

Alibaba Cloud Cloud Monitor

Quick Start

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information 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.
	This warning information 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 restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Note: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	It is used for commands.	Run the <code>cd /d C:/windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

Contents

Legal disclaimer.....	I
Generic conventions.....	I
1 Cloud service monitoring.....	1
2 Dashboard.....	4
3 Custom monitoring.....	7
4 Application groups.....	8
5 Alarm service.....	10
6 Host monitoring.....	11

1 Cloud service monitoring

Application scenarios

With cloud service monitoring, you can query the performance metrics of the purchased cloud service instances. This information can help you analyze the resource usage and business trend statistics, allowing you to quickly detect and diagnose system problems.

CloudMonitor supports the following products:

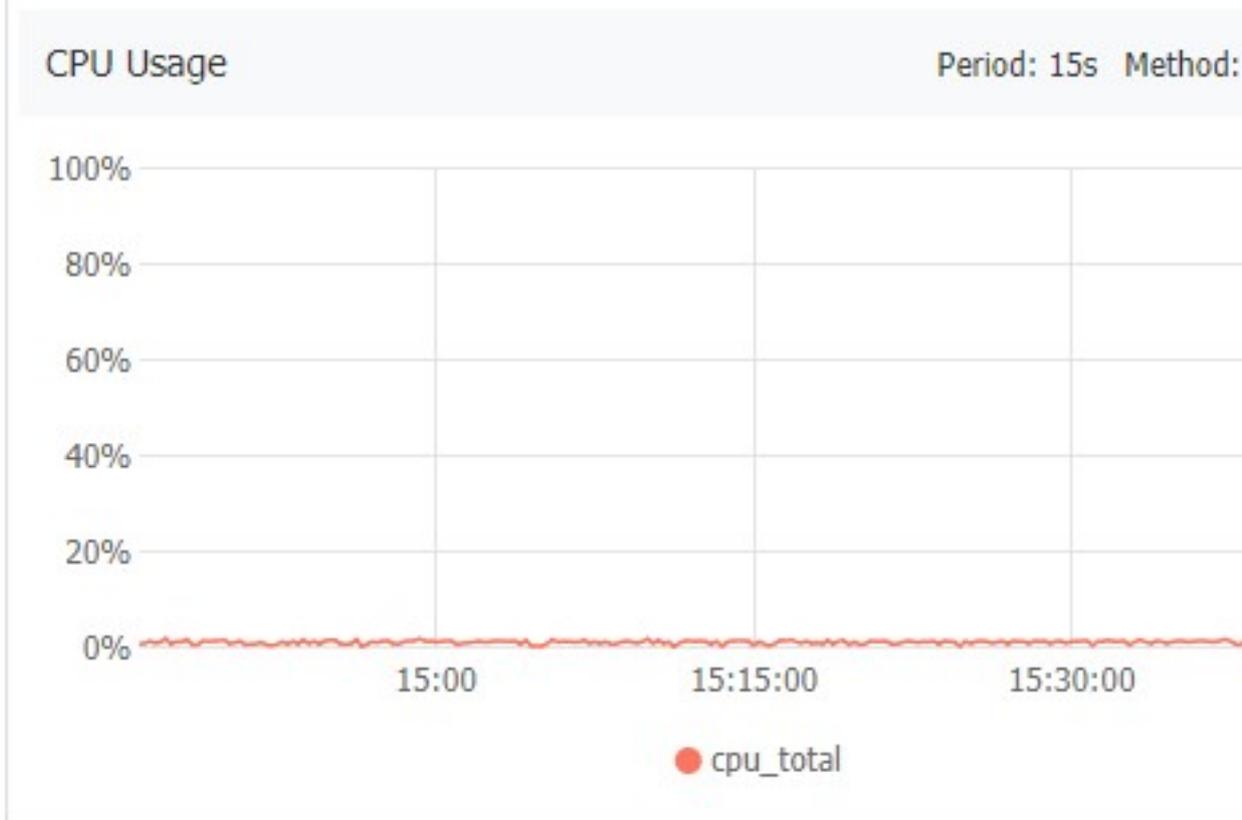
- [Host Monitoring](#)
- [ApsaraDB for RDS](#)
- [Server Load Balancer](#)
- [Object Storage Service](#)
- [Alibaba Cloud CDN](#)
- [Elastic IP Address](#)
- [Express Connect](#)
- [NAT Gateway](#)
- [ApsaraDB for Memcache](#)
- [ApsaraDB for MongoDB](#)
- [ApsaraDB for Redis](#)
- [Analytic DB](#)
- [HiTSDB](#)
- [Message Service](#)
- [Log Service](#)
- [Container Service](#)
- [API Gateway](#)
- [E-MapReduce](#)
- [Auto Scaling](#)
- [ApsaraDB for PetaData](#)
- [ApsaraDB for HybridDB](#)
- [Openad](#)
- [Function Compute](#)

