Alibaba Cloud

Alibaba Cloud Message Queue
Product Updates

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Document conventions

Style	Description	Example
⚠ Danger	A danger notice 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.
🔔 Warning	A warning notice 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 restart an instance.
🔊 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	🔊 **Notice:** If the weight is set to 0, the server no longer receives new requests.
⑦ Note	A note indicates supplemental instructions, best practices, tips, and other content.	⑦ **Note:** You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click **Settings> Network> Set network type**.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click **OK**.
Courier font	Courier font is used for commands	Run the `cd /d C:/window` command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	`bae log list --instanceid` *Instance_ID*
[] or [a|b]	This format is used for an optional value, where only one item can be selected.	`ipconfig [-all|-t]`
{} or {a|b}	This format is used for a required value, where only one item can be selected.	`switch {active|stand}`

Table of Contents

1.Release notes

This topic describes the release notes for

Message Queue for Apache RocketMQ

. The following information about each release is provided: new features, optimized features, and fixed issues. This topic also provides links to topics related to each release. This helps you understand the updates of

Message Queue for Apache RocketMQ

.

2021-10-12

Feature	Description	Type	References
Migration of open source RocketMQ to the cloud	Open source RocketMQ clusters can be migrated to the cloud. You can create a migration task in the Message Queue for Apache RocketMQ console and import your cluster metadata to an Alibaba Cloud Message Queue for Apache RocketMQ instance.	New	- Overview - Step 1: Create a migration task - Step 2: Evaluate whether migration conditions are met - Step 3: Migrate the metadata - Step 4: Migrate the messaging service
Message tracing	The graphical user interface (GUI) in the console is improved, delivering a better user experience when users query message tracing results.	Optimized	Query a message trace

2021-08-24

Feature	Description	Type	References

Feature	Description	Type	References
Commercial edition of the TCP client SDK for Java ons-client 1.8.8.1.Final	• The issue that occurs during retries for ordered messages is fixed. • The following issue is fixed: When Message Queue for Apache RocketMQ retries to send a message that fails to be consumed in specific scenarios, the service replicates the message and sends the replicates.	Optimized	Release notes for the SDK for Java

2021-08-18

Feature	Description	Type	References
Naming conventions for group IDs and topic names	• The limits on the length and naming requirements of a group ID have changed. A group ID must be 2 to 64 characters in length, and it no longer needs to start with CID or GID. • A group ID cannot be the same as a topic name.	Optimized	• Manage groups • Manage topics • OnsGroupCreate • OnsTopicCreate

2021-07-08

Feature	Description	Type	References
Streamlined process of the upgrade from Standard Edition to Enterprise Platinum Edition	An instance can be upgraded from the Standard Edition to the Enterprise Platinum Edition through a few clicks. You do not need to separately purchase an Enterprise Platinum Edition instance.	Optimized	Upgrade an instance from the Standard Edition to the Enterprise Platinum Edition

2021-04-02

Feature	Description	Type	References
Commercial edition of the TCP client SDK for Java ons-client 1.8.8.Final	• The heartbeat sending logic is optimized. • The issue is fixed where the SDK overuses the memory. • The issue is fixed where a message is sent back if the consumption fails. • The issue is fixed where the message cache limit for topics does not take effect.	Optimized	Release notes for the SDK for Java

2021-03-31

Feature	Description	Type	References
Commercial edition of the TCP client SDK for .NET 2.0.1	• The *Quick Start* document is modified and tips on how to use the x64 library are added. • The compatibility problem with the Message Queue for Apache RocketMQ API is fixed and the bugs in the Message#setBody(byte[] body, int size) method are fixed.	Optimized	Release notes

2021-03-24

Feature	Description	Type	References
Commercial edition of the TCP client SDK for .NET 2.0.0	• Features are aligned with SDK for Java, SDK for C, and SDK for C++ by using GraalVM. • The stability problem with shared libraries is fixed.	New	Release notes

2021-03-16

Feature	Description	Type	References
Optimized operations for released Enterprise Platinum Edition instances	After an Enterprise Platinum Edition instance is released, the instance can be deleted together with its resources or be changed to a Standard Edition instance. You can configure how to deal with a released instance in the console.	Optimized	Operations on Enterprise Platinum Edition instances

