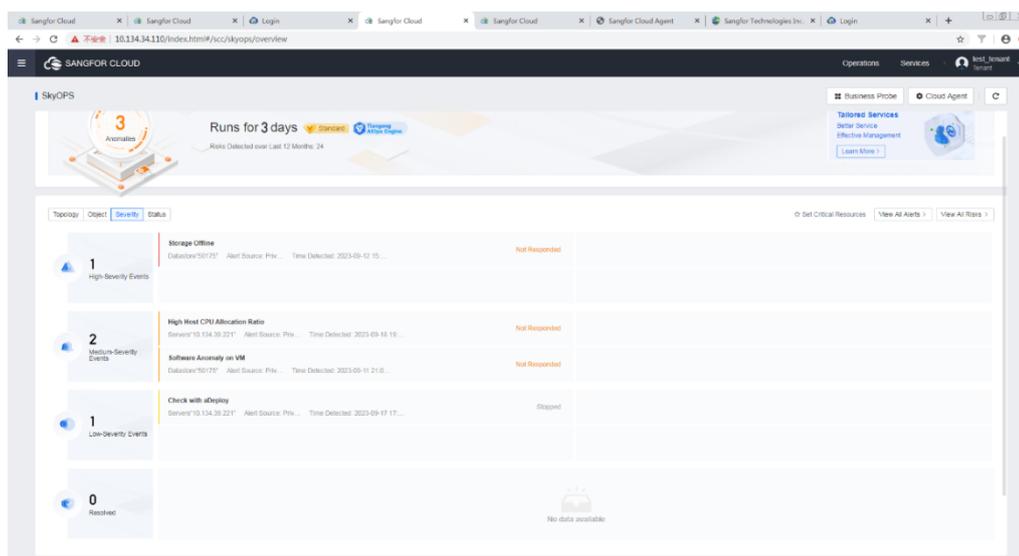
1.2.2 Viewing Private Cloud Alert Events by Object

In SkyOPS, tenants can view different alert events reported on the private cloud, including service anomalies, VM anomalies, platform anomalies, and hardware anomalies.



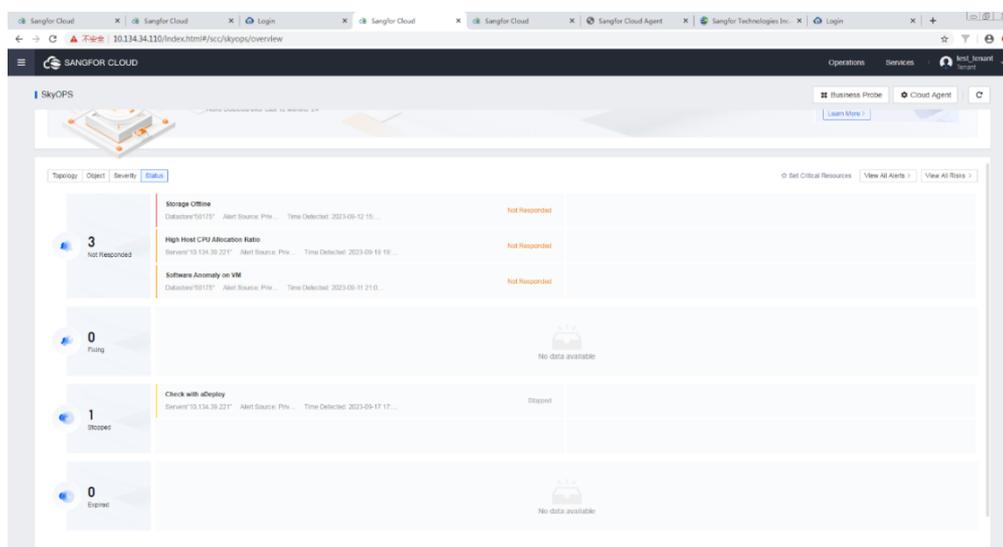
1.2.3 Viewing Private Cloud Alert Events by Severity

In SkyOPS, tenants can view alert events with different severities reported on the private cloud, including high-severity events, medium-severity events, low-severity events, and resolved events.



1.2.4 Viewing Private Cloud Alert Events by Status

In SkyOPS, tenants can view the status of alert events reported on the private cloud, including Not Responded, Fixing, Stopped, and Expired.



1.3 Business Probe

1.3.1 Introduction

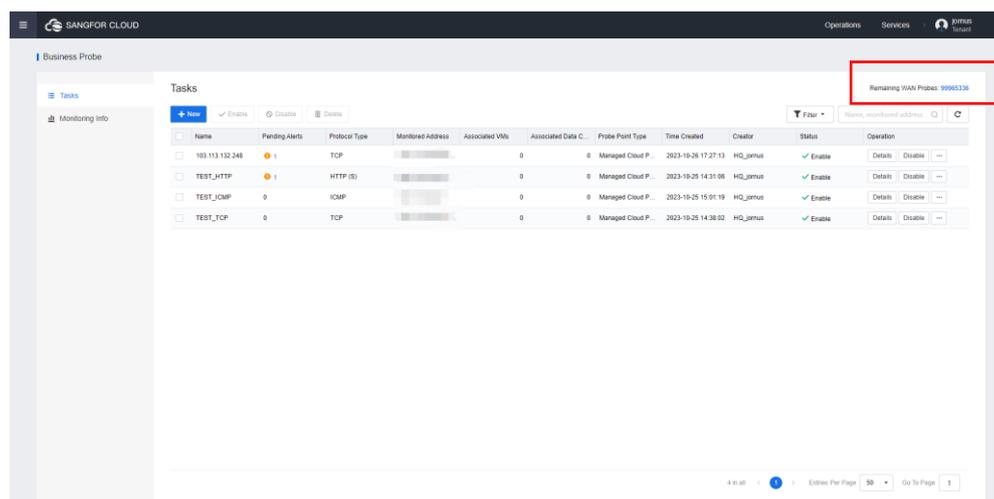
Create a business probe task to conduct a real-time probe of your business to ensure the service is available. When the service is unavailable, you can receive an alarm notification as soon as possible and handle it on time. We support business probes of MCS tenant services and private cloud tenant services.

In the MCS scenario, creating a business probe task can monitor the availability of public network services in real time, including the manage service cloud and private cloud, ensuring the business's operation. By regularly probing public network services, tenants can promptly detect service failures or abnormalities and repair them to avoid business interruption or impact on user experience. The business probe task can also help tenants understand the performance and stability of public network services and provide data support for service optimization and improvement.

1.3.2 Obtain Business Probe Service

1.3.2.1 MCS Tenant Obtain Business Probe Service

This function requires authorization from the administrator first. The tenant can create an MCS business probe task on the business probe page. The **Remaining WAN probe** in the top right corner shows the remaining authorization.

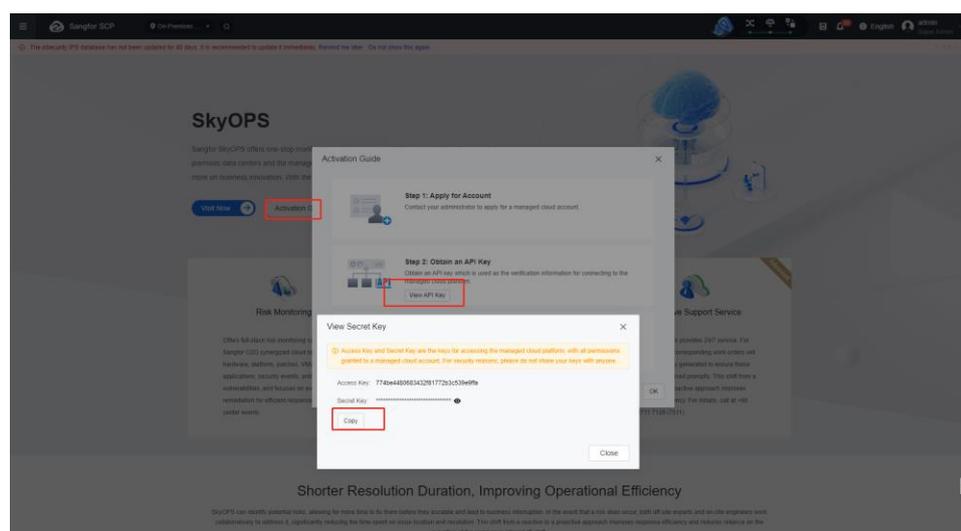


1.3.2.2 Private Cloud Tenant Obtain Business Probe Service

In the private cloud scenario, a virtual machine is deployed on the local SCP as a cloud agent, and one cloud agent is a probe point.

1. Administrator log in to SCP and navigate to **Resource > O2O Synergized Cloud > SkyOPS**.

2. Click **Activation Guide > View API Key** to obtain the **Access Key** and **Secret Key**.



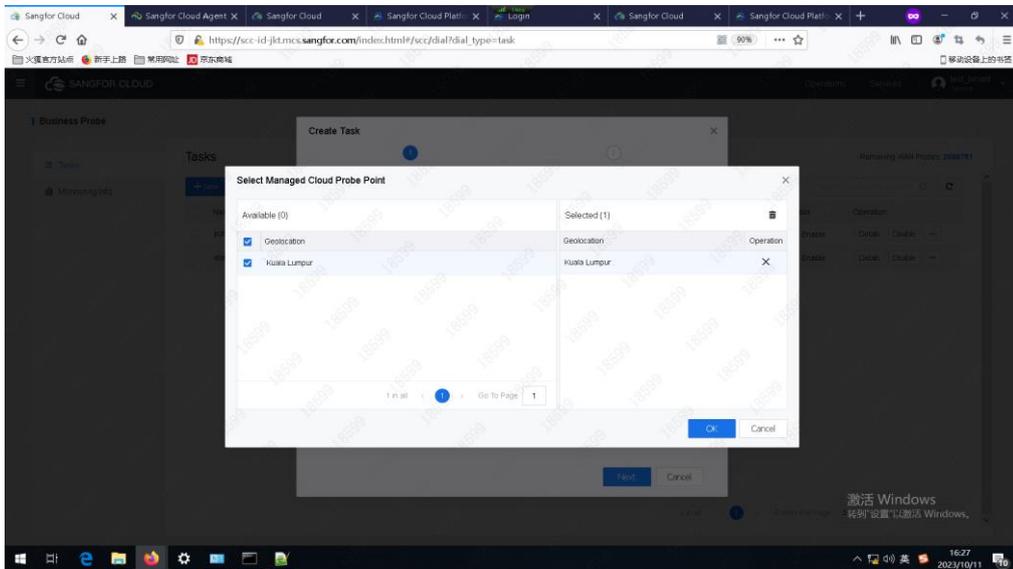
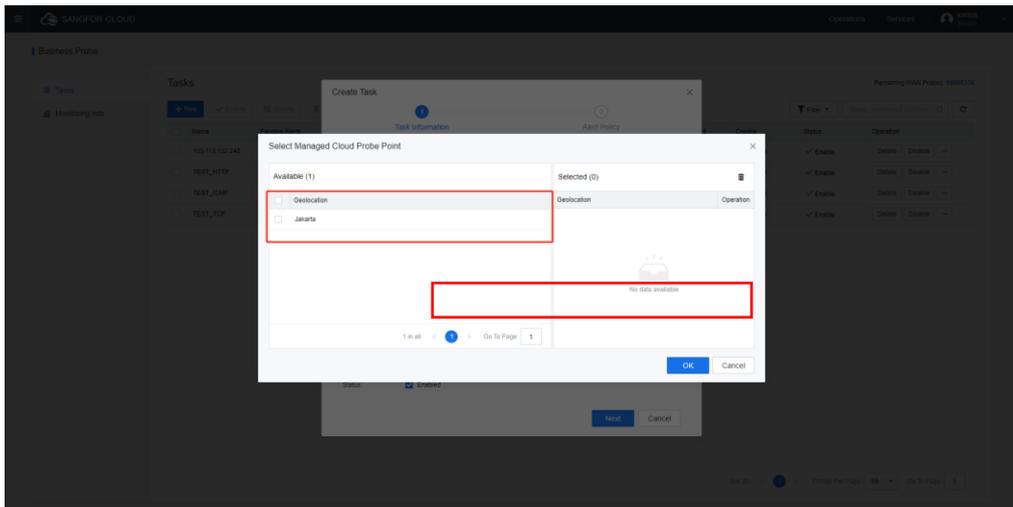
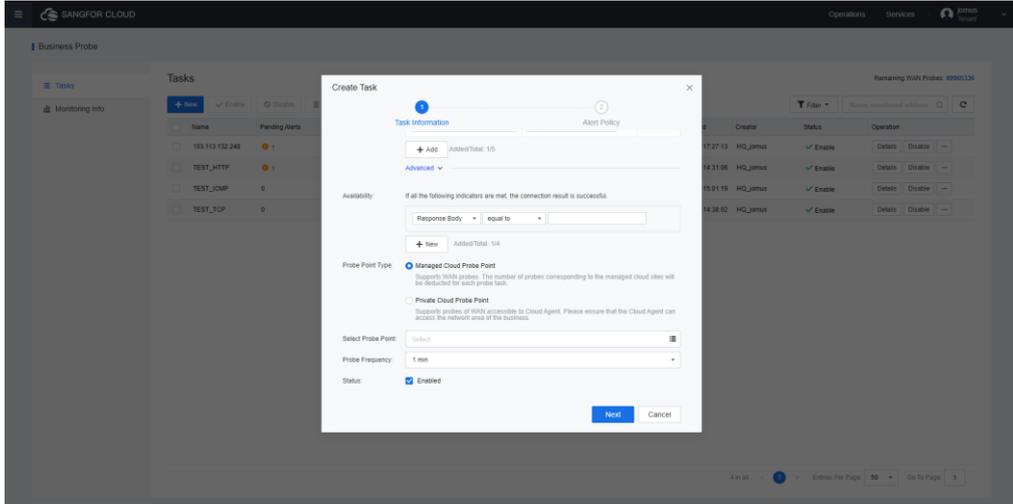
3. Provide the obtained keys to the MCS team, and they will connect the SCP of the private cloud to MCS. After successfully connecting, **Visit Now** will appear on this page, and you can start using the business probe function.

1.3.3 Probe Point Configuration

Private cloud, managed cloud, and hybrid cloud tenants can regularly run probes on WAN or LAN services for real-time monitoring, ensuring task feasibility.

