Monitoring Kafka Cluster Replications using Streams Messaging Manager 7.1.1

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Monitoring Cluster Replications Overview

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

SRM is an enterprise-grade replication solution that enables fault tolerant, scalable and robust cross-cluster Kafka topic replication. SRM provides the ability to dynamically change configurations and keeps the topic properties in sync across clusters at high performance. SRM also delivers custom extensions that facilitate installation, management and monitoring making SRM a complete replication solution that is built for mission critical workloads. For more information about SRM, see the *Streams Replication Manager for HDF and HDP* document library.

You need to configure SRM properties in SMM. After you configure SRM in SMM, you can use SMM to monitor all the Kafka cluster replications available in your environment. You can view all replication details in SMM. You can monitor status of the Kafka cluster replications, number of topics associated with the replication, throughput, replication latency, and checkpoint latency of Kafka cluster replications in SMM.



Note: You can also create alerts to receive notifications based on the conditions that you configure in the alert policy for monitoring Kafka cluster replications in your system. For more information about creating alerts to monitor Kafka cluster replications, see the *Managing Alert Policies* guide.

Related Information Alert Policies Overview

Configuring SMM for Monitoring SRM Replications

To use Streams Messaging Manager (SMM) to monitor Kafka cluster replications, you must configure SMM to communicate with Streams Replication Manager (SRM).

About this task

For information on how to install and configure SRM, see Add and Configure SRM.

Before you begin

In order for SMM to be able to monitor SRM replications correctly, you must configure the SRM driver to target all clusters that are taking part in the replication. For more information, see *Configuring the driver role target clusters*.

Procedure

- 1. In Cloudera Manager, select Streams Messaging Manager from the available Clusters.
- 2. Click Configuration.
- 3. Configure the following properties:

| Properties | Description |
|---|---|
| Configure Streams Replication Manager | Check the box. |
| Streams Replication Manager Rest Protocol | Select the protocol. |
| Streams Replication Manager Rest Host | Specify the host. The SRM host is a host where the Streams Replication Manager Service role is running. |
| Streams Replication Manager Rest Port | Specify the port. Default is 6670. The SRM service port is the port where Streams Replication Manager service is running. |

4. Click Save Changes (CTRL+S).

5. Restart SMM.

Results

You can see the Cluster Replications option in the SMM UI as shown in the following image:

| MESSAGING | Cluster Replications | | | | | | | Cluster: Cluster 1 |
|------------------------|--------------------------|-----------------|-----------|----------------|----------------|-----------------------|------------------|--------------------|
| | Cluster Replications (1) | | | | | Search By Source | Q AVG MAX MIN | ℃ O an hour • |
| III Brokers | STATUS | SOURCE © TARGET | TOPICS @ | CONSUMER GROUP | e THROUGHPUT e | REPLICATION LATENCY © | CHECKPOINT LATEN | ICY a |
| E Topics | ACTIVE | primary se | condary 7 | 0 | 176 B/s | 1.4 sec | N/A | ~ |
| | | | | | | | | |
| | | | | | | | | |
| # Cluster Replications | | | | | | | | |
| | | | | | | | | |
| Alerts | | | | | | | | |

Related Information

Add Streams Replication Manager to an existing cluster

Viewing Replication Details

After you select a cluster, SMM displays the details of the replications where the selected cluster is the destination cluster.

About this task

You can view the status of the replications, source cluster names, target cluster names, number of topics to be replicated, number of consumer groups, throughput of the replication, replication latency, and checkpoint latency. SMM also displays two graphs, one represents the throughput of the replication and the other displays the replication latency of the replication along with the details of each topic to be replicated.

Perform the following steps to view the details of a cluster replication:

Procedure

In the Cluster Replications page, click a cluster replication or the drop-down icon beside a replication, as shown in the following image:

| 1 | Cluster Replications | | | | | | | Cluster | : CDFClusterDR |
|------|--------------------------|------------|--------|-----------|--------------------|---------------|------------------------|------------------|----------------|
| æ | Cluster Replications (1) | | | | | Search By Sou | urce Q | AVG MAX MIN | ື່ວ an hour ◄ |
| 8 | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT LATEN | ICY ¢ |
| 0))) | ACTIVE | CDFCluster | | 7 | 3 | 3 B/s | 16.2 ms | 4.6 ms | ~ |
| • | | | | | | | | | |
| ÷ | | | | | | | | | |
| . = | | | | | | | | | |

