



Red Hat build of Apicurio Registry 2.6

Release Notes for Apicurio Registry 2.6

What's new in Red Hat build of Apicurio Registry

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Abstract

Describes the Red Hat build of Apicurio Registry product and provides the latest details on what's new in this release.

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PREFACE

PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

We appreciate your feedback on our documentation.

To propose improvements, open a Jira issue and describe your suggested changes. Provide as much detail as possible to enable us to address your request quickly.

Prerequisite

- You have a Red Hat Customer Portal account. This account enables you to log in to the Red Hat Jira Software instance.
If you do not have an account, you will be prompted to create one.

Procedure

1. Click the following link: [Create issue](#).
2. In the **Summary** text box, enter a brief description of the issue.
3. In the **Description** text box, provide the following information:
 - The URL of the page where you found the issue.
 - A detailed description of the issue.
You can leave the information in any other fields at their default values.
4. Click **Create** to submit the Jira issue to the documentation team.

Thank you for taking the time to provide feedback.

CHAPTER 1. APICURIO REGISTRY 2.6 RELEASE NOTES

Red Hat build of Apicurio Registry is a data store for standard event schemas and API designs, and is based on the [Apicurio Registry](#) open source community project.

You can use Apicurio Registry to manage and share the structure of your data using a web console, REST API, Maven plug-in, or Java client. For example, client applications can dynamically push or pull the latest schema updates to or from Apicurio Registry without needing to redeploy. You can also create optional rules to govern how Apicurio Registry content evolves over time. These rules include validation of content, integrity of artifact references, and backwards or forwards compatibility of schema or API versions.

1.1. APICURIO REGISTRY INSTALLATION OPTIONS

You can install Apicurio Registry on OpenShift with either of the following data storage options:

- PostgreSQL database
- Red Hat AMQ Streams

For more details, see [Installing and deploying Red Hat build of Apicurio Registry on OpenShift](#) .

1.2. APICURIO REGISTRY SUPPORTED PLATFORMS

Apicurio Registry 2.6 supports the following core platforms:

- Red Hat OpenShift Container Platform: 4.16, 4.15, 4.14, 4.13, 4.12
- Red Hat OpenShift Service on AWS: 4.14
- Microsoft Azure Red Hat OpenShift: 4.14
- PostgreSQL: 15, 14, 13, 12
- Red Hat AMQ Streams: 2.6, 2.5, 2.2
- OpenJDK: 17, 11

For more details, see the following article:

- [Supported Configurations for Red Hat build of Apicurio Registry](#) .

1.2.1. Supported integration with other products

Apicurio Registry 2.6 also supports integration with the following products:

- Red Hat build of Keycloak 24
- Red Hat Single Sign-On (RH-SSO) 7.6
- Red Hat build of Debezium 2.3

1.3. APICURIO REGISTRY NEW FEATURES

Apicurio Registry 2.6 includes the following new features:

Operator metadata versions

With this release, Operator metadata versions match Apicurio Registry release versions. For previous releases, see the following article:

- [Red Hat Integration - Service Registry Operator metadata versions](#).

Support for Red Hat build of Keycloak 24

- Red Hat Single Sign-On (RH-SSO) 7.6 is still supported, however references have changed to the new name: Red Hat build of Keycloak.

Apicurio Registry Maven plug-in improvements

- Automatic detection of references in the Maven plug-in by using the **autoRef** option in the **pom.xml** file. For more details, see [Registry-3439](#). This is a Technology Preview feature.



IMPORTANT

Technology Preview features are not supported with Red Hat production service level agreements (SLAs) and might not be functionally complete. Red Hat does not recommend using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

For more information about the support scope of Red Hat Technology Preview features, see [Technology Preview Features Support Scope](#).

Apicurio Registry user documentation and examples

The documentation library has been updated with the new features available in version 2.6:

- [Installing and deploying Red Hat build of Apicurio Registry on OpenShift](#)
- [Migrating Red Hat build of Apicurio Registry deployments](#)
- [Red Hat build of Apicurio Registry User Guide](#)
- [Apicurio Registry v2 core REST API documentation](#)

The open source demonstration applications are available from:

- <https://github.com/Apicurio/apicurio-registry/tree/2.6.x/examples>

1.4. APICURIO REGISTRY DEPRECATED FEATURES

Apicurio Registry core deprecated features

- *Confluent Schema Registry API version 6 (compatibility API)* : Apicurio Registry currently supports two versions of the Confluent Schema Registry API on separate endpoints: version 6 and version 7. The v6 API endpoint is deprecated, and will be removed in a future release. Ensure that you replace all references to the v6 API endpoint with references to the v7 API endpoint.
- *Apicurio Registry Core API version 1* : Apicurio Registry support for the original version 1 of the Apicurio Registry Core API is now deprecated. This v1 legacy API will be removed in the next major release.