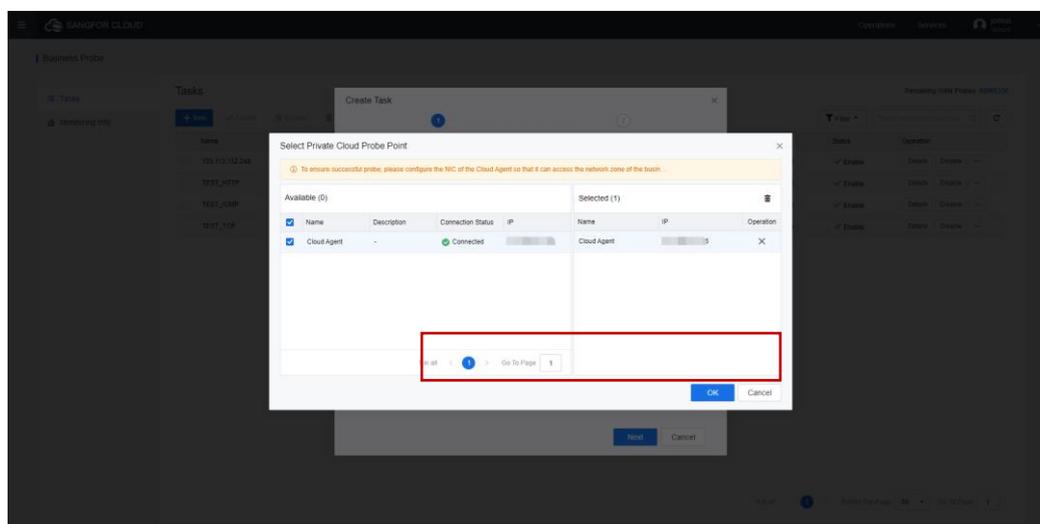
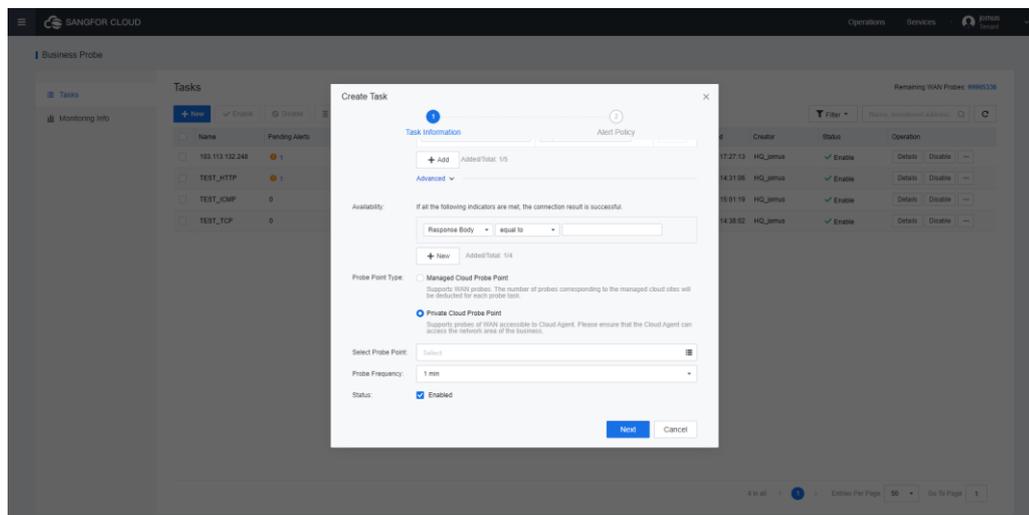
1.3.3.1 Managed Cloud Probe Point

Please contact the Managed Cloud team for deployment for the Managed Cloud Probe Point. Under normal circumstances, it has already been deployed. As shown in the figure below:



1.3.3.2 Private Cloud Probe Point

Please contact the local office to assist with deployment. One cloud agent is a probe point, as shown in the figure below.

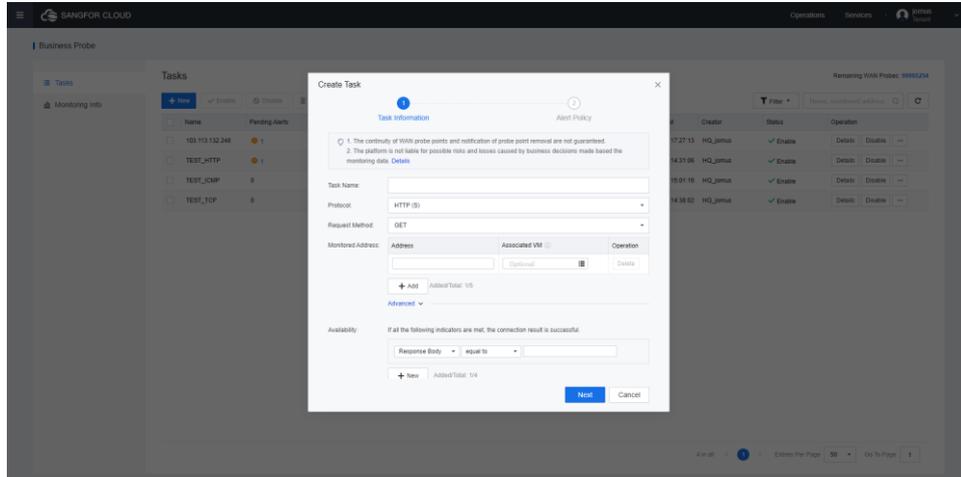


1.3.4 Creating Probe Task

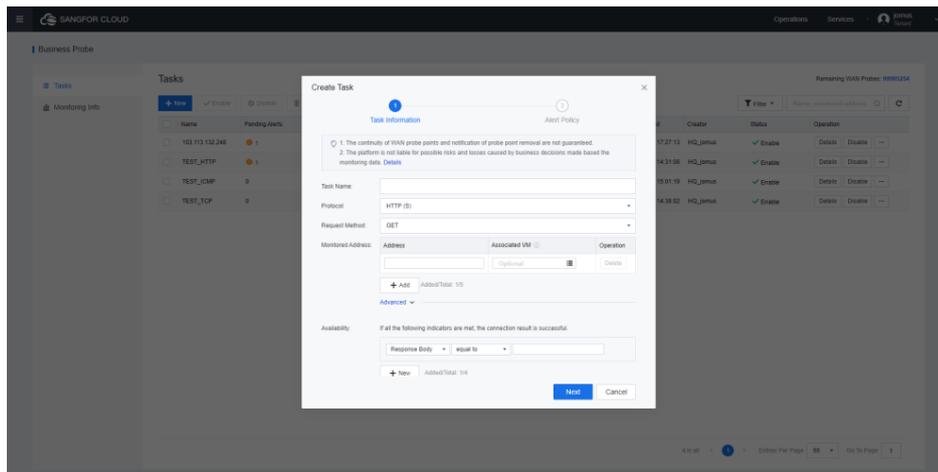
Tenants can create probe tasks to monitor the availability of WAN services in real-time, ensuring the operation of services. By running probes on WAN services regularly, the tenants can detect service faults or anomalies promptly and adopt remedial measures to prevent service interruptions or a negative impact on user experience.

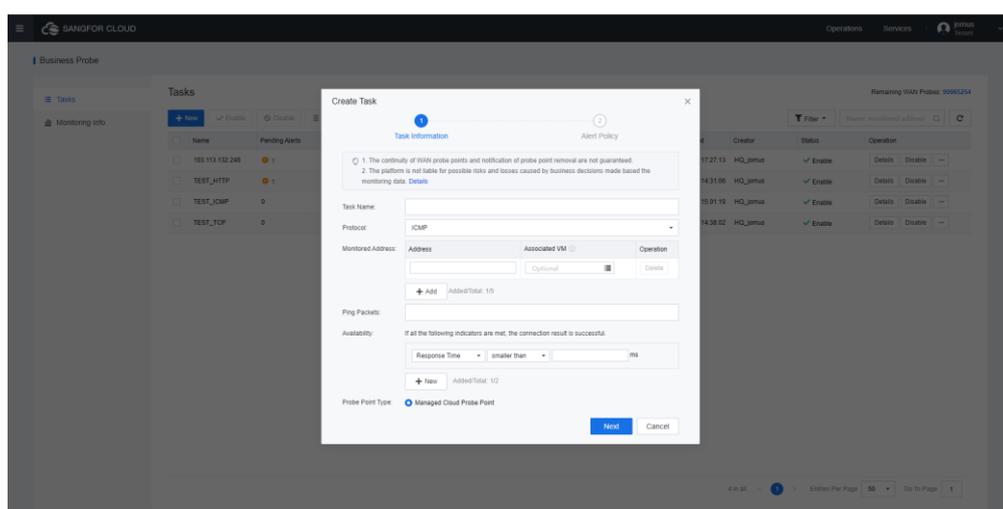
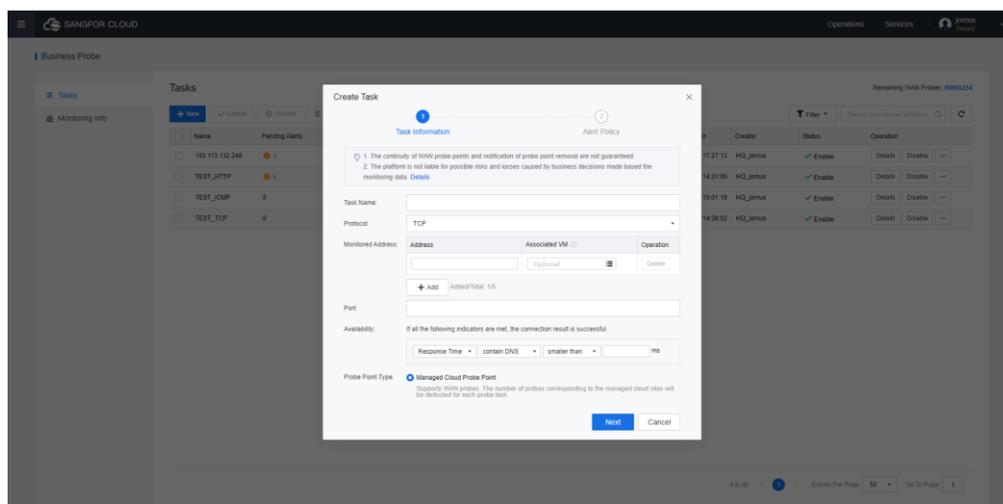
1.3.4.1 Task Information

1. Navigate to **SkyOPS > Business Probe > Tasks** to create a probe task.
2. Click **New**, and **Availability** indicators are available in the drop-down list.



3. Indicators for HTTP probe tasks: **Response Time**, **Status Code**, **Response Header**, and **Response Body**. Indicators for TCP probe tasks: **Response Time**. Indicators for ICMP probe tasks: **Packet Loss Rate** and **Response Time**.



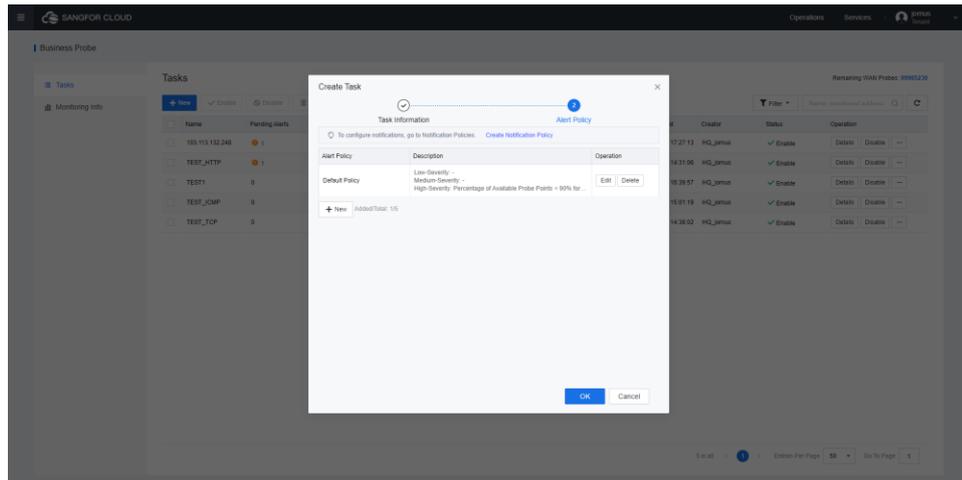


4. Select the indicators and specify the condition and value.
5. The combination of indicators is not restricted by default.
6. Four indicators can be added at most. At least one indicator is required.
7. For HTTP probe tasks, click **Advanced** to configure **Request**, **Request Body**, **Certificate**, **Proxy**, and **Privacy**.

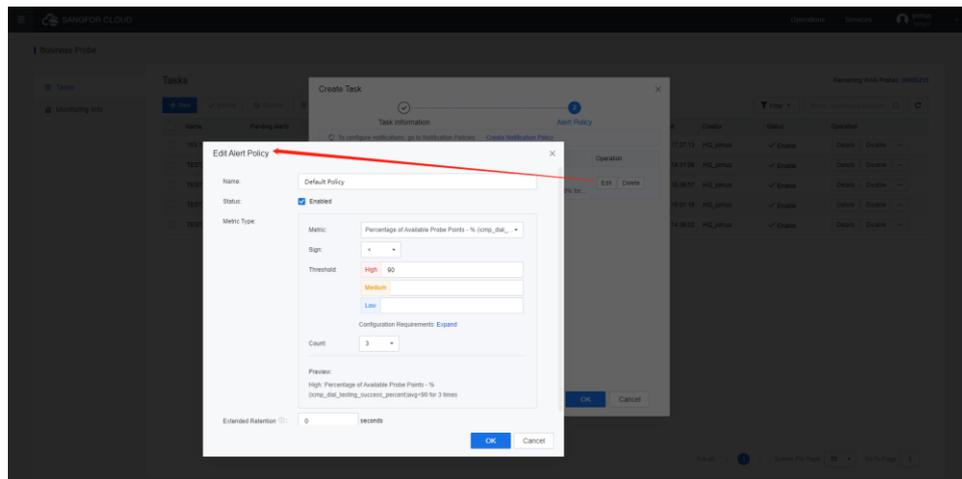
1.3.4.2 Creating Alert Policies for Business Probe

Tenants can create alert policies for business probes to promptly respond to service faults or anomalies, thus ensuring the operation of services. Alerts or notifications will be triggered automatically in case of service faults or anomalies to inform related personnel to take immediate action. It can significantly shorten fault response time and reduce the risk of service interruptions or impact on user experience.

