Red Hat OpenStack Platform 16.2

Service Telemetry Framework Release Notes 1.3

Release details for Service Telemetry Framework 1.3

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Abstract

This document outlines the major features, enhancements, and known issues in this release of Service Telemetry Framework.

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MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright's message.

CHAPTER 1. INTRODUCTION TO SERVICE TELEMETRY FRAMEWORK RELEASE

This release of Service Telemetry Framework (STF) provides new features and resolved issues specific to STF.

STF uses components from other Red Hat products. For specific information pertaining to the support of these components, see https://access.redhat.com/site/support/policy/updates/openstack/platform/ and https://access.redhat.com/support/policy/updates/openshift/.

STF 1.3 is compatible with OpenShift Container Platform (OCP) version 4.6 as the deployment platform.

1.1. PRODUCT SUPPORT

The Red Hat Customer Portal offers resources to guide you through the installation and configuration of Service Telemetry Framework. The following types of documentation are available through the Customer Portal:

- Product documentation
- Knowledge base articles and solutions
- Technical briefs
- Support case management
  You can access the Customer Portal at https://access.redhat.com/.

CHAPTER 2. TOP NEW FEATURES

The following features are new to Service Telemetry Framework (STF):

Smart Gateway Operator interface

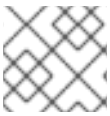
The use of legacy Smart Gateway has been dropped from future versions of STF and a new pluggable architecture has been implemented in the sg-core application. As an administrator, you can use the Smart Gateway Operator to make better use of the sg-core through a more flexible API interface.

CHAPTER 3. SERVICE TELEMETRY FRAMEWORK RELEASE INFORMATION

Notes for updates released during the supported lifecycle of this Service Telemetry Framework (STF) release appear in the advisory text associated with each update.

3.1. SERVICE TELEMETRY FRAMEWORK 1.3

These release notes highlight technology preview items, recommended practices, known issues, and deprecated functionality to be taken into consideration when you install this release of Service Telemetry Framework (STF).



NOTE

Service Telemetry Framework version 1.1 support ended on June 15, 2021.

This release includes the following advisories:

RHEA-2021:2424-01

Release of components for Service Telemetry Framework - RPMs

RHEA-2021:2425-02

Release of components for Service Telemetry Framework - Container Images

RHBA-2021:2478-02

Release of components for Service Telemetry Framework - Container Images

RHBA-2021:2477-02

Release of common components for Service Telemetry Framework - Container Images

RHBA-2021:2442

Service Telemetry Framework version 1.1 support ended on June 15, 2021

3.1.1. Enhancements

This release of STF features the following enhancements:

BZ#1959594

With this update, the Smart Gateway Operator interface can support additional functionality in sg-core. As an administrator, you can use the Smart Gateway Operator to make better use of the sg-core through a more flexible API interface.

3.1.2. Release notes

This section outlines important details about the release, including recommended practices and notable changes to STF. You must take this information into account to ensure the best possible outcomes for your installation.

BZ#1960025

STF 1.3 does not support the infra.watch/v1alpha1 Custom Resource Definition and now supports infra.watch/v1beta1.
In STF 1.2, the infra.watch/v1alpha1 interface was deprecated and the Service Telemetry Operator supported a translation to infra.watch/v1beta1 dynamically. As of STF 1.3, this support has been

removed and only infra.watch/v1beta1 is supported. Ensure that you migrate to infra.watch/v1beta1 before you upgrade from STF 1.2 to STF 1.3.

BZ#1952188

Ceilometer metrics are distributed internally within Red Hat OpenStack Platform (RHOSP) via the RabbitMQ bus, collected via the ceilometer agents, and transported to STF for storage in Prometheus via sg-core.
Before this release, if you set up the RHOSP environment in high-availability mode, each controller collected and sent metrics with a publisher label containing the controller name. As a result, ceilometer metrics that looked broken were written to Prometheus.

This update drops the publisher label on ceilometer metrics to collapse the ceilometer metrics to a single set of labels. As a result, metrics from ceilometer no longer appear to be broken up across multiple publishers.

Previous queries that relied on the publisher label might not work. You can override the default ServiceMonitor object with the **servicemonitorManifest** parameter in the ServiceTelemetry object.

BZ#1954722

You need the **caCertFile** parameter in RHOSP13 to allow connection from RHOSP to STF. To configure RHOSP13 to support the **caCertFile** parameter in THT environment files, see Configuring Red Hat OpenStack Platform overcloud for Service Telemetry Framework in the *Service Telemetry Framework 1.3* guide.

3.1.3. Deprecated functionality

These features have been deprecated:

BZ#1965464

With this release, delivery of alerts through SNMP using prometheus-webhook-snmp is deprecated.

3.1.4. Removed Functionality

The following functionality has been removed from this release of STF:

BZ#1983662

Previously, the use of EnableSTF was part of the OpenStack configuration for STF. In this release, configuration of STF is now done through the base configuration, and use of EnableSTF has been removed. For more information about the base configuration, see https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/16.1/html-single/service_telemetry_framework_1.3/index#creating-the-base-configuration-for-stf_assembly-completing-the-stf-configuration

3.2. SERVICE TELEMETRY FRAMEWORK 1.3.1 MAINTENANCE RELEASE - JULY 19, 2021

These release notes highlight bug fixes and enhancements to be taken into consideration when you install this release of Service Telemetry Framework (STF).