- *Dynamic log level configuration*: The `/admin/loggers` and `/admin/loggers/{logger}` API endpoints are now deprecated in the v2 Apicurio Registry Core API. These endpoints will be removed in a future release.
- *Registry V1 export utility*: Apicurio Registry support for the command-line export utility is now deprecated. The export tool, which is used to export data from Apicurio Registry 1.x into a format that can be imported into 2.x, will no longer be released or maintained. All customers should have already upgraded from 1.x to 2.x.

Apicurio Registry Operator deprecated features

- *JAVA_OPTIONS environment variable*: The **JAVA_OPTIONS** environment variable is no longer the preferred way to configure Java options for Apicurio Registry. You can use the **JAVA_OPTS_APPEND** environment variable instead. The **JAVA_OPTS** environment variable is also available, which replaces the default content of Java options. However, it is best to avoid using **JAVA_OPTS** because it might interfere with some Apicurio Registry Operator functionality.
- *Retention of environment variables for features that are not enabled*: The Apicurio Registry Operator sets environment variables to enable and configure various features, such as Salted Challenge Response Authentication Mechanism (SCRAM) security when using Kafka storage. When such features are disabled, the Operator currently retains the associated environment variables, which can cause problems. Retention of such environment variables is deprecated, and the Operator support for it will be removed. Ensure that your deployment does not rely on the retention of such environment variables.
- *Environment variable precedence*: The Apicurio Registry Operator might attempt to set an environment variable that is already explicitly specified in the **spec.configuration.env** field. If an environment variable has a conflicting value, the value set by the Apicurio Registry Operator takes precedence by default. This behavior will change in the future, to enable users to overwrite most environment variables set by the Operator. Ensure that your deployment does not rely on the original precedence behavior.

Apicurio Registry Operator removed features

- *Setting environment variables by editing the Deployment resource*: This ability was deprecated in previous versions, and has been removed from this release.

1.5. UPGRADING AND MIGRATING APICURIO REGISTRY DEPLOYMENTS

You can upgrade the Apicurio Registry server automatically from Apicurio Registry 2.x to Apicurio Registry 2.6 on OpenShift. There is no automatic upgrade from Apicurio Registry 1.x to Apicurio Registry 2.x, and a migration process is required.

1.5.1. Updating 2.x client dependencies

It is not mandatory to update client dependencies for this release. Existing Apicurio Registry 2.x client applications continue to work with Apicurio Registry 2.6.

However, before the next release of Apicurio Registry, you must update all of your client dependencies to use the latest version of Apicurio Registry. Client dependencies include dependencies for the Apicurio Registry Kafka serializers/deserializers (SerDes), Maven plug-in, and Java client applications.

For example, to update the Maven dependencies for a Java client application, specify the version in your **pom.xml** file as follows:

```
<dependency>
  <groupId>io.apicurio</groupId>
  <artifactId>apicurio-registry-client</artifactId>
  <version>2.6.1.Final-redhat-00001</version>
</dependency>
```

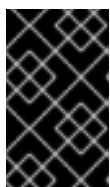
For more details, see [Legacy REST API date formats enabled by default](#) .

1.5.2. Upgrading from Apicurio Registry 2.x on OpenShift

You can upgrade from Apicurio Registry 2.x on OpenShift 4.11 to Apicurio Registry 2.6 on OpenShift 4.12 or later. You must upgrade both your Apicurio Registry and your OpenShift versions, and upgrade OpenShift one minor version at a time.

Prerequisites

- You already have Apicurio Registry 2.x installed on OpenShift 4.11 or later.
- You have backed up your existing Apicurio Registry storage data in your Kafka topic or PostgreSQL database. For more details, see [Installing and deploying Red Hat build of Apicurio Registry on OpenShift](#).



IMPORTANT

In production environments on OpenShift, to help ensure that storage is backed up before upgrading, it is best to set the Operator update approval strategy for Apicurio Registry to manual instead of automatic.

Procedure

1. In the OpenShift Container Platform web console, click **Administration** and then **Cluster Settings**.
2. Click the pencil icon next to the **Channel** field, and select the next minor **candidate** version (for example, change from **stable-4.11** to **candidate-4.12**).
3. Click **Save** and then **Update**, and wait until the upgrade is complete.
4. If the OpenShift version is less than 4.13, repeat steps 2 and 3, and select **candidate-4.13** or later.
5. Click **Operators** > **Installed Operators** > **Red Hat Integration - Service Registry**
6. Ensure that the **Update channel** is set to **2.x**.
7. If the **Update approval** is set to **Automatic**, the upgrade should be approved and installed immediately after the **2.x** channel is set.
8. If the **Update approval** is set to **Manual**, click **Install**.
9. Wait until the Operator is deployed and the Apicurio Registry pod is deployed.
10. Verify that your Apicurio Registry system is up and running.

Additional resources

- For more details on how to set the Operator update channel in the OpenShift Container Platform web console, see [Changing the update channel for an Operator](#).