1. After the probe task has been created, click **Next** to set the alert policy.



2. A default policy is provided; the **Metric** is **Percentage of Available Probe Points**.
3. Select the required metric from the drop-down list. Available metrics include **Percentage of Available Probe Points**, **Available Probe Points**, **Unavailable Probe Points**, **Round-Trip Time**, and **Packet Loss Rate**. The table below describes these metrics in detail.



Metric	Sign	Threshold	Extended	Probe Task Type
--------	------	-----------	----------	-----------------

			Retention	
Percentage of Available Probe Points	=, <, >, ≥, ≤, ≠	Low: x, for consecutive x counts Medium: x, for consecutive x counts High: x, for consecutive x counts Percentage Count: 1, 2, 3, 4, 5, 10, 15, 20	Same as that for probe tasks	HTTP, TCP, ICMP
Available Probe Points	Same as above	Same as above	Same as above	HTTP, TCP, ICMP
Unavailable Probe Points	Same as above	Same as above	Same as above	HTTP, TCP, ICMP
Response Time	Same as above	Low: x, for consecutive x counts Medium: x, for consecutive x counts High: x, for consecutive x counts ms Count: 1, 2, 3, 4, 5, 10, 15, 20	Same as above	HTTP, TCP
Round-Trip Time	Same as above	Low: x, for consecutive x counts Medium: x, for consecutive x counts High: x, for consecutive x counts ms Count: 1, 2, 3, 4, 5, 10, 15, 20	Same as above	ICMP

Packet Loss Rate	Same as above	Low: x, for consecutive x counts Medium: x, for consecutive x counts High: x, for consecutive x counts Percentage Count: 1, 2, 3, 4, 5, 10, 15, 20	Same as above	ICMP
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4. A maximum of five alert policies can be set.

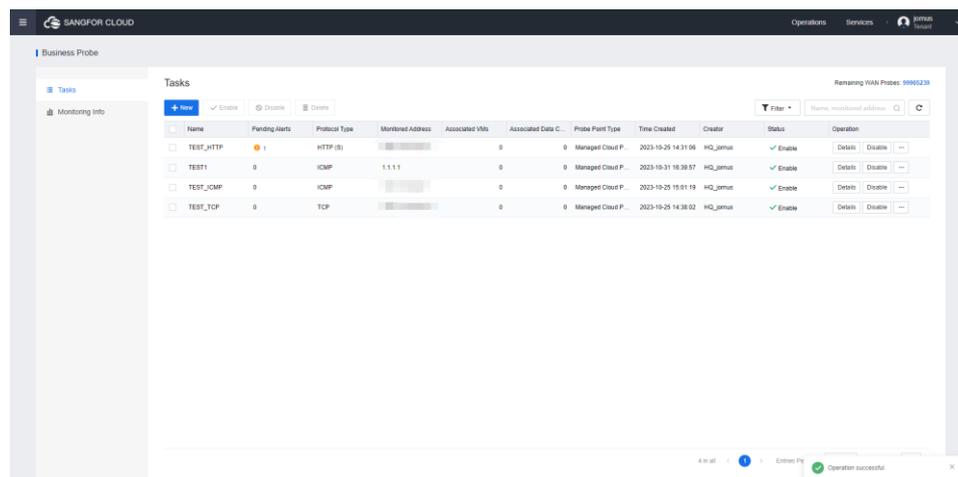
1.3.5 Viewing Business Probe Tasks

1.3.5.1 View Business Probe Tasks List

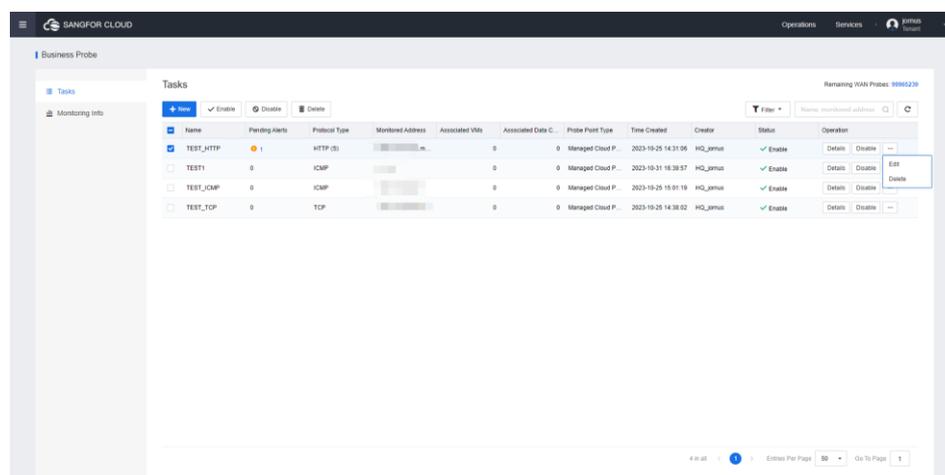
Tenants can view the business probe task list to understand the status and results of all tasks. It allows the service faults or anomalies to be detected on time, and prompt remedial measures could be taken to ensure the operation of services. By reviewing the business probe task list, information such as probe time and results for each task can be obtained to assess whether the service is operating. Suppose any anomalies or failures occur in the business probe tasks. In that case, prompt remedial measures can be taken to prevent service interruptions or impact on user experience.

1.3.5.1.1 General Scenario

1. Tenants log in to the MCS portal and navigate to **Resource > SkyOPS > Business Probe**.

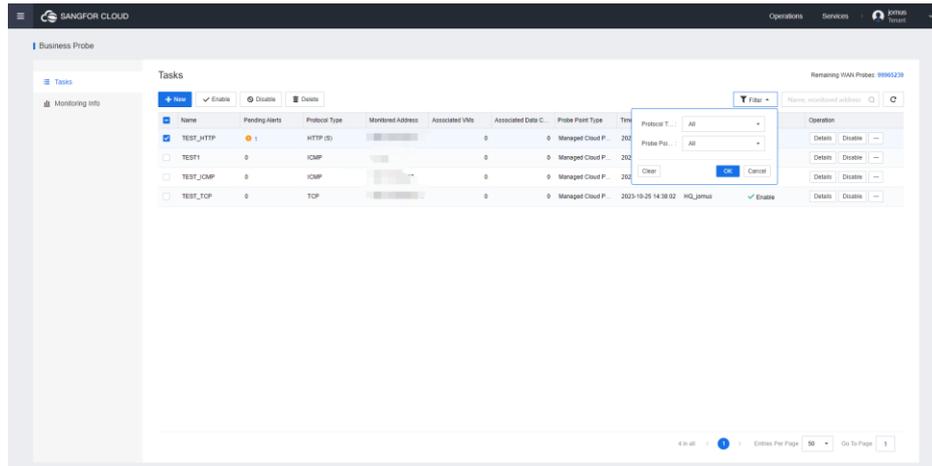


2. Tenants can view the business probe task list: name, pending alerts, protocol type, monitored address, probe point type, availability, last response time, status, time created, creator, operations (details, edit, disable/enable, delete).

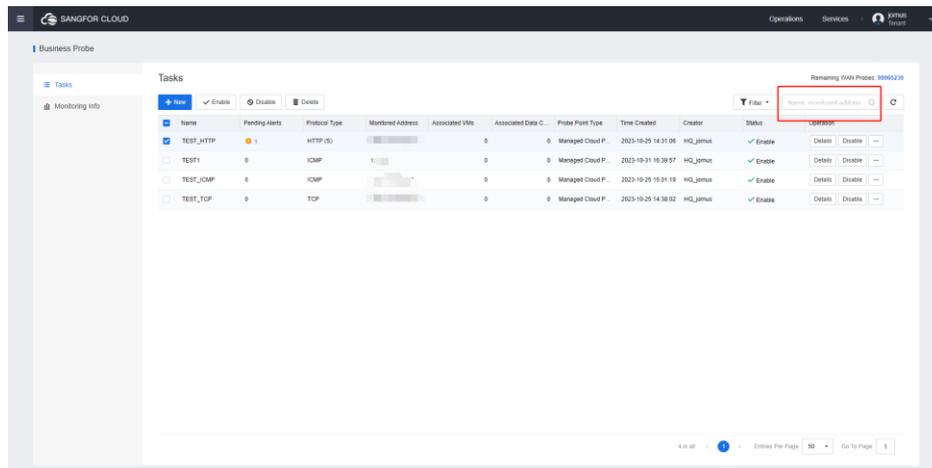


3. Filter the task list by:
 - Protocol type: HTTP(S), TCP, ICMP

- Probe point type: managed cloud, private cloud

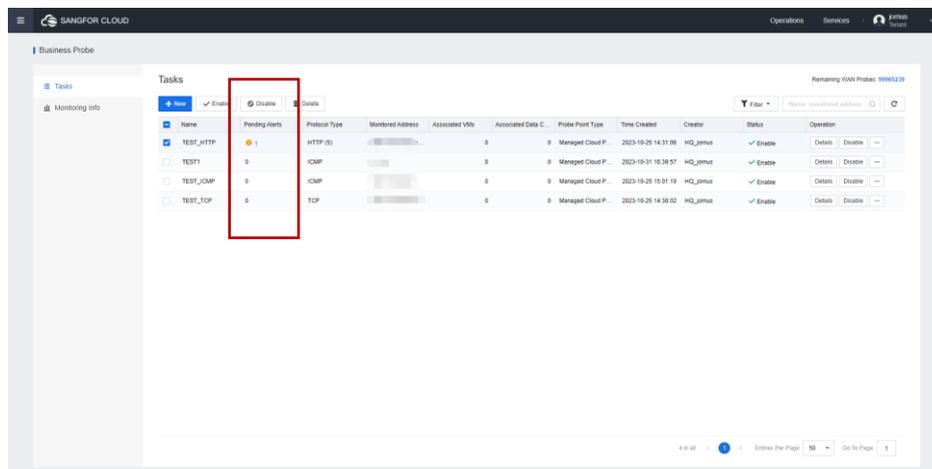


- A fuzzy search by name or monitored address is supported.



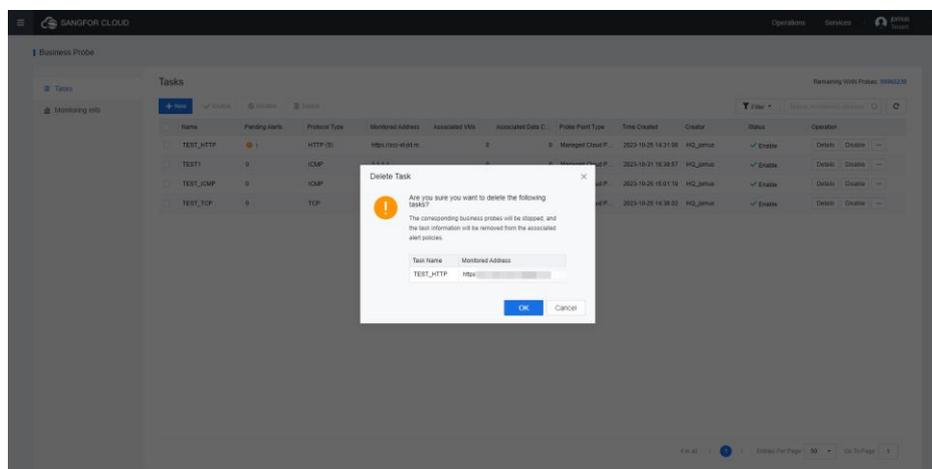
- You can refresh the list.

- Pending alerts** are sorted by alert count from high to low by default.

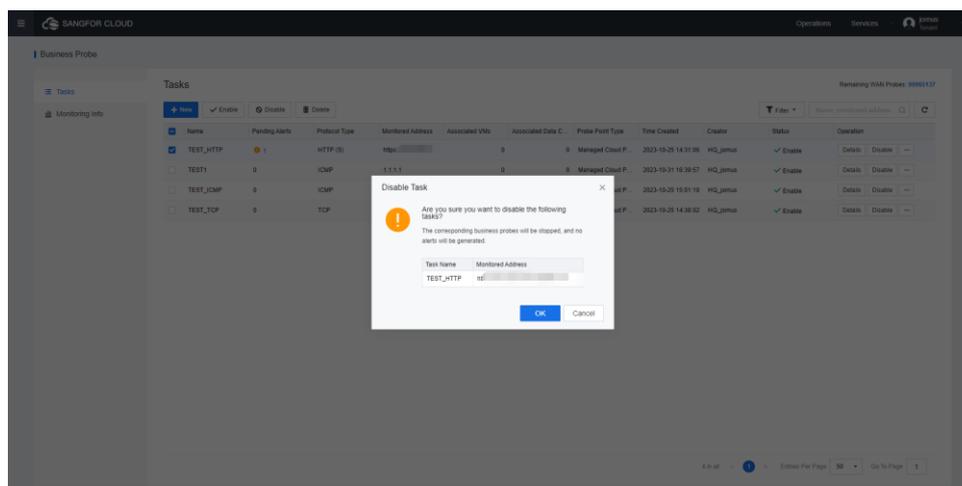


- The tenant user can delete tasks individually or in bulk. The Delete Task confirmation message will prompt: **Are you sure you want to delete the**

following tasks? The corresponding address will no longer be monitored, and task information will be removed from the associated alert policies. After deletion, the list will refresh, and the deleted tasks will no longer exist. The task information will be removed from the associated alert policies.