2021-02-22

Feature	Description	Type	References
Cross-account authorization for Elastic Compute Service (ECS) instances by configuring Resource Access Management (RAM) roles	Cross-account permissions can be granted to ECS instances by configuring RAM roles for the instances.	New	Grant permissions across Alibaba Cloud accounts by using a RAM role

2021-02-08

Feature	Description	Type	References
Private endpoints for the Message Queue for Apache RocketMQ API	Access to the Message Queue for Apache RocketMQ API by using private endpoints is supported. Different private endpoints are provided for different regions.	New	Endpoints

Feature	Description	Type	References
SDK for Java ons-client 1.8.7.4.Final	• The issue is fixed where the consumption of ordered messages is delayed in special scenarios. ⑦ **Note** If you use SDK for Java v1.8.7.1.Final or later to consume ordered messages, we recommend that you update the SDK client to the latest version. • The issue is fixed where ports are occupied for liveness detection at the message sender.	Optimized	Release notes for the SDK for Java

2021-01-05

Feature	Description	Type	References
SDK for Java ons-client 1.8.7.3.Final	The batch consumption feature is supported by TCP client SDK for Java.	New	• Batch consumption • Release notes for the SDK for Java • Methods and parameters • Subscribe to messages
	Ordered messages are supported by the HTTP client SDK.	New	• Release notes for the HTTP client SDK • Release notes • Release notes • Release notes • Release notes • Release notes • Release notes • Release notes

Feature HTTP client SDK V1.0.3	Description	Type	References
	• The SDK for PHP V1.0.3 is compatible with Guzzle 7. • In SDK for Go V1.0.3, the timeout parameter is available, and the requestId parameter is added to the responses when messages are sent or received.	Optimized	Release notes for the HTTP client SDK

2020-11-26

Feature	Description	Type	References
SDK for C and C++ ons-cpp v2.1.1	The following issue is fixed: The heap for the embedded Substrate VM (SVM) consumes a large amount of memory during runtime.	Optimized	Release notes for the SDKs for C and C++

2020-11-20

Feature	Description	Type	References
New version of the console	The Message Queue for Apache RocketMQ console is updated to improve user experience.	Optimized	• Quick Start • Console Guide

2020-09-29

Feature	Description	Type	References
Service activation through an API operation or SDKs	An API operation and SDKs are provided to activate Message Queue for Apache RocketMQ .	New	• OpenOnsService • Obtain SDKs

2020-08-20

Feature	Description	Type	References
Service-linked roles	Message Queue for Apache RocketMQ is allowed to access CloudMonitor by using a service-linked role to implement the monitoring and alerting feature.	New	• Service linked role for • Monitoring and alerting

2020-07-09

Feature	Description	Type	References
SDK for Java ons-client 1.8.7.1.Final	• The Ordered Message 2.0 feature is added for Enterprise Platinum Edition instances. • The message delivery retry feature is optimized.	New	Release notes for the SDK for Java
API operations for tag management	API operations are provided to manage tags.	New	API operations for tag management

2020-07-03

Feature	Description	Type	References
Resource tags	Tags can be attached to instances, topics, and group IDs. Tags help you to better manage resources.	New	• Manage tags in the console • API operations for tag management

2020-05-10

Feature	Description	Type	References
Pull consumers	The TCP client SDK for Java supports pull consumers.	New	• Terms • Release notes for the SDK for Java • Methods and parameters • Subscribe to messages

2.Updates

On January 23, 2019, resource isolation, resource application, TCP and HTTP support, and permission management of

Message Queue for Apache RocketMQ

were optimized. This topic describes updates to facilitate your use of

Message Queue for Apache RocketMQ

.

> ⑦ **Note**   To be compatible with the new and old resource configurations, we recommend that you upgrade your ons-client to the latest version.

Optimization of resource isolation (instance support)

Message Queue for Apache RocketMQ

provides instances for multi-tenancy isolation. Each user can purchase multiple instances in the same region and isolate the instances from each other logically or physically.

Message Queue for Apache RocketMQ

provides the following two types of instances:

- Standard Edition: Instances are logically isolated. A maximum of eight instances can be created in a region.

- Enterprise Platinum Edition: Instances are physically isolated. The number of instances that can be created in a region is not limited. For more information, see

  Message Queue for Apache RocketMQ

  Enterprise Platinum Edition.

