

Alibaba Cloud Cloud Monitor

Product Introduction

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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.	 Notice: 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 an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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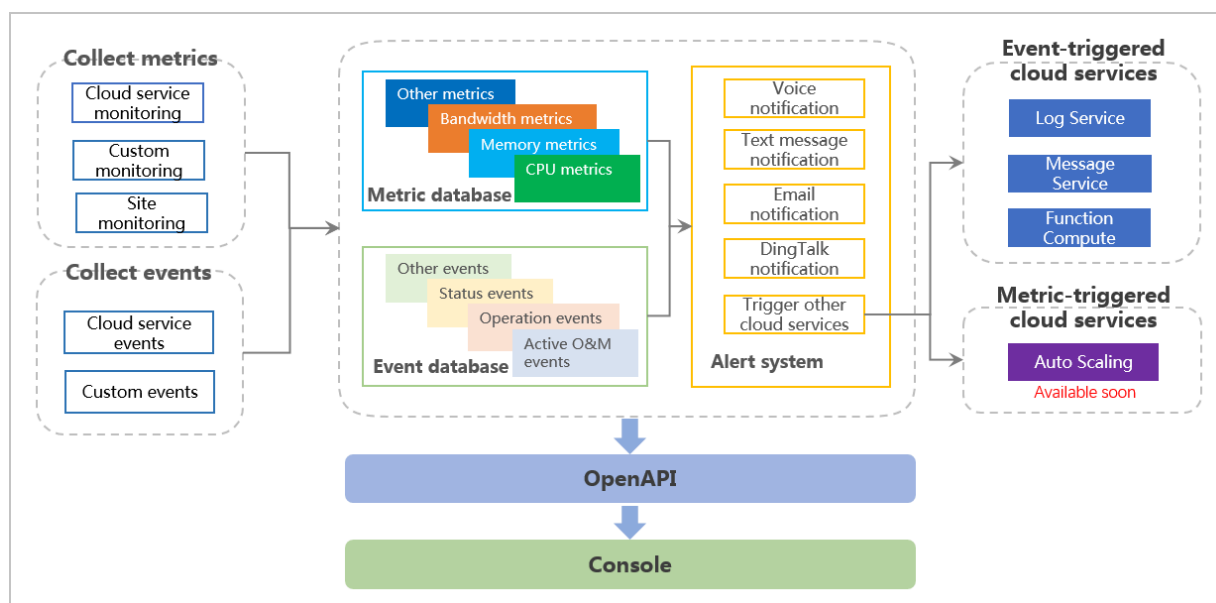
1 Overview

CloudMonitor is a service provided by Alibaba cloud to monitor Alibaba Cloud resources and Internet applications.

CloudMonitor provides one-stop, ready-to-go, and enterprise-class monitoring solutions for cloud users. CloudMonitor is able to monitor IT facilities, external network quality, events, custom metrics, and service logs. CloudMonitor provides you with efficient, comprehensive, and cost-effective monitoring services. CloudMonitor utilizes cross-service and cross-region application group management models and alert templates. CloudMonitor allows you to build an efficient management system to monitor and send alert notification for dozens of cloud services and tens of thousands of instances. With CloudMonitor, you can build and customize a monitoring dashboard for your services. CloudMonitor helps you increase system service availability and reduce the O&M costs of IT systems.

CloudMonitor collects data on Alibaba Cloud resource metrics and custom metrics. CloudMonitor can be used to detect the availability of your service and allows you to configure alerts on specific metrics. CloudMonitor provides a real-time overview of cloud services, resource usage, and alerts. With this information, you can promptly react to exceptions and ensure the availability of your applications.

Architecture



Features

CloudMonitor provides the following features:

- **Dashboard:** allows you to view the monitoring data as needed. On a dashboard, you can view the monitoring data of multiple services and instances from a central location.
- **Application group:** allows you to group regions and services together to manage their resources. With this feature, you can manage service-related resources such as servers, databases, Server Load Balancer (SLB) instances, and storage. You can manage alert rules and view the monitoring data related to each service to streamline O&M.
- **Host monitoring:** installs plug-ins on servers to monitor and provide alert functions for over 30 metrics such as CPUs, memory, disks, and networks. You can configure alert rules based on instances, application groups, or resources. You can customize rules for different services based on different metrics. Currently, host monitoring is supported on both Linux and Windows.
- **Custom monitoring:** allows you to monitor custom metrics that are of concern to your business requirements. The collected monitoring data is reported to CloudMonitor. CloudMonitor processes data and generates alerts based on processing results.
- **Site monitoring:** simulates and sends user requests to your site from nationwide terminal nodes to test and monitor the network quality provided by network operators all over China.
- **Cloud service monitoring:** allows you to query the performance indicators of the purchased cloud service instances. This information helps you analyze the resource usage, collect statistics about the business trend, and identify and diagnose system faults in a timely manner.
- **Event monitoring:** provides report, query, and alarm functions for events. Event monitoring reports exceptions and important changes in your business to CloudMonitor and sends alerts when exceptions occur.
- **Alert service:** sends alerts when the metric values exceed the preconfigured thresholds. You can configure alert rules to specify how the alert system checks the monitoring data and when it sends alerts. By configuring alert rules on important metrics, you can receive notification immediately after any metric data exceptions occur. Then, you will be able to handle the exceptions in time.

2 Benefits

CloudMonitor integrates powerful data analysis capabilities that help you gain insights into the cloud services you use.

Seamless integration

You can access CloudMonitor immediately after you activate your Alibaba Cloud account, enabling you to view and monitor the running status of cloud products and services and set alarms from the start.

Data visualization

CloudMonitor offers a rich array of charts and presentation formats through dashboards, which also supports full-screen presentation and automatic data refresh , to satisfy all of your metric visualization needs.

Monitoring data processing

CloudMonitor helps to process monitoring data through dashboards based on temporal and spatial dimensions.

Flexible alarms

CloudMonitor offers an alarm service where you can set alarm rules and alarm notification methods. By using this service, you can identify and fix the service exceptions without any delay, increasing the availability of your products.

3 Scenarios

CloudMonitor can apply to a wide range of services and monitoring scenarios.

Cloud service monitoring

After activating your Alibaba Cloud account, you can use CloudMonitor to view the running status and metrics of your cloud services and set alarm rules for the metrics.

System monitoring

By monitoring the basic metrics of your ECS services (such as CPU usage, memory usage, and bandwidth), you can ensure the normal running of instances to avoid service malfunction due to resource overuse.

Rapid exception handling

CloudMonitor sends alarm notifications according to the metric thresholds you set in alarm rules so that you can quickly handle exceptions.

Rapid scale-out

After setting alarm rules for metrics such as bandwidth, connection count, and disk usage, you can easily learn about the real-time status of cloud services and scale them out in a timely manner based on your service volume requirements.

Site monitoring

CloudMonitor supports eight protocols (namely HTTP (HTTPS), ICMP, TCP, UDP, DNS, POP3, SMTP, and FTP), and can be used to detect the availability, response time, and packet loss rate of your site, allowing you to gain insights into site availability and quickly fix any exceptions that occur.

Custom monitoring

CloudMonitor supports the creation of custom metrics, which allow you to target specific monitoring requirements. After these new metrics are created and corresponding data is uploaded, exceptions based on these metrics will be quickly reported as alarm notifications.