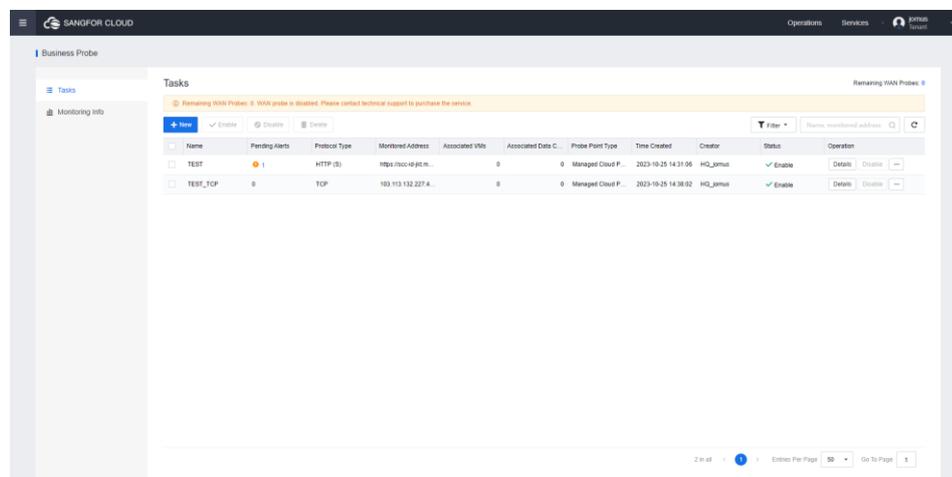
- The tenant user can disable tasks individually or in bulk. The Disable Task with the confirmation message will prompt: **Are you sure you want to disable the following tasks?** The corresponding address will no longer be monitored, and no alerts will be generated. After disabled, the task's status in the list will change to **Disable**.



1.3.5.1.2 Tenant WAN Probes Limit Reached

- The customer has a Sangfor Cloud Service Center tenant user account. If the user's WAN probes have reached the limit, log in to the MCS portal and go to **SkyOPS > Business Probe**.

- In the task list, a message above the table shows **Remaining WAN Probes: 0. WAN probe is disabled. Please contact technical support to purchase the service.** The WAN probe's function has been automatically disabled. Please contact the administrator for renewal. Related operations on the page are greyed out and disabled. You can only view the details of created tasks and choose to delete them.



1.3.5.1.3 Private Cloud Customer Software Upgrade Service Expired

- The customer has an MCS tenant user account. If the software upgrade service has expired, log in to the MCS and go to **SkyOPS > Business Probe**.
- Tenants can view business probe task details. In the task list, a message above the table reads **Remaining WAN Probes: 0. WAN probe is disabled. Please contact technical support to purchase the service.** Related operations on the list page are greyed out and disabled. You can only view the details of created tasks and choose to delete them.

1.3.5.2 Viewing Business Probe Task Details

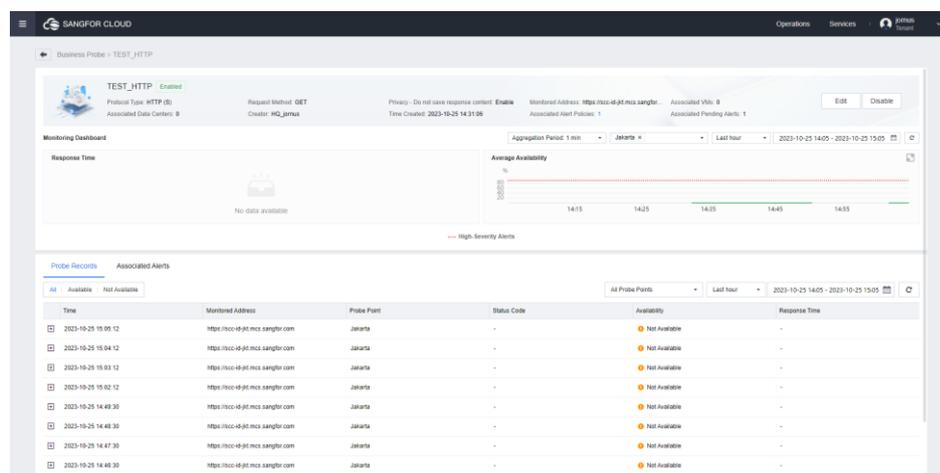
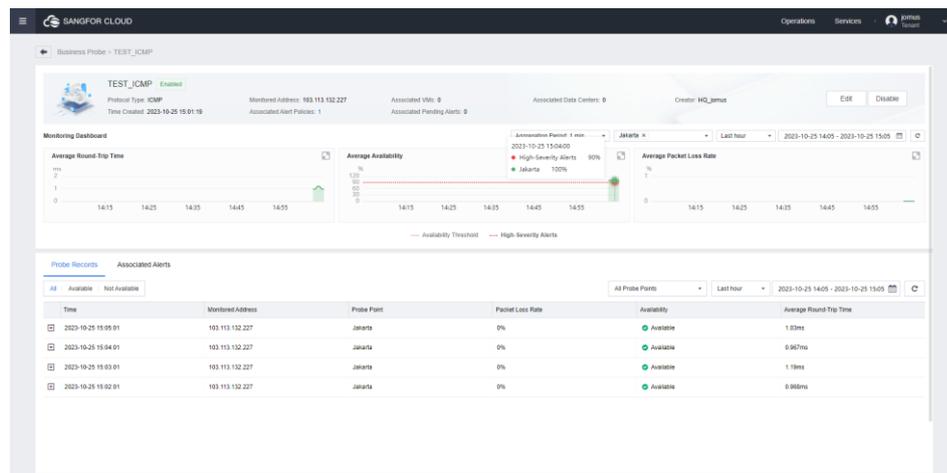
Tenants can view the details of a business probe task to verify task execution progress and whether the service is running. By viewing the details, the tenant can obtain specific execution information on each task, including the probe operation time and result, as well as records and trend charts. Suppose any anomalies or failures occur in a business probe task. In that case, view task details to identify the cause of the fault and remediate promptly to prevent service interruptions or impact on user experience.

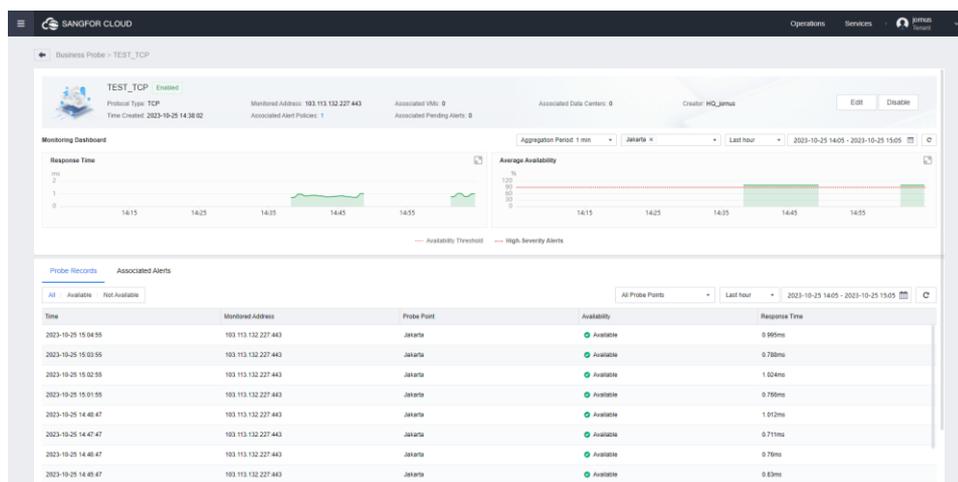
The customer has a MCS user account. Log in to the MCS and go to **SkyOPS > Business Probe**. A task named Task 1 already exists. When the tenant user views the details of Task1, the following information is displayed by default on the page::

1. Basic information: name, protocol type, monitored address, time created, creator, associated alert policies, status, and associated pending alerts.
2. **Response Time** trend chart, **Average Availability** trend chart, and probe records of **Not Available**.
3. Hover the mouse over the number of the **Associated Alert Policies** to view the name of the associated alert policies.
4. Above the trend charts, the tenants can select the Aggregation Period (The aggregation period selection options are the same as the probe frequency; the aggregation period value must be greater than the probe frequency value.) and Time Range. The default time range is Last Hour. Other options include last hour, last 6 hours, last 12 hours, last day, last 7 days, and custom range (not exceeding 7 days).
5. Above the probe records table, the tenant can select probe points (All Probe Points by default) and Time Range. The default time range is the Last Hour. Other options include last hour, last 6 hours, last 12 hours, last day, last 7 days, and custom range (not exceeding 7 days). The table shows 50 probe records by default. Click Show More to show additional records. The table information includes time, monitored address, probe point, availability, and response time.
6. Tenants can select **Last Hour** for the time range, select **Not Available** on the **Probe Records** tab, and then click the + next to a probe record to view the detailed information.
7. The detailed information includes DNS time, SSL authentication time, data download time, first packet receiving time, TCP connection time, and information on the response header and body.
8. The HTTP probe task response header, response body, and error information exceeding 15 MB will be truncated.
9. For HTTP probe tasks, detailed response information is shown when the

tenant has selected **Do not save response content**. Otherwise, detailed response information will not be displayed upon expansion.

10. Tenants can check associated alerts on the **Associated Alerts** tab.
11. Alerts generated in the last 7 days are displayed by default. The administrator can also choose to display alerts generated in the last 1 hour, last 6 hours, last 24 hours, last 2 days, or last 30 days. The alert status can be **Not Responded** or **In Progress**. The table displays severity, occurrence time, object type, object name, description, status, and operations. In the table, alerts are displayed first by severity in the order of High > Medium > Low and then by status in the order of Not Responded > In Progress > Expired > Stopped.

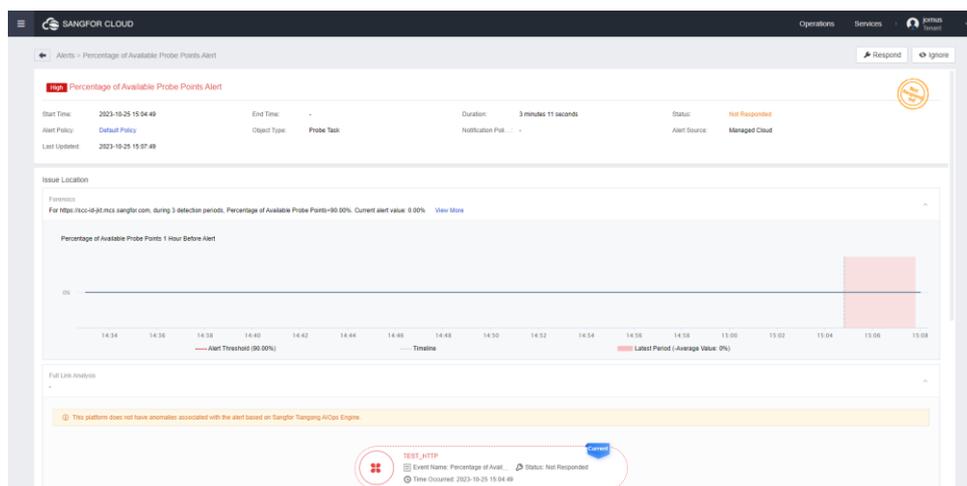




1.3.5.3 Viewing Associated Business Probe Task Alerts

Tenants can view the associated alerts of a business probe task to respond to faults or anomalies promptly, ensuring service operation. By checking the associated alerts, tenants can better understand the alert policies for a task and obtain information such as alert severity and method. If a business probe task encounters anomalies or failures, the associated alert policies will trigger alerts automatically, notifying relevant personnel to remediate. It can significantly shorten fault response time and reduce the risk of service interruptions or impact on user experience.

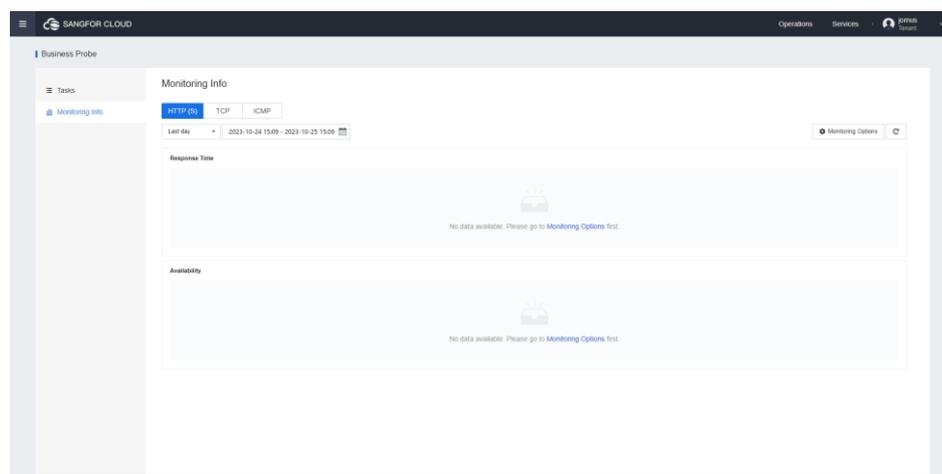
1. The customer has an MCS tenant user account and an existing business probe task with a monitored address **url1** that triggered an alert.
2. The tenant user can go to **SkyOPS > Smart O&M > Alert Events** to view the alert.
3. The tenant user views the details of the alert:



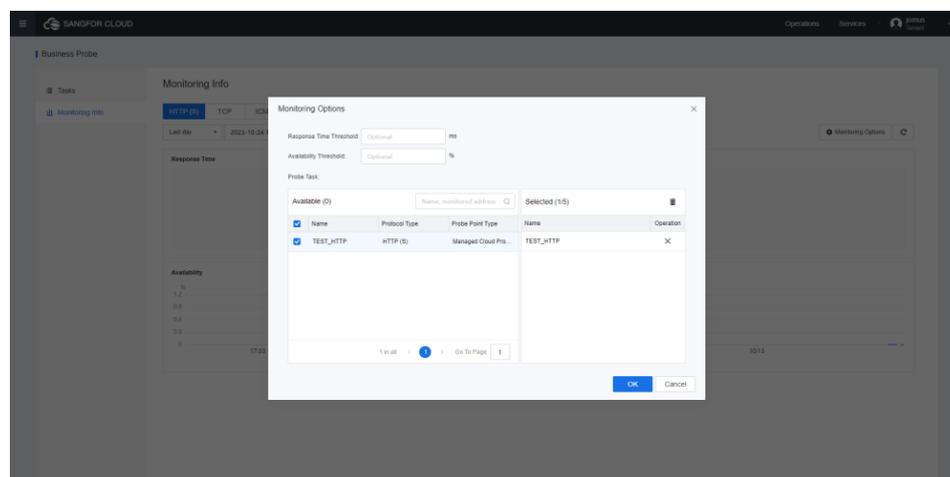
1.3.5.4 Creating Monitoring Dashboard

The main purpose of creating a monitoring dashboard for probe tasks is to monitor the availability of WAN services in real-time to ensure the operation of services. By creating a dashboard, the states and results of multiple probe tasks can be displayed on one page, quickly understanding how services operate. Tenants can view the execution status of business probe tasks in real-time through the monitoring dashboard. If anomalies or failures are detected, prompt remedial measures can be taken to prevent service interruptions or impact on user experience.

