Distributed Message Service for RabbitMQ

Bulletin

Issue 01

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HUAWEI

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1 Product Bulletin

1.1 [Notice] DMS for RabbitMQ Will Discontinue the Delayed Message Plug-in

Huawei Cloud will discontinue the delayed message plug-in **rabbitmq_delayed_message_exchange** of Distributed Message Service (DMS) for RabbitMQ on Jan 15, 2024 00:00 (GMT+08:00).

Affected Regions

All regions

Reason

If the delayed message plug-in is enabled for an instance, delayed messages may accumulate and raise the following risks:

- The delayed messages are stored in the Mnesia memory database. If many messages (from 10 thousands to millions) are stacked, the high watermark of the memory may block message production. For details, see **Limitations**.
- The more stacked delayed messages, the longer DMS takes to start a RabbitMQ node. In this case, services may not be restored in time after a node restarts.
- Delayed messages are stored in single replicas. If a replica is restarted, delayed messages on it cannot be consumed.

Mitigation

For instances with the delayed message plug-in enabled, configure memory usage alarms for every node. For example, set the alarm threshold to 30% if the high watermark is triggered when the memory usage reaches 40%. If an alarm is triggered, increase the broker flavor before the high watermark is reached. If the high watermark is already reached, accelerate message consumption.

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Alternative

- If your RabbitMQ instances have not enabled the delayed message plug-in and you need to use the function, use delayed messages of RabbitMQ AMQP-0-9-1 or scheduled/delayed messages of DMS for RocketMQ instead.
- If your RabbitMQ instances have enabled the delay message plug-in, migrate your services that are using delayed messages to DMS for RabbitMQ AMQP-0-9-1 or DMS for RocketMQ. Then, disable the delayed message plug-in on your RabbitMQ instances. Migrate message consumption first and then the production, so services will not be affected.

Impact

- The delayed message plug-in will no longer be displayed for instances with this plug-in disabled.
- The delayed message plug-in is still available for instances with this plug-in enabled, but will no longer be displayed if you disable it on the console.

If you have any questions, please submit a **service ticket**.

1.2 [Notice] DMS for RabbitMQ Will Discontinue Some Plug-ins

Huawei Cloud will discontinue the following plug-ins of Distributed Message Service (DMS) for RabbitMQ on Feb 05, 2024 00:00 (GMT+08:00).

- rabbitmq_amqp1_0
- rabbitmq_mqtt
- rabbitmq_sharding
- rabbitmq_stomp
- rabbitmq_tracing
- rabbitmq_web_mqtt
- rabbitmq_web_stomp

Affected Regions

All regions

Reason

- If you enable the plug-ins to be discontinued, overload risks arise and can affect service stability.
- The rabbitmq_web_stomp plug-in provides WebSocket connections through temporary queues. The plug-in connections and releases rely on heartbeats. Excess temporary queues and connections cause high memory watermark, resulting in abnormal nodes.

Mitigation

Configure alarms for instances with these plug-ins enabled. For details, see **Setting RabbitMQ Alarm Rules**.

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Alternative

Replace the MQTT plug-in with **IoT Device Access**.

Impact

- These plug-ins will no longer be displayed for instances with them disabled.
- These plug-ins are still available for instances with these plug-ins enabled, but will no longer be displayed if you disable them on the console.

If you have any questions, please submit a **service ticket**.

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2 Vulnerability Notice

2.1 Vulnerability Fixing Policies

Vulnerability Fixing SLA

- High-risk vulnerabilities

  Distributed Message Service (DMS) for RabbitMQ fixes vulnerabilities within one month after the RabbitMQ community detects them and releases fixing solutions. The fixing policies are the same as those of the community.

  An emergent OS vulnerability will be released in line with the related policies and process. A fix will be provided in about one month. You can fix the vulnerability on your own.

- Other vulnerabilities

  Upgrade versions to fix other vulnerabilities.

Fixing Statement

To prevent customers from being exposed to unexpected risks, DMS for RabbitMQ does not provide other information about vulnerabilities except the vulnerability background, details, technical analysis, affected functions/versions/scenarios, solutions, and reference information.

In addition, DMS for RabbitMQ provides the same information for all customers to protect all customers equally. DMS for RabbitMQ will not notify individual customers in advance.

DMS for RabbitMQ does not develop or release intrusive code (or code for verification) to exploit vulnerabilities.

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3 Version Notes

3.1 Version Support Notes

Description

The version number of DMS for RabbitMQ is in format **message engine x.y.z**. The message engine is RabbitMQ. **Figure 3-1** describes a RabbitMQ version.

Figure 3-1 Version number sample

Supported Versions

3.8.35 and AMQP-0-9-1

Version Lifecycle

Table 3-1 lists the lifecycle of DMS for RabbitMQ versions.

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Table 3-1 Version lifecycle

Message Engine	Version	Status	Commercial Release	EOM	EOS
RabbitMQ	3.7.17	EOM	October 2019	October 2022	September 2025
	3.8.35	On sale	September 2022	N/A	N/A
	AMQP-0-9-1	On sale	October 2024	N/A	N/A

NOTE

- EOM: End of marketing.
- EOS: End of service & support. It is recommended that you use the latest message engine. No technical support services will be provided for this version after this date.

3.2 Release Notes

Table 3-2 lists the new and optimized features of DMS for RabbitMQ compared with open-source RabbitMQ.

Table 3-2 Release notes

Version	Release Date	New/Optimized Feature
3.8.35	February 2023	Broker flavor increase/decrease
3.8.35	December 2022	Virtual host management on the console
3.8.35	September 2022	Single active consumer and quorum queue

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