Red Hat AMQ 7.3

AMQ Streams 1.2 on OpenShift Container Platform Release Notes

Release Notes for AMQ Streams 1.2

Last Updated: 2019-07-04

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Legal Notice

Abstract

These release notes contain the latest information about new features, enhancements, fixes, and issues contained in the AMQ Streams 1.2 release.

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CHAPTER 1. FEATURES

The features added in this release, and that were not in previous releases of AMQ Streams, are outlined below.

1.1. KAFKA 2.2.1 SUPPORT

AMQ Streams now supports Kafka 2.2.1.

You must upgrade the Cluster Operator to 1.2 before you can upgrade to Kafka 2.2.1. For instructions, see AMQ Streams and Kafka upgrades .

After you have performed an upgrade, custom resources that use **kafka.strimzi.io/v1alpha1** must be updated as the API version is deprecated.

Refer to the Kafka 2.2.0 and Kafka 2.2.1 Release Notes for additional information.

NOTE

Kafka 2.1.x is supported only for upgrade purposes.

1.2. OPENSHIFT CONTAINER PLATFORM 3.11 AND 4.X SUPPORT

As a requirement for the new features, AMQ Streams now supports OpenShift Container Platform 3.11 and 4.x.

OpenShift Container Platform 3.9 and 3.10 is no longer supported.

AMQ Streams can be installed on OpenShift 4.x:

- Manually using AMQ Streams YAML files
- Through the OpenShift Container Platform Operator Hub

1.3. CUSTOM RESOURCE DEFINITION (CRD) VERSIONS

The YAML files describing the CRDs provided with AMQ Streams now support multiple versions. The change means that there is now support for a schema specific to an API version.

See Custom resources

1.4. ADD OR REMOVE VOLUMES FROM JBOD STORAGE

It is now possible to add or remove volumes from JBOD storage to respond to new requirements for storing data. To make the change, the volumes spec for the **Kafka** resource is edited and updated. Following the update, new topics can be assigned to the disks or existing partitions can be reassigned.

See Removing volumes from JBOD storage

1.5. RESIZE PERSISTENT VOLUMES

To respond to an increased demand for storage, you can now increase the size of the persistent volumes used for the storage of messages and logs in an existing AMQ Streams cluster.

A persistent volume can be resized if:

- Your OpenShift cluster supports persistent volume resizing.
- The persistent volume was created by using a storage class that supports volume expansion.

Persistent volume size is defined in the **size** field in the **spec.kafka.storage** and **spec.zookeeper.storage** properties:

```
apiVersion: kafka.strimzi.io/v1beta1
kind: Kafka
metadata:
  name: my-cluster
spec:
  kafka:
    # ...
    storage:
      type: persistent-claim
      size: 2000Gi
      class: my-storage-class
    # ...
  zookeeper:
    # ...
```

See Resizing persistent volumes

CHAPTER 2. ENHANCEMENTS

The enhancements made to AMQ Streams 1.2.

2.1. CONTAINER IMAGES

This release includes the following changes to the management of container images for AMQ Streams on OpenShift.

2.1.1. New image registry

All AMQ Streams container images are now hosted on the new Red Hat Registry, **registry.redhat.io**. Unlike **registry.access.redhat.com**, the new registry requires authentication for access to container images.

Your OpenShift installation should be already connected and authenticated against the new registry. If it is not authenticated, you can configure your installation according to the OpenShift version:

- If using OpenShift 3.11, see Creating Service Accounts and Authentication Tokens for the Red Hat Registry.
- If using OpenShift 4.1, see Authentication enabled Red Hat registry .

Alternatively, you can create your own OpenShift Secret with the registry credentials, and configure AMQ Streams to use it in the **STRIMZI_IMAGE_PULL_SECRETS** environment variable in the Cluster Operator configuration or through the **imagePullSecrets** property in the **template** of your custom resource.

Additional resources

- Cluster Operator Configuration
- Customizing Pods
- Pulling an Image from a Private Registry

2.1.2. Reduced number of images

The number of container images for AMQ Streams has been significantly reduced. Four container images are now provided:

AMQ Streams Component	Container Image
Cluster Operator	**registry.redhat.io/amq7/amq-streams-operator:1.2.0**
Kafka version 2.1	**registry.redhat.io/amq7/amq-streams-kafka-2.1:1.2.0**
Kafka version 2.2	**registry.redhat.io/amq7/amq-streams-kafka-2.2:1.2.0**

AMQ Streams Component	Container Image
AMQ Streams Kafka Bridge (Tech Preview)	**registry.redhat.io/amq7/amq-streams-bridge:1.2.0**

Previous releases of AMQ Streams provided separate images, for example, for Kafka Connect. These images have been incorporated into the Cluster Operator and Kafka images.