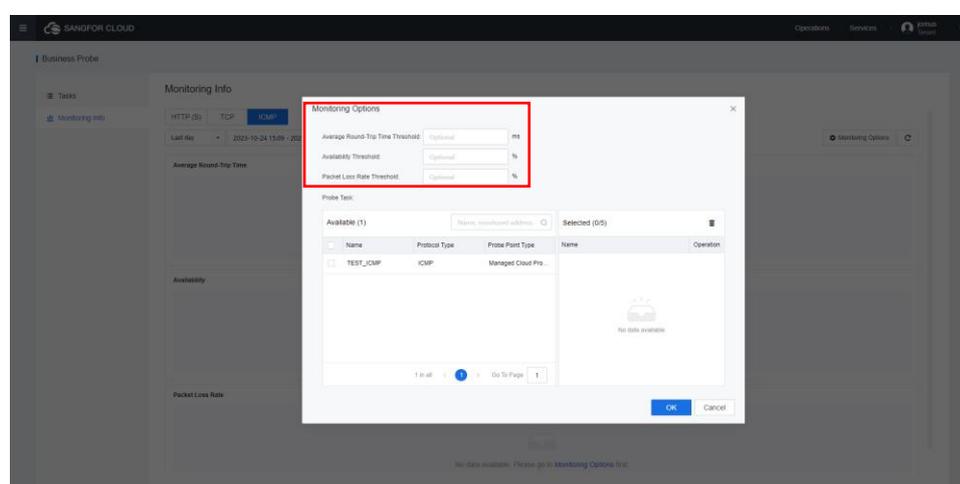
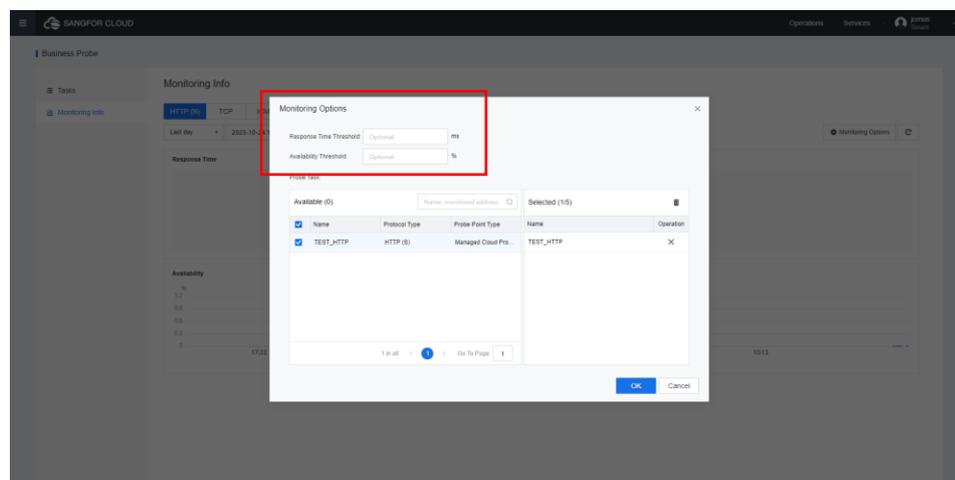
1. Navigate to **SkyOPS > Business Probe > Monitoring Info**. HTTP(s), TCP, and ICMP monitoring info are supported.



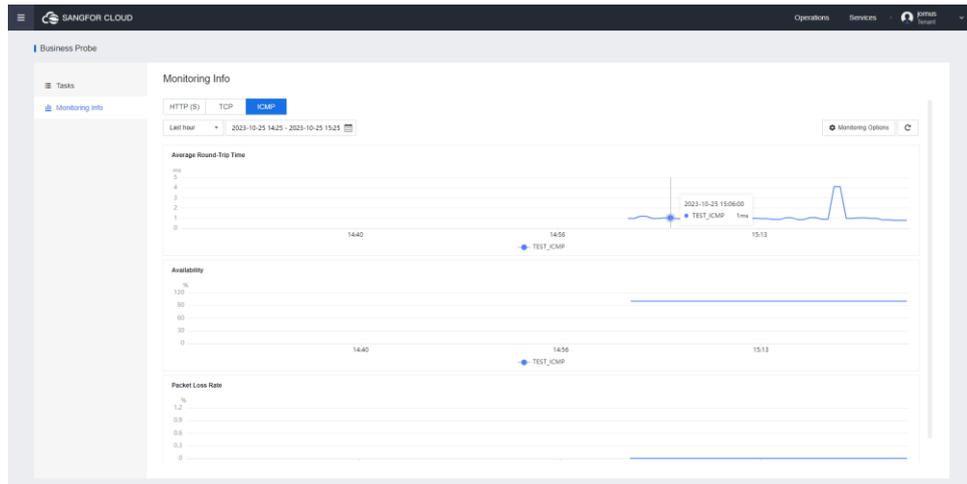
2. Click **Monitoring Options** to go to the monitoring options page. A maximum of five probe tasks can be selected.



- The **Response Time Threshold** and **Availability Thresholds** can be set on the monitoring dashboards for HTTP and TCP probe tasks. The average round-trip time, availability, and packet loss rate thresholds can be set on the monitoring dashboard for ICMP probe tasks.

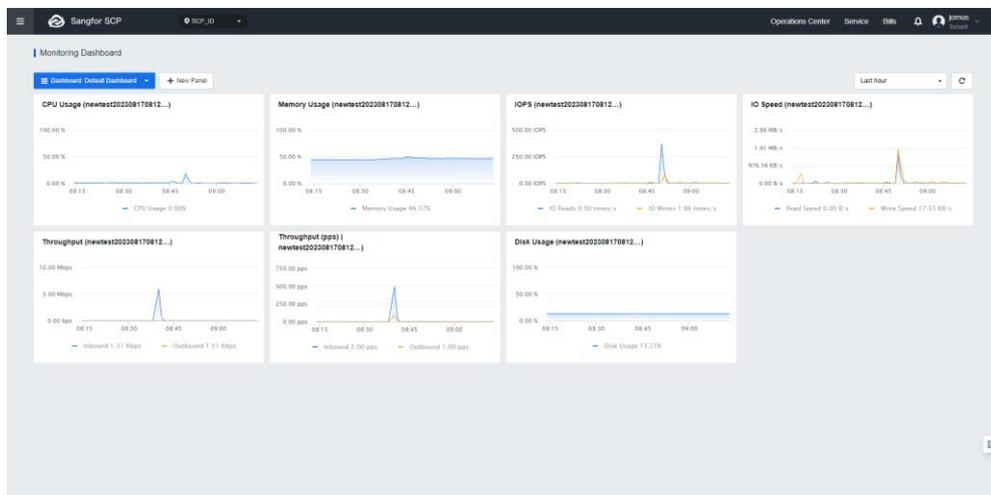


- On the **Monitoring Info** page, the HTTP(S) and TCP tabs display trend charts of Response Time and Availability, and the thresholds are in dashed lines. Filtering by time range is supported.

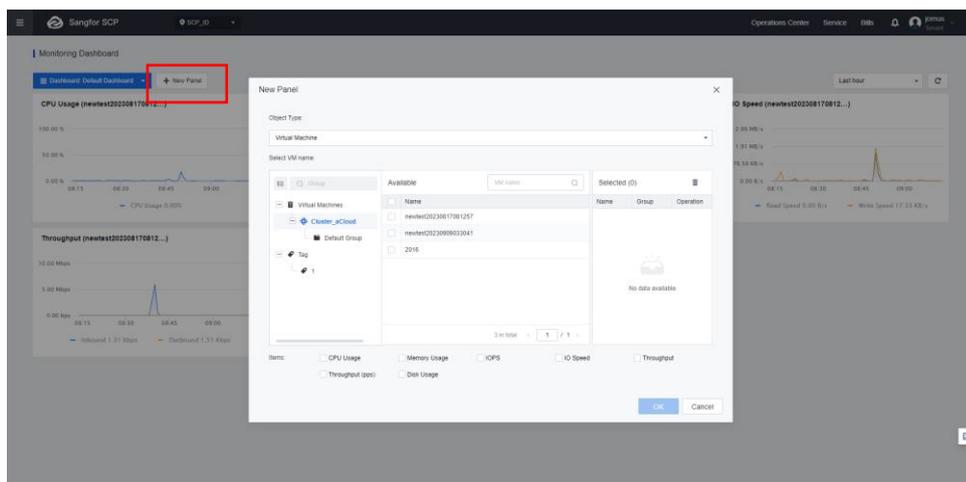


1.4 Monitoring Dashboard

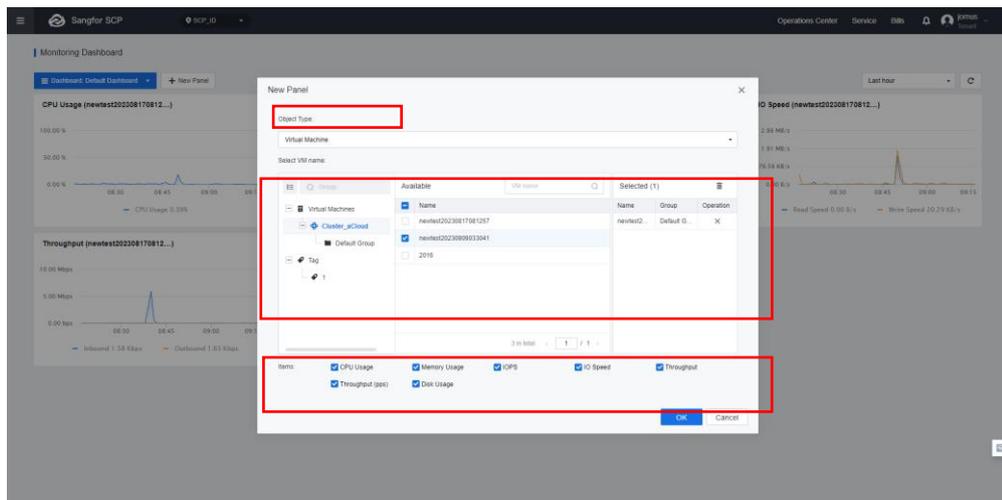
1. Log in to the MCS portal and navigate to **SkyOps > Monitoring Dashboard**. On this page, there are default monitoring dashboard.



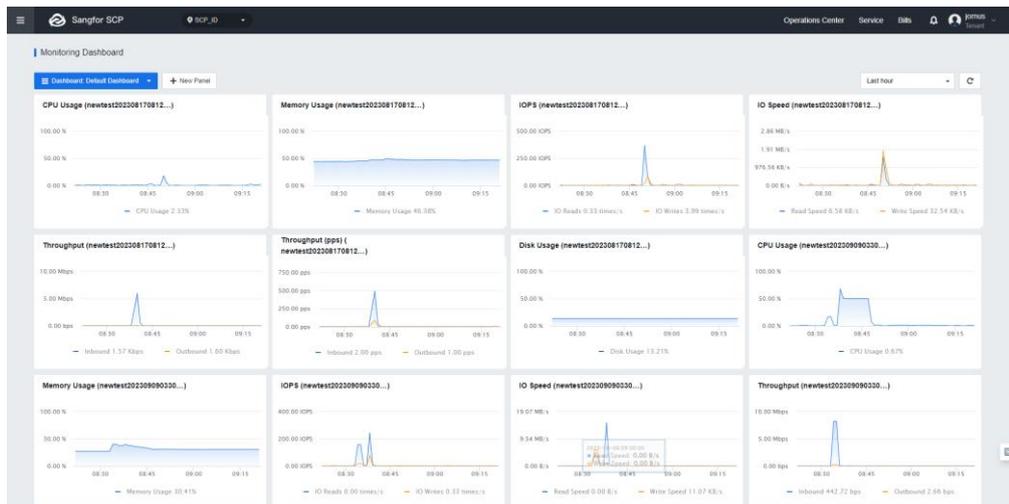
2. You can customize and add panels that meet your requirements by clicking **New Panel**.



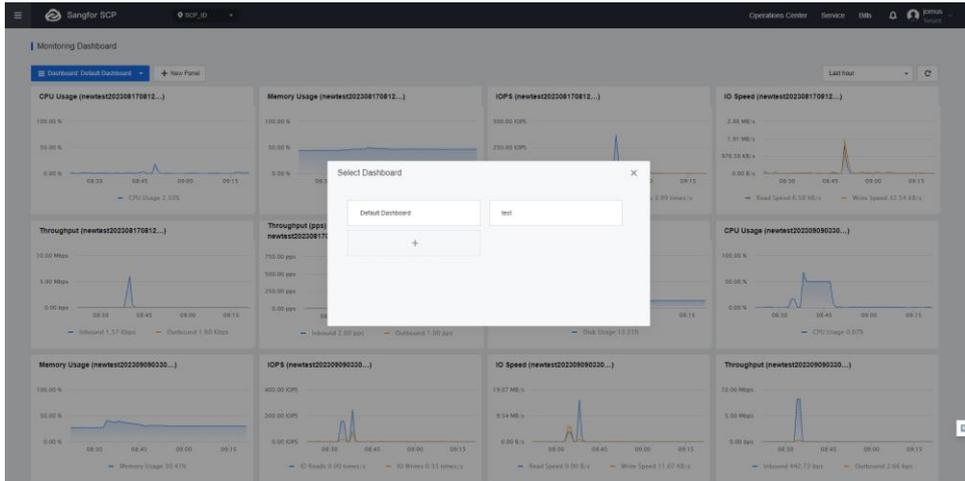
3. Select the **Object Type**, **VM**, and **Items** to create the dashboard. The available **Object Type** are **Virtual Machine**, **Elastic IP**, or **Shared Bandwidth**.