To be compatible with the existing resources of existing users,

Message Queue for Apache RocketMQ

instances provide the following two types of namespaces:

- Default instances, which are compatible with the existing resources of existing users:
  - This type of instance has no separate namespace. The resource name must be globally unique both inside and outside the instance.
  - By default, an instance with no separate namespace is automatically generated for the existing resources of

    Message Queue for Apache RocketMQ

    users in the region where the resources reside.

- You can configure the endpoint, which can be obtained on the **Instances** page in the Message Queue for Apache RocketMQ console:

  ```
  // Recommended configuration:
  properties.put(PropertyKeyConst.NAMESRV_ADDR, "xxxx");
  // Compatible configuration (not recommended. We recommend that you upgrade this configuration
  to the recommended configuration):
  properties.put(PropertyKeyConst.ONSAddr, "xxxx");
  ```

- New instances:
  - A new instance has a separate namespace. The resource name must be unique within the instance, but can be the same as those in other instances.
  - You can configure the endpoint, which can be obtained on the **Instances** page in the Message Queue for Apache RocketMQ console:

    ```
    // Recommended configuration:
    properties.put(PropertyKeyConst.NAMESRV_ADDR, "xxx");
    ```

  - ons-client must be upgraded to the following latest versions for different languages:
    - JAVA: ons-client v1.8.4.Final
    - C++: ons-cpp v2.0.0
    - .NET: ons-.net v1.1.4

Optimization of resource application process

Originally,

Message Queue for Apache RocketMQ

had three types of resources:

- Topic
- Producer ID
- Consumer ID

Every two of the three resources are in N:N mapping. Each time a topic is created, it must be associated with a producer ID and a consumer ID. The process is too complex for medium- and large-sized enterprise customers.

To optimize the user experience and reduce the access threshold for new users, the resource application process has been simplified.

- The resource application process has been optimized in the following two aspects:
  - Topic management (unchanged):

    You must apply for a topic. A topic is the first-level identifier for classifying messages.

- ○ Group management:

    - You no longer need to apply for a producer ID. Producer IDs and consumer IDs are integrated into group IDs. In the Message Queue for Apache RocketMQ console, the **producers** module has been removed. The producers and **consumers** modules have been integrated into the **groups** module.

    - You do not need to associate the applied producer ID or consumer ID with a topic anymore. Instead, you only need to apply for a group ID and associate it with a topic directly in the code.

    - Compatibility:

        - The original list of producer IDs is not displayed, which does not affect the current service.

        - The consumer IDs starting with "CID-" or "CID_" that you have applied for can still be used and can be set in the `PropertyKeyConst.ConsumerId` or `PropertyKeyConst.GROUP_ID` parameter of the code.

- Existing producer IDs or consumer IDs can still be used and the current service is not affected. However, we recommend that you upgrade your instance configuration to the recommended configuration.

    - ○ Recommended configuration: Integrate producer IDs and consumer IDs into group IDs.

      ```
      // Set PropertyKeyConst.GROUP_ID. The original PropertyKeyConst.ProducerId and PropertyKeyConst.ConsumerId are deprecated.
      properties.put(PropertyKeyConst.GROUP_ID, "the original CID-XXX or GID-XXX");
      ```

    - ○ Compatible configuration: Use the producer ID to identify a producer and the consumer ID to identify a consumer.

      ```
      // When a producer is created, you must configure PropertyKeyConst.ProducerId.
      properties.put(PropertyKeyConst.ProducerId, "the original PID-XXX or GID-XXX");
      // When a consumer is created, you must configure PropertyKeyConst.ConsumerId.
      properties.put(PropertyKeyConst.ConsumerId, "the original CID-XXX or GID-XXX");
      ```

Message Queue for Apache RocketMQ

Standard Edition supports HTTP and RESTful, making it easy to use, fast to access, and powerful in cross-network access. Additionally, it supports clients developed in seven programming languages. For more information, see SDK guide (HTTP).

Migration of RAM authorization policies

Based on the centralized management requirements of Alibaba Cloud RAM, the Alibaba Cloud account and RAM user authorization feature of

Message Queue for Apache RocketMQ

will be deprecated on April 2, 2019. We recommend that you migrate the permission configurations of your accounts as soon as possible.

- We recommend that you configure RAM policies as soon as possible. For more information, see Grant permissions to RAM users.

- Resources that have been authorized are not affected and the service can still be used. However, we recommend that you go to the RAM console for configuration and management.