1.5.3. Migrating from Apicurio Registry 1.1 on OpenShift

For details on migrating from Apicurio Registry 1.1 to Apicurio Registry 2.x, see [Migrating Red Hat build of Apicurio Registry deployments](#).

1.6. APICURIO REGISTRY RESOLVED ISSUES

Table 1.1. Resolved issues in Apicurio Registry 2.6.1

Issue	Description
IPT-1134	After deleting service registry deployment, new deployment does not contain correct values.
IPT-1131	The podTemplateSpecPreview (initContainers) defined in the CR are not propagated to the deployment resource.

1.7. APICURIO REGISTRY RESOLVED CVEs

The following Common Vulnerabilities and Exposures (CVEs) are resolved in Apicurio Registry 2.6:

Table 1.2. CVEs resolved in Apicurio Registry 2.6.1

CVE	Description
CVE-2024-2700	A vulnerability in the Quarkus causes a leak of local configuration properties into Quarkus applications.
CVE-2024-29041	A flaw in the Express.js framework causes malformed URLs to be evaluated.
CVE-2024-29180	A flaw in the webpack-dev-middleware package may lead to file leak.
CVE-2023-51775	A vulnerability in the jose4j library allows a denial of service via specially crafted JWE.
CVE-2024-22201	A vulnerability in the jetty web server can cause the server to stop accepting new connections from valid clients.

1.8. APICURIO REGISTRY KNOWN ISSUES

The following known issues apply in Apicurio Registry 2.6:

Apicurio Registry core known issues

[IPT-1143](#) - Misleading "warning" log message regarding ResultSet resource leak

You might see a message similar to the following in the logs:

```
2024-07-24 08:33:53 WARN <> [io.quarkus.agroal.runtime.AgroalEventLoggingListener] (executor-
thread-3) Datasource '<default>': JDBC resources leaked: 1 ResultSet(s) and 0 Statement(s)
```

This message is incorrect, as no JDBC resources are leaked.

You can safely ignore these messages.

Registry-3413 - Legacy REST API date formats enabled by default

For maximum compatibility and for easier upgrades from older versions of Apicurio Registry, the date format used in the Apicurio Registry REST API is not compliant with OpenAPI standards. This is because of a bug in older versions.

Before the next release of Apicurio Registry, you must upgrade all of your client applications to use the latest Apicurio Registry client version. The next release will fix the date format bug, which will result in older clients no longer being compatible with the REST API.

To update your REST API to be OpenAPI compliant, you can fix the date format bug in *this* version of Apicurio Registry as follows:

1. Update all of your client applications to version **2.6.1.Final-redhat-00001**, as described in [Updating 2.x client dependencies](#).
2. Set the following environment variable to the value shown:

```
REGISTRY_APIS_V2_DATE_FORMAT=yyyy-MM-dd'T'HH:mm:ss'Z'
```

IPT-814 - Apicurio Registry logout feature incompatible with RH-SSO 7.6

In RH-SSO 7.6, the **redirect_uri** parameter used with the logout endpoint is deprecated. For more details, see the [RH-SSO 7.6 Upgrading Guide](#). Because of this deprecation, when Apicurio Registry is secured by using the RH-SSO Operator, clicking the **Logout** button displays the **Invalid parameter: redirect_uri** error.

For a workaround, see <https://access.redhat.com/solutions/6980926>.

IPT-701 - CVE-2022-23221 H2 allows loading custom classes from remote servers through JNDI

When Apicurio Registry data is stored in AMQ Streams, the H2 database console allows remote attackers to execute arbitrary code by using the JDBC URL. Apicurio Registry is not vulnerable by default and a malicious configuration change is required.

Apicurio Registry Operator known issues

Operator-42 - Autogeneration of OpenShift route might use wrong base host value

If multiple **routerCanonicalHostname** values are specified, autogeneration of the Apicurio Registry OpenShift route might use a wrong base host value.

APPENDIX A. USING YOUR SUBSCRIPTION

Apicurio Registry is provided through a software subscription. To manage your subscriptions, access your account at the Red Hat Customer Portal.

Accessing your account

1. Go to access.redhat.com.
2. If you do not already have an account, create one.
3. Log in to your account.

Activating a subscription

1. Go to access.redhat.com.
2. Navigate to **My Subscriptions**.
3. Navigate to **Activate a subscription** and enter your 16-digit activation number.

Downloading ZIP and TAR files

To access ZIP or TAR files, use the customer portal to find the relevant files for download. If you are using RPM packages, this step is not required.

1. Open a browser and log in to the Red Hat Customer Portal **Product Downloads** page at access.redhat.com/downloads.
2. Locate the **Red Hat Integration** entries in the **Integration and Automation** category.
3. Select the desired Apicurio Registry product. The **Software Downloads** page opens.
4. Click the **Download** link for your component.

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