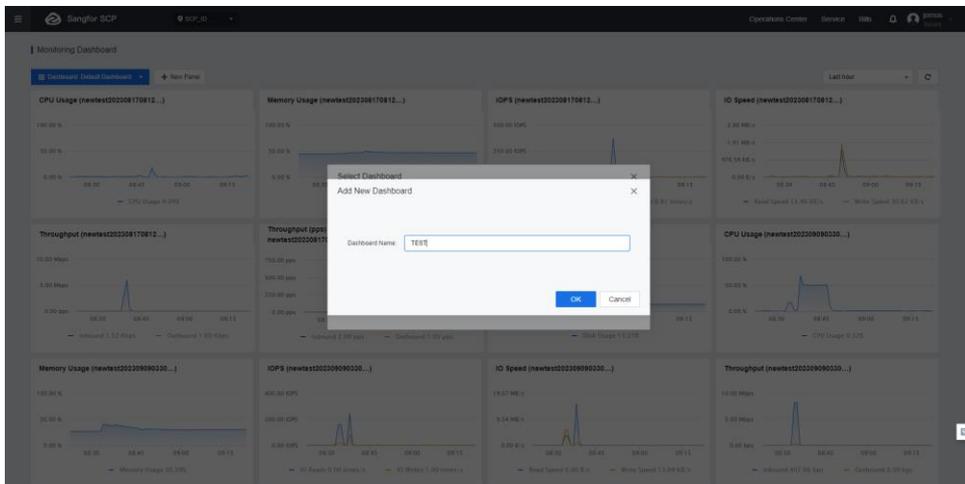
4. Click **OK**, and the customize panel will be auto-generated. The tenant can manually drag and drop to change the panel position or add a new panel by clicking **+New Panel**.



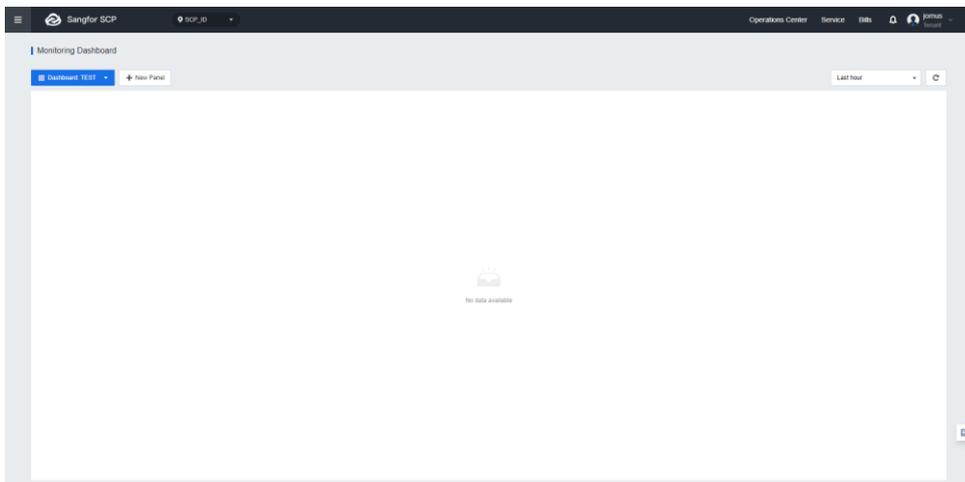
- By clicking **Dashboard**, it supports switching between multiple dashboards if they exist.



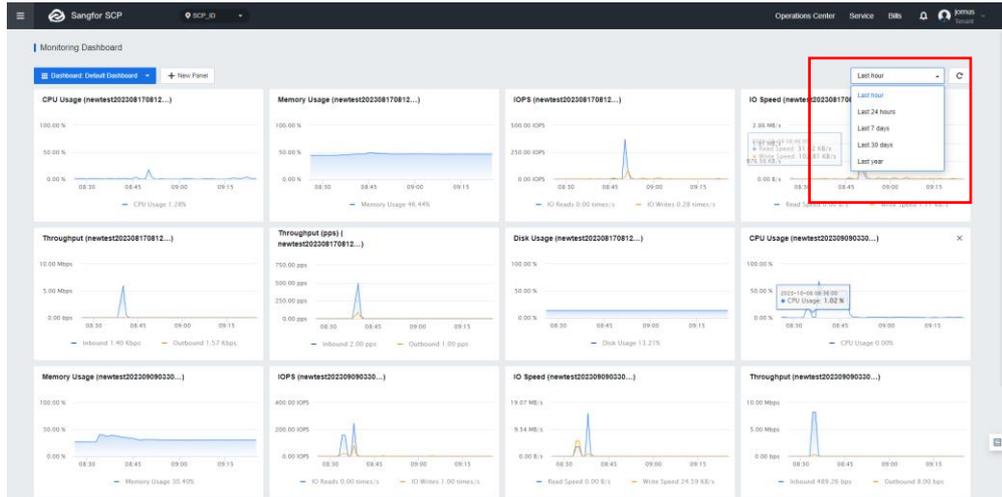
- Click **+** to create a new dashboard to monitor the VM in different groups better.



- Then, you can set up panels for the newly added dashboard.



8. You can use the dropdown menu in the upper right corner to select different dates and times to view the data.



1.4.1 Monitoring

1.4.1.1 Server

On this page, if any dedicated server (Dedicated resources pool/Dedicated server group) is associated with the tenant, the tenant can monitor the dedicated server. Otherwise, it will remain empty.

1.4.1.2 Virtual Machines

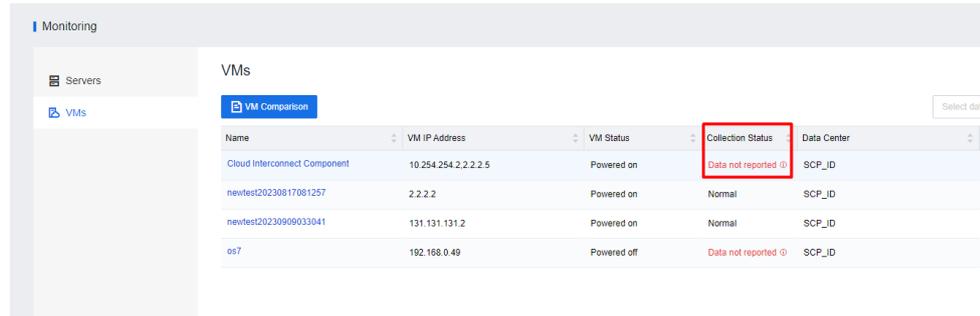
The cloud agent is deployed on the virtual machine to collect and report the monitoring information to the MCS. The Virtual Machine resource usage, traffic usage, and alarm status are shown in graphs.

For virtual machine monitoring, it supports two types of installation methods: **Auto** and **Manual**.

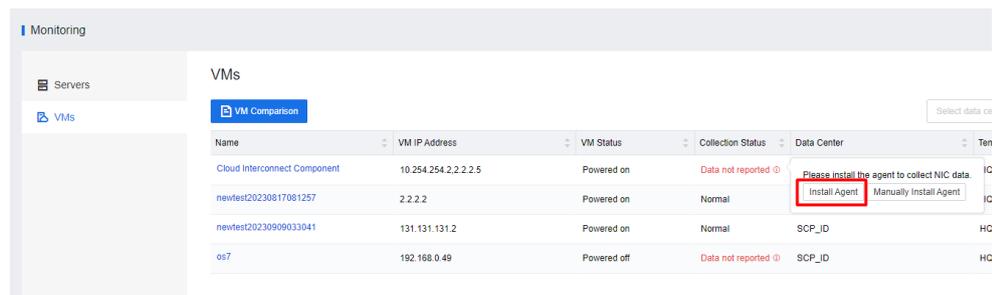
To use the agent auto installation, make sure:

- HCI version is 6.3.0 and above.
- The administrator has already enabled the Shared Service Network for the tenants.
- VM and MCS time difference is less than 5 minutes.

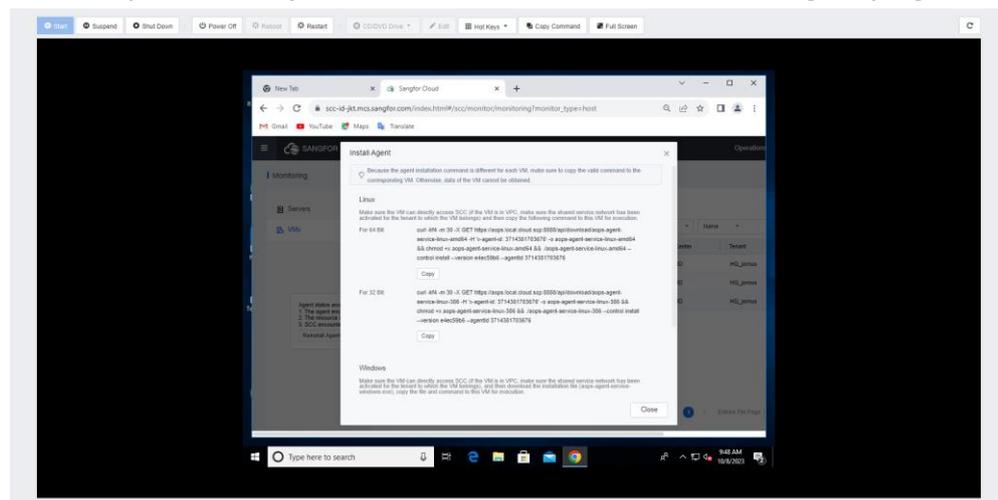
1. Go to **SkyOPS > Monitoring**, and click the **Data not reported** of the selected VM.



2. Select **Install Agent**, which refers to the auto-installation method.



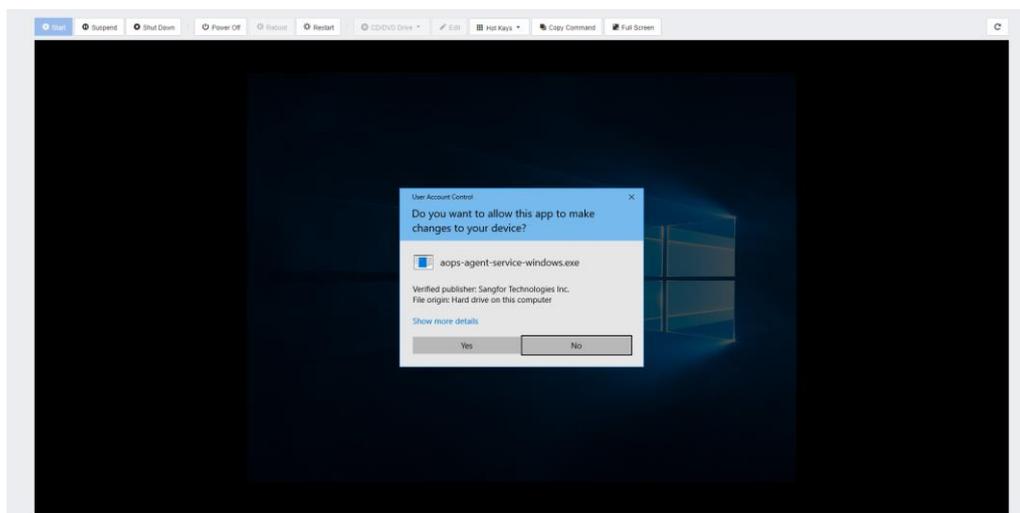
3. If the auto-installation fails, then select **Manually Install Agent**. Login to the MCS platform on your virtual machine to download the agent plugin.



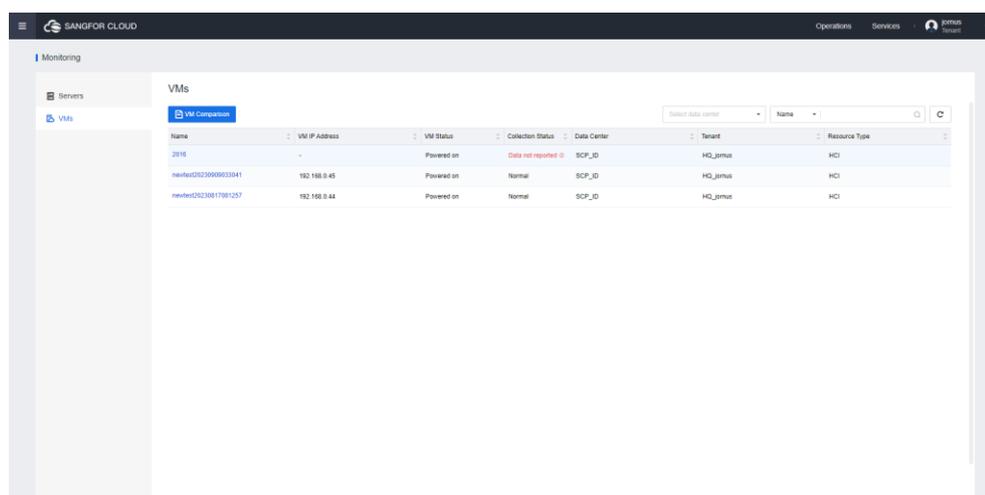
Windows virtual machine



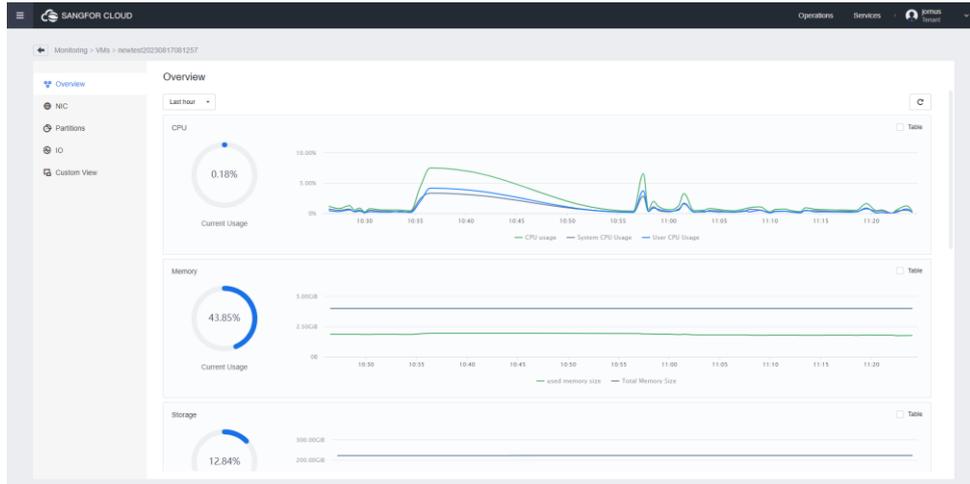
After installing the agent, it will collect virtual machine data and report it to MCS.



4. Wait for the successful execution result.
5. After a moment, you will soon see the **Collection Status** change to **Normal**.