Procedure

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Cloud Service Monitoring**, and click the product you want to view. To view the ECS instances, select **Host Monitoring**.
3. Click an instance name or click **Monitoring Charts** in the **Actions** column to access the instance monitoring details page.

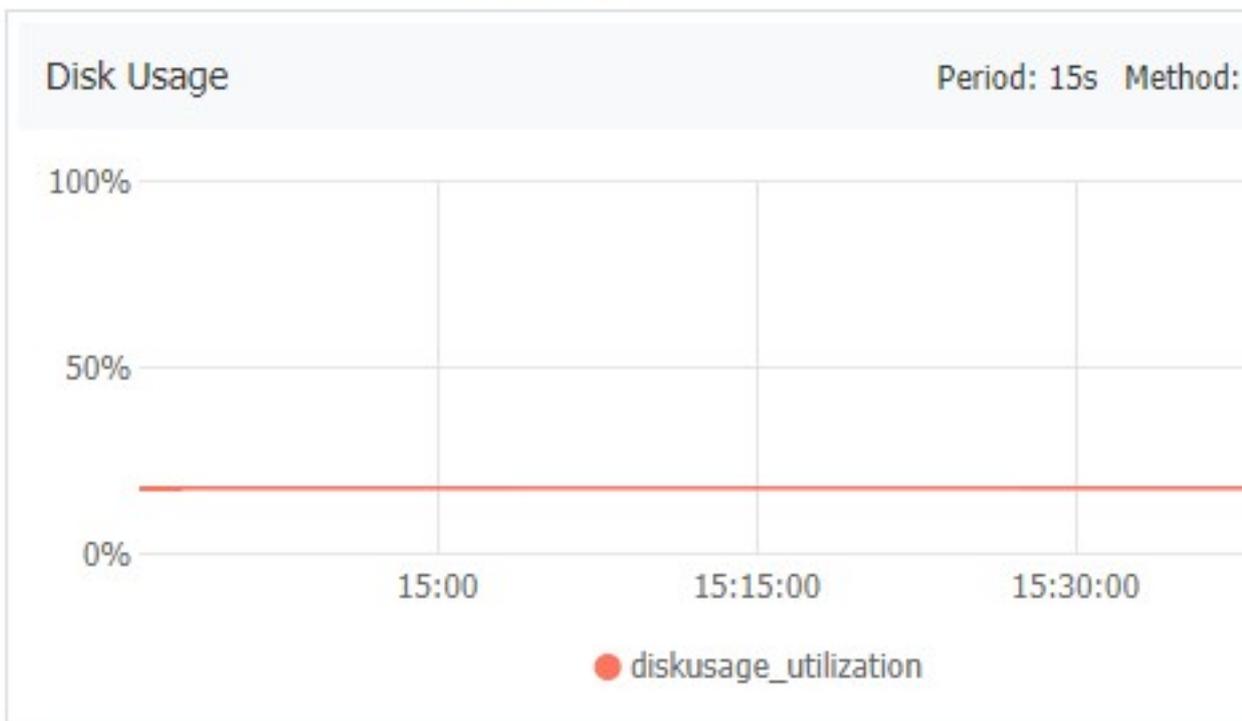
Instancesname/Host Name	Agent Status (All)	Agent Version	Region	IP	Network Type	CPU Usage	Memory Usage	Disk Usage	Actions
 [Instance Name]	 Running	1.2.28	China North 2 (Beijing)		VPC	3.73%	23.11%	8%	Monitoring Charts Alarm Rules
 he-ecs-tokyo-站中监控证书勿删 (i-5we8r7wd61cp3bvs4esg)	 Running	1.2.28	Asia Pacific NE 1 (Tokyo)		VPC	0.99%	26.18%	9%	Monitoring Charts Alarm Rules

