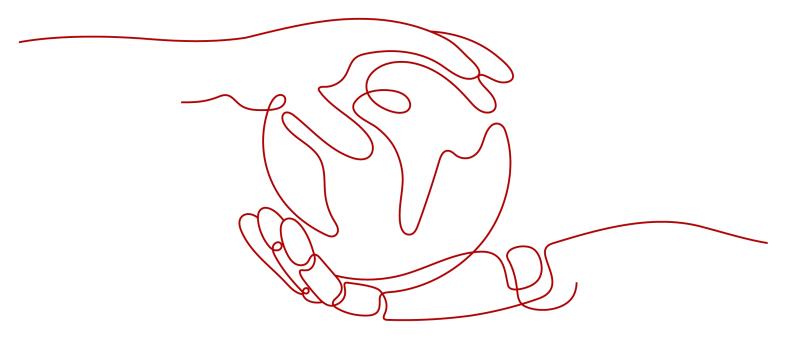
Distributed Message Service for RocketMQ

FAQs

Issue 01

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1 Instance FAQs

1.1 Which RocketMQ Versions Are RocketMQ Instances Compatible with?

RocketMQ instances are compatible with open-source RocketMQ 4.8.0 and 5.x. 4.9.5 and later clients are recommended.

1.2 How Is Instance Reliability Ensured?

RocketMQ instance reliability is ensured through:

- Data storage in one master and two slaves
- Cross-AZ deployment

1.3 Why Can't I Select Two AZs When Purchasing a RocketMQ 4.8.0 Instance?

To improve the reliability of a RocketMQ 4.8.0 instance, you are advised to select three AZs or more when creating the instance. An instance deployed across two AZs may become unavailable when one of the AZs is faulty.

1.4 Can I Change the SSL Configuration of a RocketMQ Instance?

The SSL configuration can be changed. For details, see **Configuring SSL of a RocketMQ Instance**.

1.5 Does the Disk Type Affect the RocketMQ Instance Performance?

About Message Production

RocketMQ persists received messages on disks and the message production throughput varies with the disk type. Higher disk throughput is more friendly to performant message production. When the disk performance is used up, disk access latency increases, causing higher message production request latency or even failure.

About Message Consumption

RocketMQ serially flushes messages to disks. A new message is stored in memory first, from which consumers start to consume the latest message.

In other cases, RocketMQ reads history messages from the disk and saves them to memory, that is, cold reads. Many cold reads consume many I/O resources, approaching the disk performance threshold. Message pulling may be slower or fail, causing the consumption rate to decrease.

Avoid using DMS for RocketMQ simultaneously in cold read-sensitive scenarios. For example, resetting the consumer offset of a consumer group in batches or consuming messages from an earlier offset when services are provisioned in batches. In production environments, ultra-high I/o and higher disks are recommended to avoid service exceptions caused by I/O bottlenecks.

2 Connection FAQs

2.1 Does RocketMQ Allow Self-built Brokers to Be Connected to NameServers on the Cloud?

No. If a self-built broker is connected to the NameServer on the cloud, management plane functions are affected. As a result, topics cannot be queried.

2.2 How Do I Handle Instance Connection Failure "RemotingTooMuchRequestException: sendDefaultImpl call timeout"

Symptom

Connecting to a RocketMQ instance failed. The error message is "RemotingTooMuchRequestException: sendDefaultImpl call timeout".

Possible Cause

The security group does not allow the service port.

Solution

- 1. On the instance details page of the RocketMQ console, view the port next to **Allow Access To** in the **Network** area.
- 2. Click the security group name to view details.
- 3. Add an inbound rule to allow the port obtained in 1.

3 Topic FAQs

3.1 How Many Topics Are Supported?

As shown in **Table 3-1**, **Table 3-2**, and **Table 3-3**, the number of topics supported varies depending on the instance flavor.