This release includes a new image for the AMQ Streams Kafka Bridge (as a Technology Preview).

Image	Incorporates
amq-streams-operator	**java-base, cluster-operator, topic-operator, user-operator, kafka-init**
amq-streams-kafka-2.1	**kafka-base, kafka, kafka-connect, kafka-connect-s2i, kafka-mirror-maker, zookeeper, stunnel-base, kafka-stunnel, zookeeper-stunnel, entity-operator-stunnel**
amq-streams-kafka-2.2	**kafka-base, kafka, kafka-connect, kafka-connect-s2i, kafka-mirror-maker, zookeeper, stunnel-base, kafka-stunnel, zookeeper-stunnel, entity-operator-stunnel**
amq-streams-kafka-bridge	New image

NOTE

You can access the AMQ Streams container images in the Red Hat Container Catalog .

CHAPTER 3. TECHNOLOGY PREVIEWS

IMPORTANT

Technology Preview features are not supported with Red Hat production service-level agreements (SLAs) and might not be functionally complete; therefore, Red Hat does not recommend implementing any Technology Preview features in production environments. This Technology Preview feature provides early access to upcoming product innovations, enabling you to test functionality and provide feedback during the development process. For more information about support scope, see Technology Preview Features Support Scope.

3.1. AMQ STREAMS KAFKA BRIDGE

The AMQ Streams Kafka Bridge provides a RESTful interface to AMQ Streams, offering the advantages of a web API that is easy to use and connect with AMQ Streams without the need to interpret the Kafka protocol.

The HTTP Bridge supports HTTP producer and consumer requests to:

- Produce records
- Consume records
- Create consumers
- Delete consumers
- Retrieve data from topics and partitions
- Commit offsets to partitions and topics

The methods provide JSON responses and HTTP response code error handling.

NOTE

AMQP is not currently supported, even for Technology Preview.

See Using the AMQ Streams Kafka Bridge

3.2. STATUS PROPERTY FOR A CUSTOM RESOURCE

The new **status** property for a AMQ Streams-specific custom resource publishes the *current* state of the resource to users and tools that need the information.

See AMQ Streams custom resource status

CHAPTER 4. DEPRECATED FEATURES

The features deprecated in this release, and that were supported in previous releases of AMQ Streams, are outlined below.

4.1. API VERSION V1ALPHA1

API version **v1alpha1** has been deprecated for this release of AMQ Streams.

Custom resources that use **kafka.strimzi.io/v1alpha1** must be updated to use **kafka.strimzi.io/v1beta1**.

See AMQ Streams resource upgrades

CHAPTER 5. FIXED ISSUES

The following table lists the issues fixed in AMQ Streams 1.2.

Issue Number	Description
ENTMQST-1049	KubernetesClientException when upgrading Strimzi from 0.11.4 to 0.12.0-rc1
ENTMQST-998	Fix problem with 0 validity in UO when custom CA is used
ENTMQST-995	Auto-generated passwords starting with digit prevent the password from being tokenized
ENTMQST-963	TO loop receiving MODIFIED events and creating znodes
ENTMQST-934	ClusterOperator not honouring jvmOptions for Kafkamirror CR
ENTMQST-865	User external listener overrides without specifying node ports triggers NPE and breaks reconciliation
ENTMQST-859	Parsing or memory limits and requests is failing for some numbers
ENTMQST-826	An error during deploying Kafka cluster in another namespace than CO
ENTMQST-789	ZK rolling update throws strange errors in case of disaster during rolling update
ENTMQST-785	Make sure Kafka pods can do things such as rebuilding indexes at startup
ENTMQST-754	Storage type changes not handled properly when accompanied with other changes
ENTMQST-709	Cluster Operator fails to start – can't parse certificate
ENTMQST-224	Unhandled exception during scale down zookeeper instances

CHAPTER 6. KNOWN ISSUES

There are no known issues for AMQ Streams 1.2.

CHAPTER 7. IMPORTANT LINKS

- Red Hat AMQ 7 Supported Configurations
- Red Hat AMQ 7 Component Details

Revised on 2019-07-04 10:22:12 UTC