4. View the instance monitoring details.



Disk Metric

Disk Device **/dev/vda1(/)**



2 Dashboard

Application scenarios

Alibaba Cloud CloudMonitor dashboards are customizable pages that can be used to monitor data from multiple products and instances in all one area.

View a dashboard

You can quickly view the resources used by each cloud product on its corresponding dashboard.

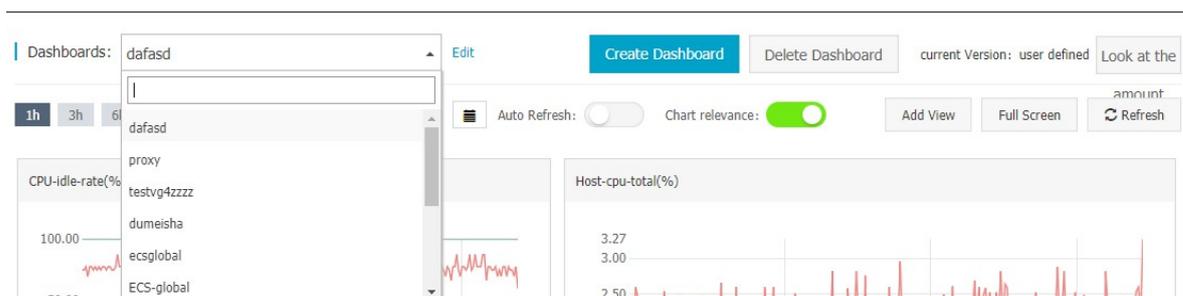


Note:

- By default, CloudMonitor displays the ECS global dashboard and part of your ECS monitoring data.
- You can add the monitoring data of other cloud products as needed.

Procedure

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Dashboard** and click **Custom Dashboard**. The **Dashboards** page is displayed.
3. Select the target dashboard from the **Dashboards** drop-down list. You can switch the dashboard view by selecting different dashboards.