Table 3-1 Instance flavors (DMS for RocketMQ 4.8.0)

Flavor	Broke rs	Storage Space (GB per Broker)	TPS per Broker	Max. Topics per Broker	Max. Consumer Groups per Broker
rocketmq.4u8 g.cluster.small	1–10	300-30,000	15,000	2,000	2,000
rocketmq.4u8 g.cluster	1–10	300-60,000	20,000	4,000	4,000
rocketmq.8u1 6g.cluster	1–10	300-90,000	25,000	8,000	8,000
rocketmq.12u 24g.cluster	1–10	300-90,000	28,000	12,000	12,000
rocketmq.16u 32g.cluster	1–10	300-90,000	30,000	16,000	16,000

Table 3-2 Instance flavors (DMS for RocketMQ 5.x basic edition single-node)

Flavor	Storage Space (GB)	TPS	Max. Topics	Max. Consumer Groups
rocketmq.b1.lar ge.1	100–30,000	500	50	500

Flavor	Storage Space (GB)	TPS	Max. Topics	Max. Consumer Groups
rocketmq.b2.lar ge.4	200–60,000	2,000	100	1000
rocketmq.b2.lar ge.8	200–60,000	4,000	100	1000
rocketmq.b2.lar ge.12	200-60,000	6,000	100	1000

Table 3-3 Instance flavors (DMS for RocketMQ 5.x basic edition cluster)

3.2 Is Automatic Topic Creation Supported?

No. RocketMQ does not support automatic topic creation.

3.3 What Are Topic Naming Rules?

A topic name must be unique and meet the following requirements

- Contains 3 to 64 characters.
- Contains only letters, digits, percent signs (%), vertical bars (|), hyphens (-), and underscores (_).
- Cannot start with **rmq_sys_**.
- Cannot be the same as the following strings:
 - TBW102
 - SCHEDULE TOPIC XXXX
 - BenchmarkTest
 - RMQ_SYS_TRANS_HALF_TOPIC
 - RMQ_SYS_TRACE_TOPIC
 - RMQ_SYS_TRANS_OP_HALF_TOPIC
 - TRANS_CHECK_MAX_TIME_TOPIC
 - SELF_TEST_TOPIC
 - OFFSET_MOVED_EVENT
 - rmq_sys_offset_commit_event

4 Consumer Group FAQs

4.1 How Many Consumer Groups Are Supported?

As shown in **Table 4-1**, **Table 4-2**, **Table 4-3**, the number of consumer groups supported varies depending on the instance flavor.

Table 4-1 Instance flavors (DMS for RocketMQ 4.8.0)

Flavor	Broke rs	Storage Space (GB per Broker)	TPS per Broker	Max. Topics per Broker	Max. Consumer Groups per Broker
rocketmq.4u8 g.cluster.small	1–10	300-30,000	15,000	2,000	2,000
rocketmq.4u8 g.cluster	1–10	300-60,000	20,000	4,000	4,000
rocketmq.8u1 6g.cluster	1–10	300-90,000	25,000	8,000	8,000
rocketmq.12u 24g.cluster	1–10	300-90,000	28,000	12,000	12,000
rocketmq.16u 32g.cluster	1–10	300-90,000	30,000	16,000	16,000

Table 4-2 Instance flavors (DMS for RocketMQ 5.x basic edition single-node)

Flavor	Storage Space (GB)	TPS	Max. Topics	Max. Consumer Groups
rocketmq.b1.lar ge.1	100–30,000	500	50	500

Table 4-3 Instance flavors (DMS for RocketMQ 5.x basic edition cluster)

Flavor	Storage Space (GB)	TPS	Max. Topics	Max. Consumer Groups
rocketmq.b2.lar ge.4	200–60,000	2,000	100	1000
rocketmq.b2.lar ge.8	200–60,000	4,000	100	1000
rocketmq.b2.lar ge.12	200–60,000	6,000	100	1000

5 Message FAQs

5.1 What Is the Message Retention Period of RocketMQ? Can I Modify It?

The message retention period for RocketMQ instances is 48 hours by default and the upper limit is 720 hours. For details about how to change message retention period, see **Changing Message Aging Period**.

5.2 What Is the Maximum Message Size Supported RocketMQ? Can I Modify It?

The maximum message size supported by RocketMQ is 4 MB. This limit cannot be modified.

5.3 What Is the Replication Mode of RocketMQ? Can I Modify It?

A RocketMQ message is stored on three replicas, one master and two slaves. This mode cannot be modified.

5.4 Where Is Message Creation Time Set?

The message creation time is set by the producer during message production.

6 Monitoring & Alarms

6.1 Why Can't I View Topic Monitoring Data?

A percent (%) or vertical bar (|) contained in a topic name will be converted to an underscore (_) by Cloud Eye. For example, if a topic name is **test%01**, it will be displayed as **test_01** on Cloud Eye.