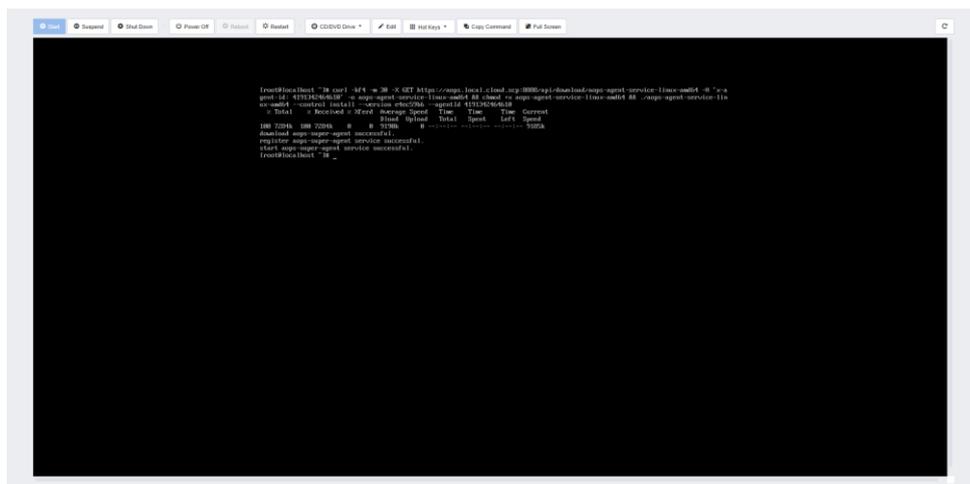
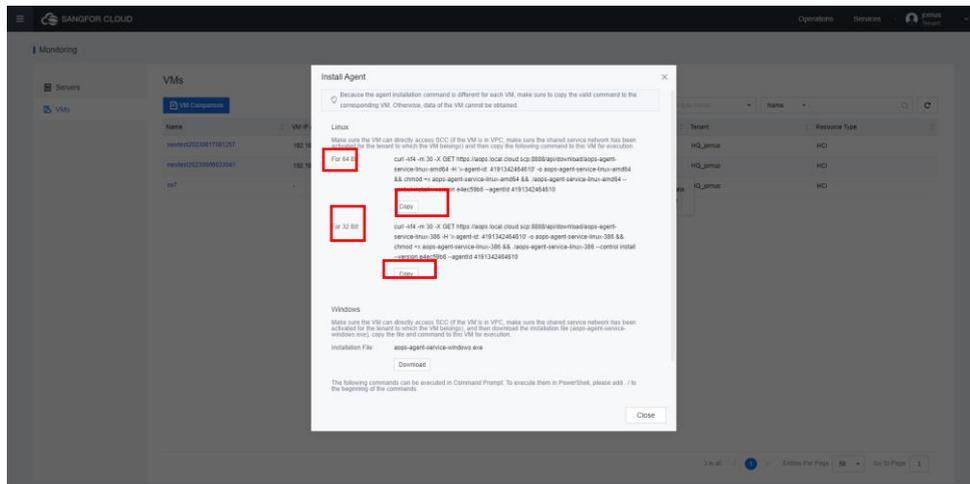


- Click the virtual machine name, and the tenant can obtain the VM's actual information in real-time.

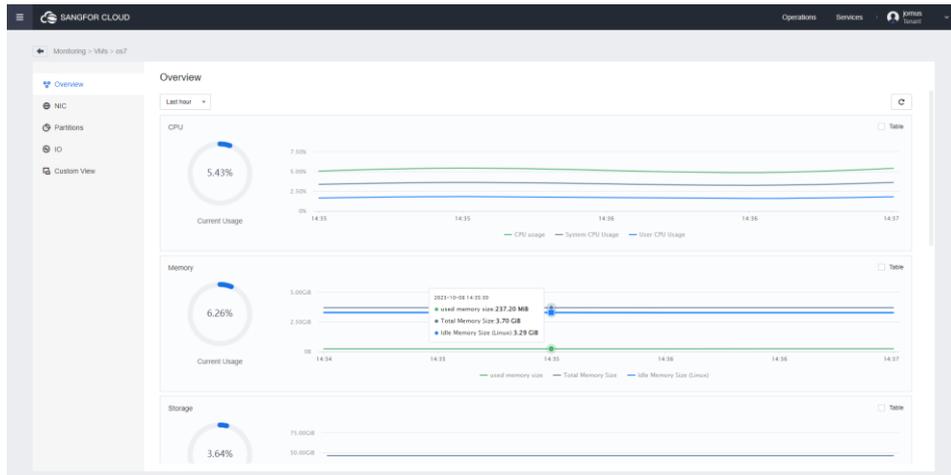


Linux virtual machine

- Copy the command on the page, then execute the command in your Linux virtual machine and wait for the execution result.



- Click the virtual machine name, and the tenant can obtain the VM's actual information in real-time.



1.5 Smart O&M

The console will monitor the platform and virtual machines in real-time based on the alert policies. All alerts will be recorded. Tenants can view recent alerts or historical alerts as needed to troubleshoot and locate abnormalities.

1.5.1 View Alert

View alert issues in **Smart O&M > Alert**. You can filter the alert as shown below.

The screenshot shows the 'Alerts' page in the Sangfor Cloud console. A search filter is highlighted with a red box, showing the date range 'Last 30 d...' and '2023-10-02 09:47 - 2023-11-01 09:47'. Below the filter is a table of alerts:

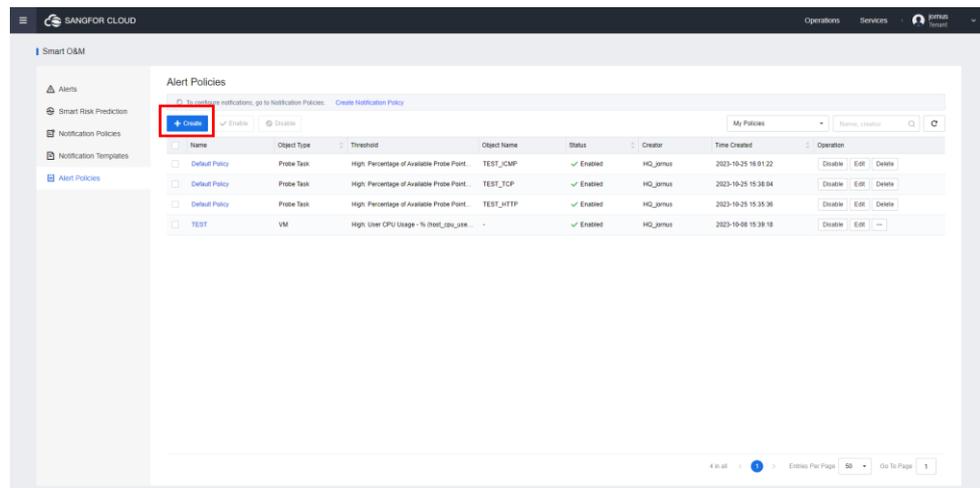
Severity	Last Updated	Duration	Object Type	Object Name	Data Center	Cluster/Resource Pool	Description	Recommendations	Remarks	Operation
High	2023-11-01 09:47:19	62 hours 42 min...	Probe Task	TEST_HTTP	-	-	For https://300-46-j6t.mcs...	-	-	Details Respond Ignore
High	2023-10-31 16:57:49	136 hours 16 mi...	Probe Task	-	-	-	For 103.113.132.248.80...	-	-	Details Respond Ignore
Medium	2023-11-01 09:47:05	593 hours 3 min...	Server	Interface (eth1)...	-	CTI_Cluster	The max frame size (152...	-	-	Details Respond Ignore
Medium	2023-11-01 09:46:35	42 hours 23 min...	Server	Interface (eth0)...	-	Demo_Cluster	The max frame size (161...	-	-	Details Respond Ignore
Medium	2023-11-01 09:46:05	114 hours 54 mi...	VM	Edward Window...	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:46:05	148 hours 12 mi...	VM	Kaifu_WIAND	-	CTI_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:43:05	38 minutes 55 s...	VM	WQ_testing_70m...	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:36:05	21 hours 1 minut...	VM	AC 13 x old UI	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:35:05	22 hours 34 min...	VM	2012R2	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:30:05	134 hours 44 mi...	VM	AC 13 x new ui	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:28:05	140 hours 59 mi...	VM	oiso	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:26:05	57 minutes 55 s...	VM	Win10_2092	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
Medium	2023-11-01 09:22:05	140 hours 59 mi...	VM	AC 12 x	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore
High	2023-11-01 09:21:05	676 hours 49 mi...	VM	oiso	-	Demo_Cluster	The memory usage of th...	Recommendatio...	-	Details Respond Ignore

1.5.2 Alert Policies

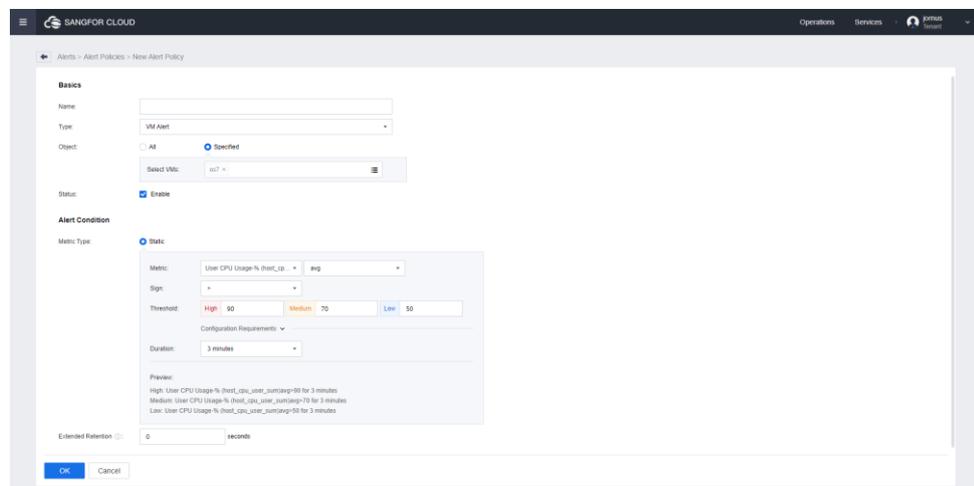
Tenants can create, edit, enable, disable, and delete alert policies on the **Alert**

Policies page.

1. Log in to MCS, navigate to **Smart O&M > Alert > Alert Policies**, and click **Create**. The probe task will be considered a default alert policy.



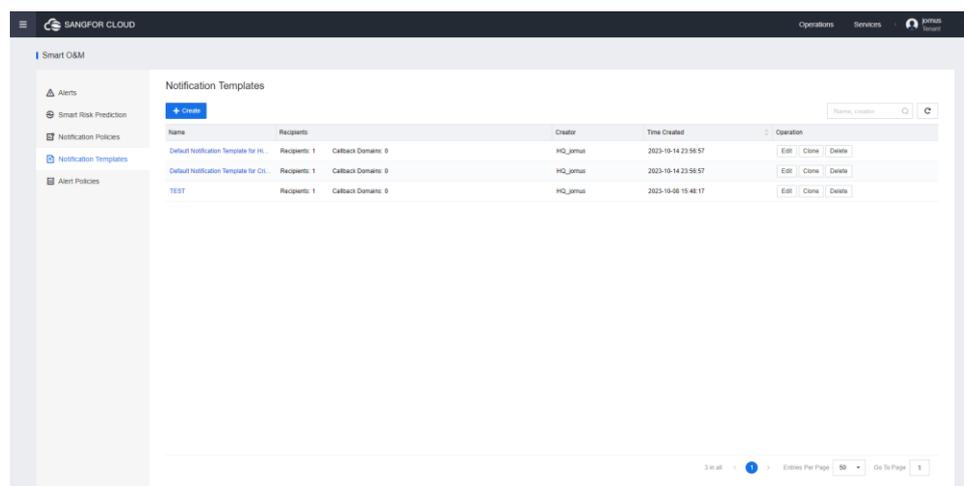
2. Configure **Basics** and **Alert Condition** according to requirements.



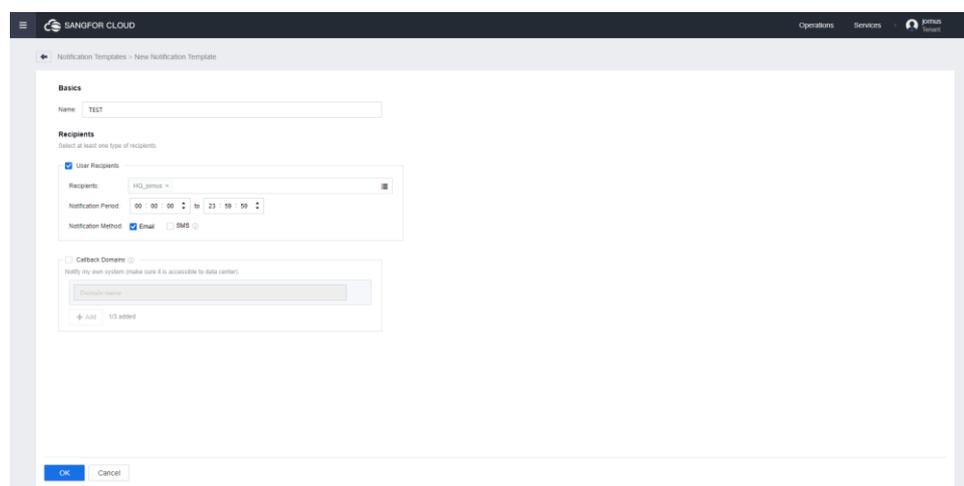
1.5.3 Notification Policies

Tenants can **create, edit, enable, disable, and delete** notification policies on the **Notification Policies** page.