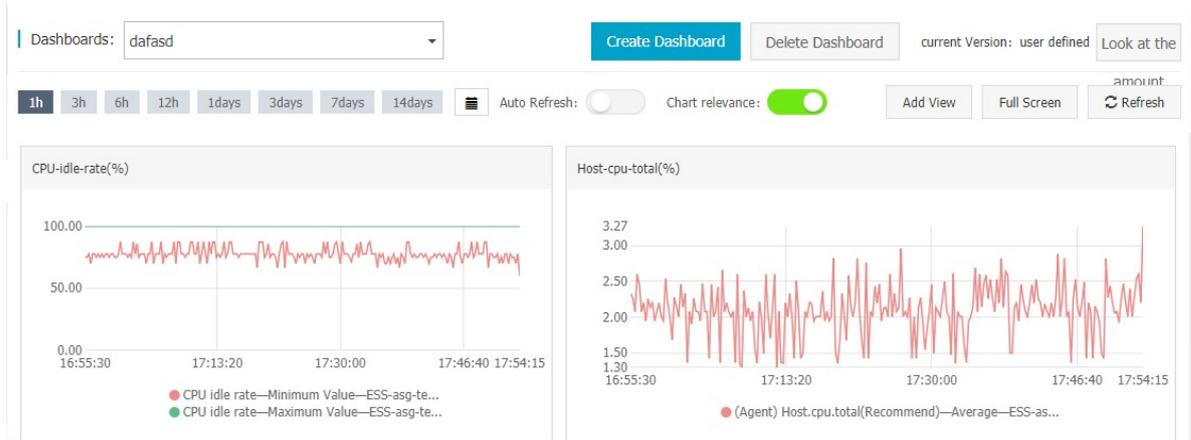
Create a dashboard

You can create a dashboard and customize the view to meet your specific requirements in complex service scenarios.

Procedure

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Dashboard** and click **Custom Dashboard**. The **Dashboards** page is displayed.

3. In the upper-right corner of the page, click **Create Dashboard**.



4. Enter the dashboard name and click **Create**.

The screenshot shows a 'Create Dashboard' dialog box. It has a title bar with 'Create Dashboard' and a close button (X). Below the title bar is a text input field with the placeholder text 'Enter the dashboard name.'. At the bottom right of the dialog are two buttons: 'Create' and 'Close'.

5. On the displayed page, add charts as needed.

Add a monitoring chart

You can add major cloud product metrics and your service metrics to the dashboard.

If you use multiple cloud products for your application, you can add the cloud product metrics to the same dashboard by adding a chart, so that you can view the global cloud product monitoring data.

When you report your service monitoring data by using the CloudMonitor API, you can add a chart to display the monitoring data.

Procedure

For details, see [Add chart](#).

Delete a dashboard



Note:

- When you delete a dashboard, all charts added to it are deleted.
- Monitoring data cannot be restored after you delete it.

- We recommend that you not delete a dashboard unless necessary.

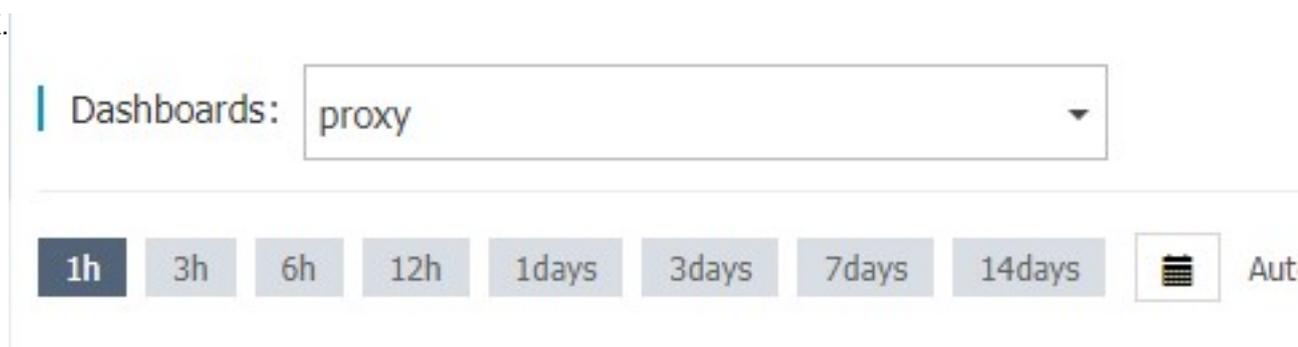
Procedure

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Dashboard** and click **Custom Dashboard**. The **Dashboards** page is displayed.
3. In the upper-right corner of the page, click **Delete Dashboard**.

Modify a dashboard

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Dashboard** and click **Custom Dashboard**. The **Dashboards** page is displayed.
3. Rest the pointer on a dashboard until the **Edit** button is displayed. Click **Edit**, enter the new dashboard name, and click

OK.



