

Elastic MapReduce

Announcements

Product Documentation



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Background

Elastic MapReduce upgraded its server and component service monitoring items on September 10, 2019. A new policy type "Elastic MapReduce" has been added, which covers hundreds of monitoring metrics. You can configure alarm policies under the [Elastic MapReduce](#) policy type in Cloud Monitor. **The original policy type "EMR" was deprecated at 23:00 on March 30, 2021, and all the configured "EMR" alarm policies were invalidated.** To add new alarm policies, configure under the "Elastic MapReduce" policy type.

Comparison of "EMR" and "Elastic MapReduce" policy types:

Policy Type	Metric Coverage	Support and Maintenance
EMR	Cluster alarming (12 metrics) Node alarming (8 metrics)	It was deprecated at 23:00 on April 9, 2021 and no longer maintained.
Elastic MapReduce	Server monitoring Service monitoring Cluster monitoring	It was released on September 10, 2019 but is still maintained.

Note:

The "Elastic MapReduce" policy type covers all the metrics of the "EMR" policy type. For details, see [Comparison of new and original metrics](#).

Alarm policy transfer

After the "EMR" policy type was deprecated, the system automatically migrated existing alarm policies under the "EMR" policy type to the "Elastic MapReduce" policy type. See further notifications for specific rules and verification methods.

Note:

A few users might need to migrate them manually.

Steps for manual migration are as follows:

1. Sort out exiting alarm metrics and policies.

Log in to the [Cloud Monitor console](#), select **Alarm Management > Alarm Configuration > Alarm Policy** on the left

sidebar, click **Advanced Filter**, select any sub-type of the "EMR" policy type in **Policy Type**, search for related alarm policies, and download them. Repeat this step to download the alarm policies under other sub-types of the "EMR" policy type.

Alarm Policy
[New Version Guide](#)

Starting November 15, 2022, the alarm policy type "TencentDB/Redis/Memory Edition (1-Minute Granularity)" will be disused and automatic Edition (5-Second Granularity)" in a gradual manner, so that you can enjoy more accurate and timely monitoring and alarming services. You can receive the latest information in the Message Center.

Create
Delete
More ▾
Advanced Filter
Separate keywords with "|"

Monitoring Type	Select monitoring type ▾	Policy Type	Select a monitoring type first ▾	Alarm
User Group	User ▾ Please select ▾	Default Policy Filter	Please select ▾	Detec

Query

2. Configure alarm policies.

Click **Alarm Configuration** in the cluster list to go to the **Alarm Policy** page, click **Create**, select **Elastic MapReduce** in **Policy Type**, and configure an alarm policy according to one of the policies sorted out and downloaded in step 1. Repeat this step to configure other alarm policies. For more information on the configuration method, see [Alarm Configurations](#).

3. Verify the new alarm policies.

Verify that the "Elastic MapReduce" alarm policies are activated and can successfully trigger alarms. Set trigger thresholds in **Metric Alarm**, set recipient groups or recipients, and select receiving channels (email, SMS, or WeChat) for verification. Take `memory zone percentage_50` as an example: when the statistical period is five minutes, and the percentage is greater than or equal to 1% and lasts for five minutes, an alarm will be triggered once every five minutes.

4. Delete original alarm policies.

After verifying the new alarm policies, delete the original alarm policies configured under the "EMR" policy type. Select any sub-type of the "EMR" policy type in **Policy Type**, search for related alarm policies, and delete them. Repeat this step to delete the alarm policies under other sub-types of the "EMR" policy type.

If you encounter any issues during the transfer, [contact us](#) for assistance.

Comparison of new and original metrics

Original Policy Type	Metric/Event Alarm	Original Metric/Event Name	New Policy Type	New Metric/Event Name
EMR-cluster alarm	Metric alarm	Used HDFS storage space	Elastic MapReduce-HDFS-overview	Cluster storage capacity_CapacityUsed
	Metric alarm	HDFS storage utilization	Elastic MapReduce-HDFS-overview	HDFS storage space utilization_capacityused
	Metric alarm	YARN app blocks	Elastic MapReduce-YARN-overview	Applications_pending
	Metric alarm	Failed YARN apps	Elastic MapReduce-YARN-overview	Applications_failed
	Metric alarm	Assigned cluster CPU cores	Elastic MapReduce-YARN-overview	Cores_allocatedVirtualCores
	Metric alarm	Cluster CPU utilization	Elastic MapReduce-YARN-overview	CPU utilization_usageRatio
	Metric alarm	Available cluster memory	Elastic MapReduce-YARN-overview	Memory_availableMB
	Metric alarm	Cluster memory utilization	Elastic MapReduce-YARN-overview	Memory utilization_usageRatio
	Metric alarm	Cluster container blocks	Elastic MapReduce-YARN-overview	Containers_containersPending
	Metric alarm	HBase requests	Elastic MapReduce-HBASE-overview	Total cluster requests_clusterRequests
	Metric alarm	Time taken for HBase sync	No longer maintained	-
	Metric alarm	HBase sync log length	No longer maintained	-
	Event alarm	Node monitoring heartbeat missing	Elastic MapReduce-server monitoring-network	Node monitoring heartbeat missing
	Event alarm	Process restart	Elastic MapReduce-server monitoring-process	Process OOM

EMR-node alarm	Metric alarm	Disk utilization	Elastic MapReduce-server monitoring-disk	Disk capacity utilization_used_all
	Metric alarm	Memory usage	Elastic MapReduce-server monitoring-memory	Memory usage_MemFree
	Metric alarm	Server restart	No longer maintained	Server restart
	Metric alarm	Memory utilization	Elastic MapReduce-server monitoring-memory	Memory utilization_used_percent
	Metric alarm	CPU usage	Elastic MapReduce-server monitoring-CPU	CPU utilization_idle
	Metric alarm	Inbound packets over private networks	No longer maintained	-
	Metric alarm	Outbound packets over private networks	No longer maintained	-
	Metric alarm	TCP connections	Elastic MapReduce-server monitoring-network	TCP connections