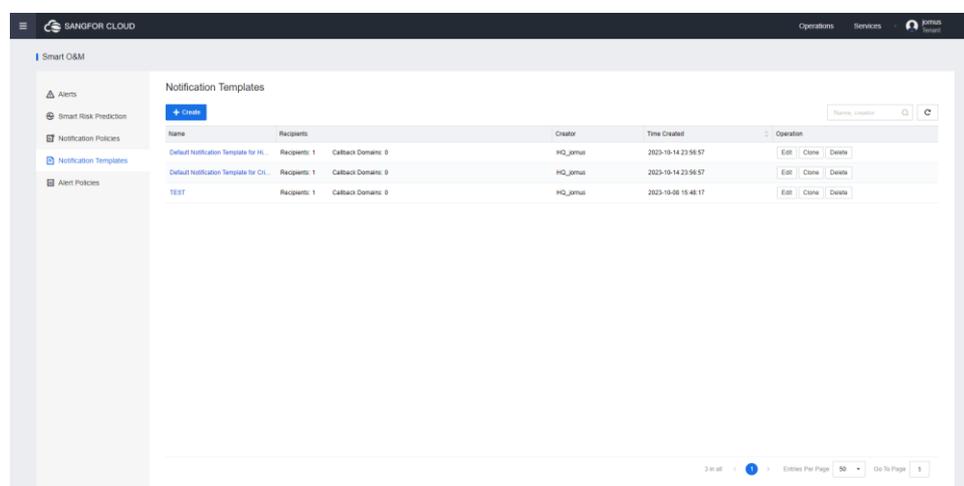
1. Log in to the MCS, navigate to **Smart O&M > Alert > Notification Template**, and click **Create**.



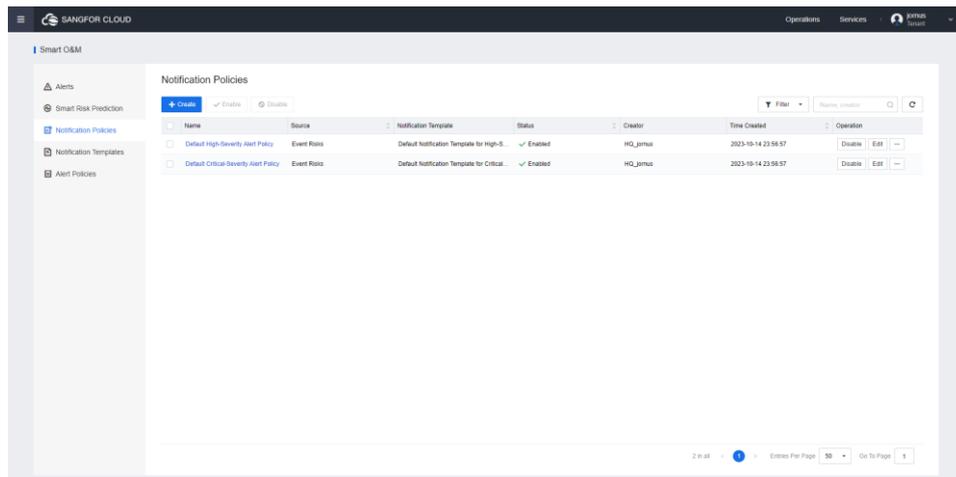
2. Configure **Basics** and **Recipients** according to requirements.



3. Click **OK** to complete the configuration of templates.



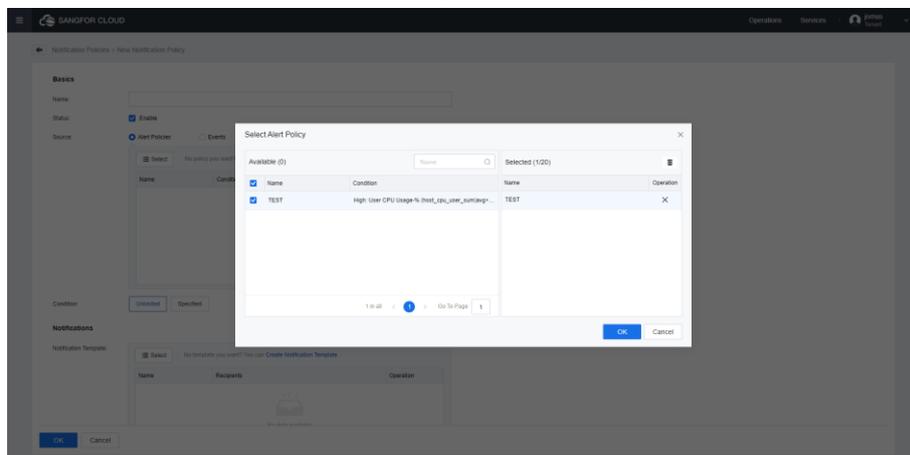
4. In **Notification Policies**, click **Create**.



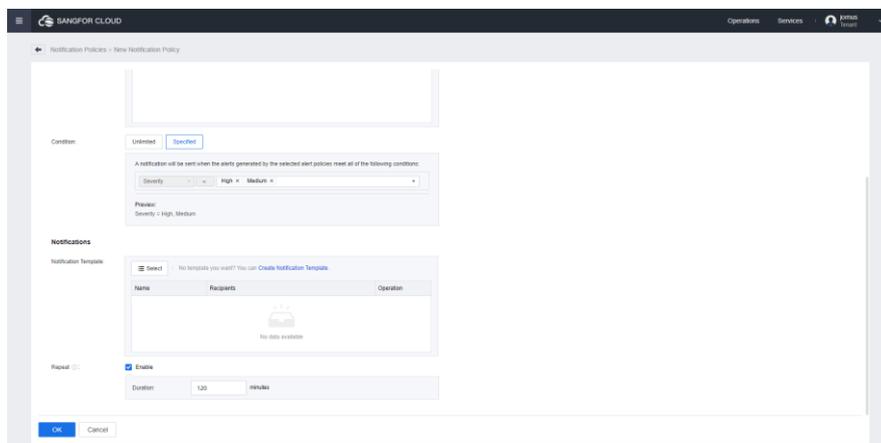
5. Configure the options according to your needs.

Select **Source** as **Alert Policies**:

a. Click **Select** to choose the recently created alert policies.

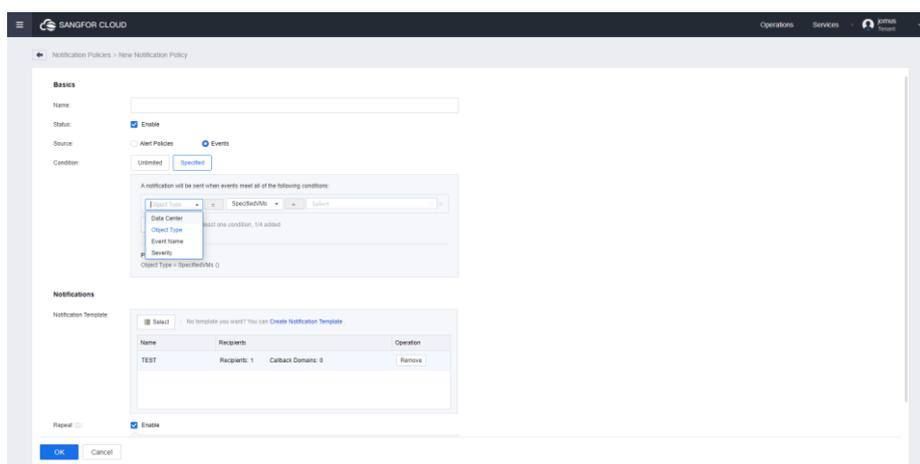


b. In **Condition**, set it as **Unlimited** or **specify the alert severity**.

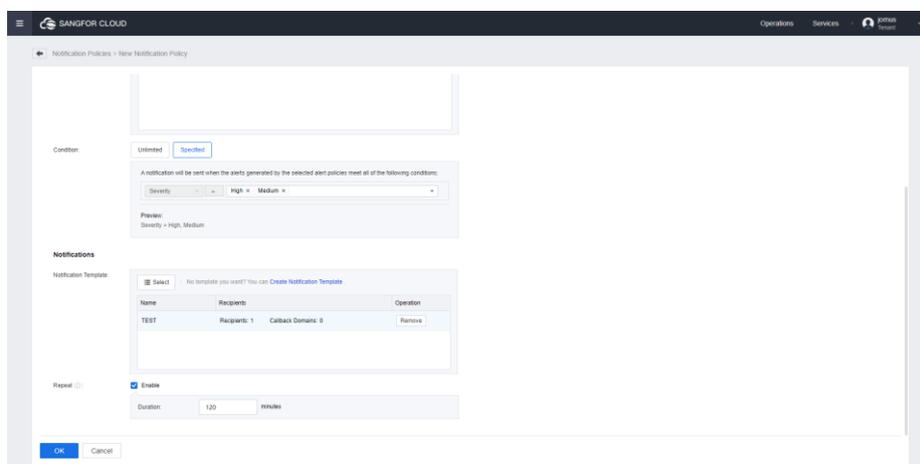


Select **Source** as **Event Risks**:

- a. In **Condition**, select **Unlimited** or **Specified** according to different conditions. Alert notifications will be triggered based on the selected event.

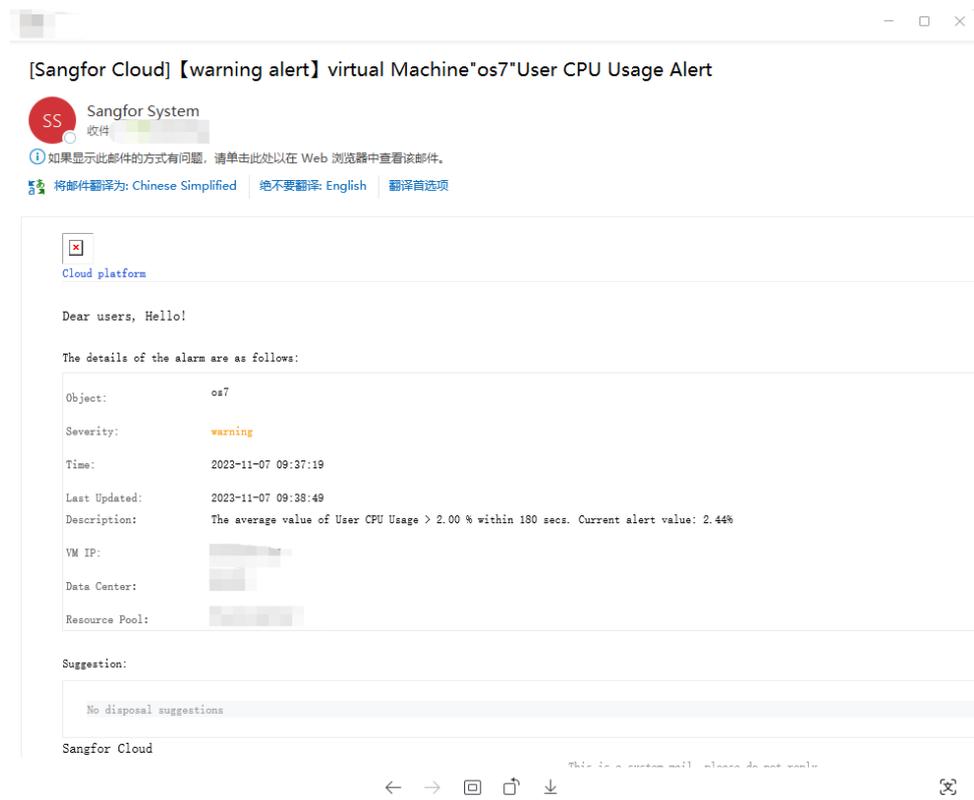


- b. In the **Notification Template**, select the notification templates that we just created.



- c. Click **OK** to complete the configuration.

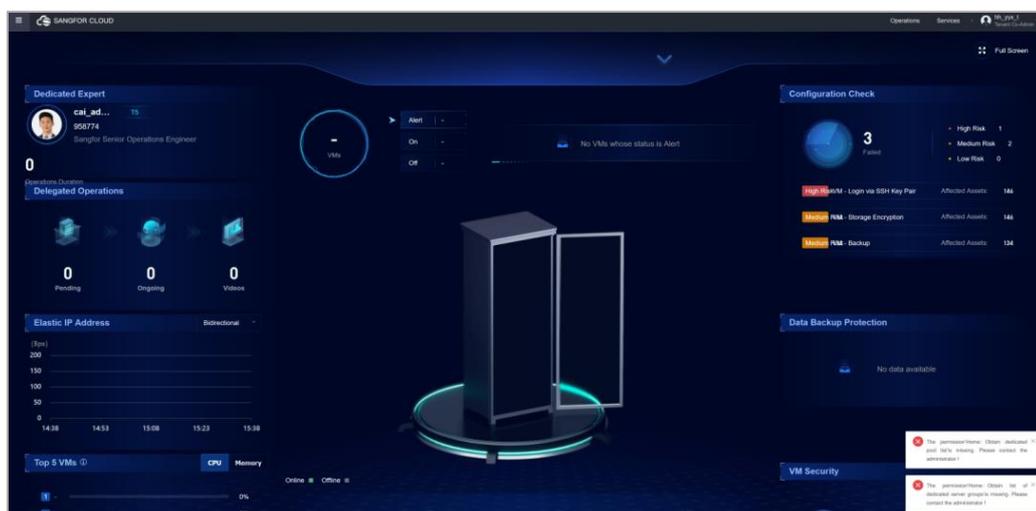
6. An example of an alert is shown below.



1.6 Tenant Co-Admin Monitoring

The monitor displayed for the tenant co-admin is the same as that for the tenant if the tenant allocates related permissions, such as the [homepage](#), [dedicated cloud monitor](#), and [monitoring permissions](#), to the tenant co-admin.

If permissions are not allocated to the tenant co-admin, no data is available on the monitor for the tenant co-admin.



Relevant data will be available if the following permissions are allocated to the tenant co-admin:

Home: Obtain the list of dedicated resource pools

Home: Obtain the dedicated resource pool overview

Home: Obtain the overview of physical resources of the dedicated resource pool

Home: Obtain the data backup protection information of the dedicated resource pool

Home: Obtain the intelligent security protection information of the dedicated resource pool

Home: Obtain the security information of VMs in the dedicated resource pool

Home: Obtain the server list

Home: Obtain the server details

Home: Obtain the list of dedicated server groups

Home: Obtain the dedicated server group overview

Home: Obtain the list of elastic IPs of the dedicated server group

Home: Obtain the overview of physical resources of the dedicated server group

Home: Obtain the data backup protection information of the dedicated server group

Home: Obtain the intelligent security protection information of the dedicated server group

Home: Obtain the security information of VMs in the dedicated server group

Home: Obtain the VM list

Home: Obtain the information of the dedicated expert and MSP

Home: Obtain the information of delegated operations service

Home: Obtain the configuration check information of VMs

Operations Center: Obtain the list of elastic IPs and bandwidth

O&M - Monitoring and Alert: View the trend graph of monitoring data

O&M - Monitoring and Alert: View the latest monitoring data