3 Custom monitoring

Overview

Customized Monitoring allows you to customize monitoring metrics and alarm rules. With this feature, you can monitor desired business metrics and report collected monitoring data to CloudMonitor, so that CloudMonitor can process the data and trigger alarms for the monitored results.

What is the difference between event monitoring and customized monitoring?

Event monitoring is designed for reporting, query, and alarm scenarios of discontinuous event monitoring data. Custom monitoring is used when monitored data collected cyclically and continuously in the time series is reported and queried and alerts are generated.

Procedure

1. Report monitoring data.
2. Search monitoring data
 - a. View all Customized Monitoring data
 - A. Log in to the CloudMonitor console.
 - B. Click custom monitoring in the left-hand navigation bar.
 - C. Select the corresponding application grouping and monitoring items to enter the time series details page.
 - D. Check the time series you want to view.
3. Set an alert policy.
 - a. Click Apply grouping in the navigation bar, click the groups you want, and then click customize monitoring in the navigation bar.

Or click customize monitoring in the navigation bar to select the corresponding application grouping and monitoring items, enter the time series details page.
 - b. 3. Select the time sequence for which you need to create alarm rules. Click Set Alarm Rules in the Action column.
 - c. Go to the create alarm Rule Page, fill in the alarm rule name, select the appropriate monitoring item, dimension, alarm policy and notification method.

4 Application groups

Application scenarios

- **Service-based resource management**

Application groups allow enterprise-level users to categorize resources under their accounts and query monitoring and alarm information by service.

- **Inspection and fault detection**

Application groups provide features such as group health measurements, fault lists, and resource dashboards, which allow you to inspect resource usage and quickly locate any faulty resources and determine alarm causes.

- **Improved resource usage efficiency**

Application groups can aggregate and display multidimensional monitoring data, helping you query monitoring data from single instances or groups, so that you can quickly locate abnormally high resource usage.

Features

With application groups, you can:

- Manage your cloud resources across products and regions by service.
- Manage all resources in a group by configuring only one alarm rule, helping to improve O&M efficiency.
- Identify faulty instances immediately by checking the fault list.
- Display the charts in a group as required on the application group details page.

Procedure

To create an application group, perform the following steps:

1. Log on to the [CloudMonitor console](#).
2. In the left-side navigation pane, select **Application Groups**. The **Application Groups** page is displayed.
3. In the upper-right corner of the page, click **Create Group**. The **Create Group** page is displayed.
4. Enter the product group name and select a contact group.
5. Select an alarm template.

6. Add an instance dynamically. For example, you can add an ECS instance according to the dynamic rule you have created. All instances that are created according to the rule are automatically added to the application group.
7. Add products. The ECS products are initialized by default. You can click **Add Product** and **Delete** to specify the product scope.
8. Click **Create Application Group**.

5 Alarm service

Application scenarios

The CloudMonitor alarm service generates alarms during data monitoring. You can set alarm rules to specify how the alarm system checks data and how it sends alarm notifications when alarms are triggered.

By setting alarm rules for important metrics, you can monitor for, and immediately handle, any system exceptions.



Note:

- Alarm rules have a default mute period of 24 hours, so that, if an exception occurs, only one alarm notification will be sent in the first 24 hours so to avoid sending unnecessary alarms.
- By default, CloudMonitor adds the contact name specified during account registration as the alarm contact and creates an alarm contact group for this alarm contact.

Features

With the CloudMonitor alarm service, you can:

- Set alarm rules for any of the metrics of CloudMonitor.
- Set alarm rules for instances, application groups, and all resources.
- Set the alarm rule effective period customizing the period of time where an alarm rule takes effect.
- Set the notification methods for different channels and customize the subject and remarks for an email notification.

Procedure

1. Log on to the [CloudMonitor console](#).
2. Add one or more contacts and contact groups. For more information, see [Manage alarm contacts and alarm contact groups](#).
3. Create one or more alarm rules as required. For more information, see [Manage alarm rules](#).