This release includes the following advisories:

RHBA-2021:2771

Release of components for Service Telemetry Framework v1.3.1

3.2.1. Bug fixes

These bugs were fixed in this release of STF:

BZ#1979637

Before this update, Ceilometer metrics exposed by sg-core resulted in virtual machine instances having their ID exposed as a label value **host**. As a result, using the label **host** overloaded the drop-down menu in the dashboards with virtual machine instances in addition to the node instances.
With this update, Ceilometer virtual machine instance metrics use the **vm_instance** label to expose the instance ID of a virtual machine so that virtual machine instance IDs are not listed in the STF dashboard node instance drop-down menu.

BZ#1976981

Before this update, port 5672 was not enabled for AMQ Interconnect when deploying an Interconnect cluster with Service Telemetry Framework (STF) 1.3. As a result, administrators were not able to query with qdstat for connections to validate their deployment. With this update, port 5672 was added to the list of listeners in the Interconnect object that is managed by the AMQ Interconnect Operator. Administrators can now use qdstat to validate and debug AMQ Interconnect.

BZ#1979378

Before this release, documentation referred to **clouds: {}** to provide an empty object to result in no Smart Gateways being deployed. As a result, Smart Gateways did not clear and the following error was seen in the logs of the Service Telemetry Operator:
"Invalid data passed to *loop*, it requires a list, got this instead: {}. Hint: If you passed a list/dict of just one element, try adding wantlist=True to your lookup invocation or use q/query instead of lookup."

Documentation now states that **clouds: []** is the correct format, resulting in an empty list being passed rather than an empty object. As a result, no Smart Gateways are defined.

3.2.2. Enhancements

This release of STF features the following enhancements:

BZ#1975792

With this update, you can now install Service Telemetry Framework (STF) 1.3 on Red Hat OpenShift Container Platform (OCP) 4.6 and 4.7.

3.2.3. Release notes

This section outlines important details about the release, including recommended practices and notable changes to Service Telemetry Framework (STF). You must take this information into account to ensure the best possible outcomes for your deployment.

BZ#1940181

The dashboards for STF 1.3 have been reworked to be synchronized with the data provided by the new base configuration for OSP. The location of these are different from that of STF 1.2 and are noted in the documentation. The dashboards for Cloud View and Infrastructure View are designed for a single cloud environment.

3.3. SERVICE TELEMETRY FRAMEWORK 1.3.2 MAINTENANCE RELEASE - OCTOBER 5, 2021

These release notes highlight bug fixes and enhancements to be taken into consideration when you install this release of Service Telemetry Framework (STF).

This release includes the following advisory:

RHBA-2021:3721

Release of components for Service Telemetry Framework 1.3.2 - Container Images

3.3.1. Bug fixes

These bugs were fixed in this release of STF:

BZ#1979637

The documentation provides a procedure in which you can verify that the version of Grafana deployed by the Grafana Operator is compatible with the latest dashboard updates. Administrators can now use the new **graphing.grafana.baseImage** parameter to run Grafana 8.1.0 or later, which is required by the latest example dashboards.

BZ#2008338

The configuration overview of the **clouds** parameter for the ServiceTelemetry manifest was previously missing the configuration example for Sensubility, resulting in the corresponding Smart Gateway not being deployed. The documentation has been updated to reflect the configuration for Sensubility support.

3.3.2. Enhancements

This release of STF features the following enhancements:

BZ#1979642

The dashboards referred to in the documentation are now compatible with multiple clouds, making visualization of individual clouds easier for administrators.

BZ#1958934

The virtual machine view dashboard has been updated to work with STF 1.3. Previously, the **vm-view.json** file in the **infrawatch/dashboard** repository did not work with STF 1.3. It was not possible to install the dashboard as a GrafanaDashboard object for management by the Grafana Operator.

3.3.3. Release notes

This section outlines important details about the release, including recommended practices and notable changes to Service Telemetry Framework (STF). You must take this information into account to ensure the best possible outcomes for your deployment.

BZ#1989660

The latest release of STF 1.3 has been verified to work with RHOSP 16.2.1.

3.3.4. Deprecated functionality

The items in this section are either no longer supported or will no longer be supported in a future release:

BZ#2002711

Use of the Elastic Cloud on Kubernetes (ECK) Operator was previously installed from the OperatorHub.io CatalogSource. In Service Telemetry Framework v1.3.2 the documentation was updated to use the ECK Operator from the Certified Operators CatalogSource.

BZ#2002714

Use of the **redhat-operators-stf** CatalogSource has been removed from the documentation of Service Telemetry Framework v1.3. It was used to install a copy of the AMQ Certificate Manager Operator as a workaround to the unavailable Operator in OpenShift Container Platform versions beyond v4.5.
The AMQ Certificate Operator is again available in the **redhat-operators** CatalogSource from OpenShift Container Platform v4.7, meaning the use of the additional CatalogSource is no longer necessary.

To migrate to the built in AMQ Certificate Manager v1.0.1, complete the following steps:

1. Uninstall the existing AMQ Certificate Manager provided by the **redhat-operators-stf** CatalogSource.

2. Subscribe to the new AMQ Certificate Manager provided by the **redhat-operators** CatalogSource that is documented in *Service Telemetry Framework v1.3*.

3. Remove the **redhat-operators-stf** CatalogSource.

3.3.5. Removed functionality

The following functionality has been removed from this release of STF:

BZ#2004142

Documentation about the Node Tuning Operator has been removed from the documentation as there are no action items required by an administrator. OpenShift Container Platform already correctly deals with node tuning when scheduling ElasticSearch as defined by Service Telemetry Operator.