

Release Notes 2.0.0

Streams Messaging Manager Release Notes

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The Cloudera logo is displayed in a bold, orange, sans-serif font. The word "CLOUDERA" is written in all caps, with a stylized 'E' that has a horizontal bar extending to the right.

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What's New in this Release

Streams Messaging Manager 2.0.0 is a major release that contains new features and bug fixes.

Key new features in this release include:

Kafka cluster replication monitoring capability

You can use Streams Replication Manager (SRM) to implement cross-cluster Kafka topic replication in SMM.

Cloudera extensions for SRM collect and aggregate Kafka replication metrics to make them available through REST APIs. SMM uses the REST APIs to display metrics. You can use the metrics to understand the state of your Kafka cluster replications and take corrective actions if needed.

You can view information about Kafka cluster replication health and activity by selecting the cluster about which you want information. SMM shows all replications where the selected cluster is the target cluster.

You can monitor the status of the replication, source cluster name, target cluster name, number of topics to be replicated, number of consumer groups, throughput of the replication, replication latency, and checkpoint latency.

For more information about Kafka cluster replication monitoring, see the *Monitoring Kafka Cluster Replications* guide.

End-to-end latency monitoring capability

Latency is the time taken by a consumer to consume a message that is produced in a topic.

You can use SMM to monitor end-to-end latency in topics. You can find details about the number of messages produced in a topic, the number of messages consumed from a topic, and latency details during the consumption of the messages in the following two graphs in the SMM UI:

- **Messages Consumed.** The graph provides you the overall produced message count and consumed message count across all the consumer groups for a topic within the selected time range. Any discrepancy in the produced and consumed message count is highlighted in red.
- **End-to-end Latency.** The End-to-end Latency graph provides you the details of the latency range and average latency in consuming the messages, which are produced in a particular topic, in milliseconds within the selected time range.

For more information about end-to-end latency monitoring, see the *Monitoring End to End Latency* guide.

New metrics for alert policies

The following metrics are added for alert policies:

- **TOPIC_PARTITION_BYTES_IN_PER_SEC.** The metric is added for topic component type.
- **TOPIC_PARTITION_BYTES_OUT_PER_SEC.** The metric is added for topic component type.
- **TOPIC PARTITION CONSUMPTION PERCENTAGE.** The metric is added for topic component type.
- **MILLISECONDS LAPSED SINCE CONSUMER WAS ACTIVE.** The metric is added for consumer component type.
- **REQUEST HANDLER POOL AVG IDLE PERCENT.** The metric is added for broker component type.
- **NETWORK PROCESSOR AVG IDLE PERCENT.** The metric is added for broker component type.

For more information about metrics for alert policies, see the *Managing Alert Policies* guide.

Related Information

[Monitoring Cluster Replications Overview](#)

[End to End Latency Overview](#)

[Alert Policies Overview](#)

Fixed Issues

This section includes a selection of issues fixed in this release.

- BUG-116211: SMM fails to start with streams_messaging_manager_keytab not found in unsecured cluster.
- BUG-119325: Sync cluster metadata using ZK notifications instead of periodically getting from Kafka brokers.

Known Issues

Streams Messaging Manager 2.0.0 has the following known issues at this time.

SMM does not trigger alert immediately when SRM goes down

Problem: If the SRM cluster goes down, SMM might take 15 minutes to send the alert through email or display the alert on the UI.

First set of produced messages are not counted in total messages displayed in SMM

Problem: You might notice minor discrepancy in the BytesIn, BytesOut, and MessagesIn timeline metrics for the newly created topics and in the outMessagesCount timeline metric for the producers when the time period is selected all the way up to topic initialisation or usage time. The discrepancy in the metrics could utmost be off by the first minute's measurement.

The discrepancy happens due to the lazy initialisation of metrics in the Kafka brokers and by default the metric reporter is configured to report the metrics once in a minute to the external systems post topic initialisation or usage.

Workaround: The graphs in the topic and producer profile page, however, reflect the true state of the metrics the way they are recorded.

Deployment of the activation.jar for airgapped SMM environments

Problem: SMM downloads and installs the [activation-1.1.1.jar](#) as part of the startup process. This requires the host to be connected to the internet to be able to download the jar from the central repository. If the host is not connected to the internet, you get an error.

Workaround: In case the host is not connected to the Internet, the [activation-1.1.1.jar](#) needs to be downloaded manually by the administrator and copied to the following application lib folder: `/usr/smm/current/streams-messaging-manager/libs`.

SMM download locations

Use the following tables to identify the Streams Messaging Manager (SMM) repository locations for your operating system and operational objectives.



Note: You must have your download credentials to access the SMM files in the repository. Download credentials are provided as part of the subscription fulfillment process. Your download credential is not the same as the credential you use to access the support portal. Additionally, you can also get your download credentials in the following ways:

- Contact your Cloudera sales representative.
- File a non-technical case within the [Cloudera support portal](#) for our Support team to assist you.

SMM Rest Server (HDF/HDP)**Table 1: Amazon Linux 2**

File	Location
RPM Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/amazonlinux2/smm-2.0.0.0-24-amazonlinux2-rpm.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/amazonlinux2/smm-ambari-mpack-2.0.0.0-24.tar.gz

Table 2: CentOS 7

File	Location
RPM Tarball (IBM Power)	https://archive.cloudera.com/p/smm/2.0.0.0-24/centos7-ppc/smm-2.0.0.0-24-centos7-ppc-rpm.tar.gz
Management Pack (IBM Power)	https://archive.cloudera.com/p/smm/2.0.0.0-24/centos7-ppc/smm-ambari-mpack-2.0.0.0-24.tar.gz
RPM Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/centos7/smm-2.0.0.0-24-centos7-rpm.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/centos7/smm-ambari-mpack-2.0.0.0-24.tar.gz

Table 3: Debian 9

File	Location
Deb Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/debian9/smm-2.0.0.0-24-debian9-deb.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/debian9/smm-ambari-mpack-2.0.0.0-24.tar.gz

Table 4: SLES 12

File	Location
RPM Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/sles12/smm-2.0.0.0-24-sles12-rpm.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/sles12/smm-ambari-mpack-2.0.0.0-24.tar.gz
Source Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/sles12/streams_messaging_manager-2.0.0.2.0.0.0-24-source.tar.gz

Table 5: Ubuntu 12

File	Location
Deb Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/ubuntu12/smm-2.0.0.0-24-ubuntu12-deb.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/ubuntu12/smm-ambari-mpack-2.0.0.0-24.tar.gz

Table 6: Ubuntu 14

File	Location
Deb Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/ubuntu14/smm-2.0.0.0-24-ubuntu14-deb.tar.gz

Table 7: Ubuntu 16

File	Location
Deb Tarball	https://archive.cloudera.com/p/smm/2.0.0.0-24/ubuntu16/smm-2.0.0.0-24-ubuntu16-deb.tar.gz
Management Pack	https://archive.cloudera.com/p/smm/2.0.0.0-24/ubuntu16/smm-ambari-mpack-2.0.0.0-24.tar.gz

SMM-APP (HDF/HDP)**Table 8: CentOS 7**

File	Location
RPM tarball	https://archive.cloudera.com/p/smm_app/2.0.0.0-29/centos7/smm_app-2.0.0.0-29-centos7-rpm.tar.gz
Source tarball	https://archive.cloudera.com/p/smm_app/2.0.0.0-29/smm_app-2.0.0.2.0.0-29-source.tar.gz

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