6 Host monitoring

Application scenarios

- **Hybrid cloud monitoring solution**

CloudMonitor uses an agent to collect server monitoring data. You can install the agent on a non-ECS server to perform basic monitoring check both locally and on the cloud.

- **Enterprise-level monitoring solution**

Host monitoring provides an application grouping feature with which you can allocate servers in different regions to the same group for business-based server management. In addition, host monitoring provides group-based alarm management. You can configure one alarm rule for the entire group greatly improving O&M efficiency and your overall management experience.

Features

- **Diverse metrics**

Once a CloudMonitor agent is installed, you can use more than 30 metrics. For details, see [Host monitoring metrics](#).

- **Refined collection frequency**

Key metrics are collected every second. All the metrics are reported at a 15-second interval, which is the minimum interval between the data points in a chart.

- **Business-level process monitoring**

The host monitoring service collects statistical data from the CPU and memory usage of active processes and the number of opened files, helping you gain insight into server resource allocation. For details, see [Process Monitoring](#).

- **Application groups**

You can manage servers by group across regions and set alarm rules according to group, greatly reducing monitoring management costs.

- **Alarm service**

You can set alarm rules for the metrics. The following alarm notification methods are supported : telephone alarms, messages, email IDs, Ali WangWang, and DingTalk Robot.

Procedure

1. Log on to the [CloudMonitor console](#).

- In the left-side navigation pane, click **Host Monitoring**. The **Host Monitoring** page is displayed.
- Click **Click to install** in the instance list. Alternatively, click **Aliyun ECS install** or **Not Aliyun ecs install** and install the agent manually as prompted.

The screenshot displays the Cloud Monitor interface for Host Monitoring. On the left is a navigation pane with options like Overview, Dashboard, Application Groups, Host Monitoring, Event Monitoring, Custom Monitoring, Site Monitoring, Cloud Service Monito..., and Alarms. The main content area shows a table of instances. At the top of this area, there are buttons for 'Aliyun ECS install' and 'Not Aliyun ecs install'. Below these are tabs for 'Instances' and 'Alarm Rules', and a search bar. The table lists several instances, with the 'Agent Status' column showing 'Installation Failed' for some and 'Click to install' for others. The 'Click to install' button for the instance 'launch-advisor-20181025 (i-rj9htgltshh2oozvphpl)' is highlighted with a red box.

Instancesname/Host Name	Agent Status (All)	Agent Version	Region	IP	Network Type	CPU Usage	Memory Usage	Disk Usage	Actions
launch-advisor-20181018 (i-gw86g7krfk0odrvwcrq)	Installation Failed		EU Central 1 (Frankfurt)	192.168.1.137	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules
launch-advisor-20181024 (EIP Instance, : eip-8psq833xbjzponi6ycy) (i-8ps0h95usd2v70f5om1)	Installation Failed		Asia Pacific SE 3 (Kuala Lumpur)	47.254.199.27 172.24.172.8	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules
launch-advisor-20181025 (i-rj9htgltshh2oozvphpl)	Click to install		US West 1 (Silicon Valley)	47.254.41.143 172.20.80.206	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules
launch-advisor-20181025 (i-rj9733vjev9e0fm0amin)	Click to install		US West 1 (Silicon Valley)	47.254.42.160 172.20.80.207	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules
launch-advisor-20181025 (i-rj9acogowk41dr8hg4wf)	Click to install		US West 1 (Silicon Valley)	172.20.80.208	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules
izt4n0zu5d5mqquisd3qwZ (i-t4n0zu5d5mqquisd3qw)	Click to install		Asia Pacific SE 1 (Singapore)	47.74.252.163 172.21.72.88	VPC	NaN	NaN	NaN	Monitoring Charts Alarm Rules

- Wait 1 to 3 minutes and click **Monitoring Charts** to view the monitoring data.