The replication details appear as shown in the following image:

| Clu | uster Replications (1) | | | | | Search By So | urce Q | AVG MAX MIN | ්ට an ho |
|-----|---------------------------------|------------|----------------|-------------------|---------------------------------------|----------------|------------------------|----------------------|-----------|
| | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS ≑ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT L/ | ATENCY \$ |
| 0 | ACTIVE | CDFCluster | → CDFClusterDR | 7 | 3 | 3 B/s | 16.2 ms | 4.6 ms | |
| | Throughput | | | | Replication Latency 15 - 같 10 - | | | | |
| | - 22- 1- 1- 11:00 | 11:15 | 11:30 | 11:45 | 5 - 0 - | 11:00 | 11:15 | 11:30 | 11:45 |
| | Search By Topic Name | Q | | | | | | | MAX MI |
| | Source Topic Name 🔺 | | Partitions 🗢 | Consumer Groups 🕏 | throug | hput \$ Replie | cation Latency 🗢 | Checkpoint Latency 🗢 | |
| | CDFCluster_gateway-east-raw-ser | nsors | 3 | 1 | 0B/s | 19.0 | ms | 4.6 ms | |
| | CDFCluster_gateway-europe-raw- | sensors | 3 | 0 | 0B/s | 19.0 | ms | N/A | |
| | CDFCluster_gateway-speed-raw-s | ensor | 3 | 0 | 8 B/s | 10.3 | ms | N/A | |
| | CDFCluster_gateway-west-raw-se | nsors | 3 | 1 | 0B/s | 19.0 | ms | 4.6 ms | |
| | CDFCluster_heartbeats | | 3 | 0 | 3 B/s | 16.1 | | N/A | |

Searching Cluster Replications by Source

About this task

You can use the Search By Source bar at the top right of the page to search cluster replications by the source cluster name. For example, if the destination cluster is amsterdam, and you enter scottsdale in the Search By Source bar, SMM displays the Kafka cluster replication between scottsdale and amsterdam, as shown in the following image:

| 1 | Cluster Replications | | | | | | | Cluster: amster | dam 👻 🚔 👻 |
|-----|--------------------------|------------|-------------|-----------|--------------------|---------------|------------------------|------------------|--------------|
| து | Cluster Replications (2) | | | | | scottsdale | Q | AVG MAX MIN | "D an hour 🗸 |
| | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT LATEN | ICY \$ |
| 00) | ACTIVE | scottsdale | → amsterdam | 7 | 0 | 281 B/s | 124.1 ms | N/A | ~ |
| ٠ | | | | | | | | | |
| •) | | | | | | | | | |
|) = | | | | | | | | | |
| A | | | | | | | | | |

Monitoring Cluster Replications by Quick Ranges

About this task

You can filter the cluster replications by time range. You can choose any of the following filter values from the dropdown to display the cluster replication details in the selected time range:

- Last 1 Hour
- Last 6 Hours
- Last 24 Hours
- Last 2 Days

The following image shows the Quick Ranges drop-down:

| uster Replications | | | | | | | Cluster: a | msterdam 👻 🛔 |
|--------------------------|---------------|-------------|-----------|--------------------|----------------|------------------------|------------|--|
| Cluster Replications (2) | | | | | Search By Sour | rce Q | AVG MAX MI | N 🖸 an hou |
| STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOIN | Quick Range |
| ACTIVE | springfield — | → amsterdam | 9 | 0 | 745 B/s | 8.0 ms | N/A | Last 1 Hour Last 6 Hours Last 24 Hours |
| ACTIVE | scottsdale | → amsterdam | 7 | 0 | 281 B/s | 125.3 ms | N/A | Last 2 days |

Monitoring Status of the Clusters to be Replicated

You can monitor the status of the Kafka cluster replications in the Status column in the Cluster Replications page.

The status has three variations:

- Active. Indicates that the cluster replication is running.
- Inactive. Indicates that the cluster replication is not running.
- Warning. Indicates that the cluster replication is facing issues.

If the status of a Kafka cluster replication shows inactive or warning, check the logs, and troubleshoot the replication.

Monitoring Topics to be Replicated

You can monitor the number of topics associated with the replication in the Topics column in the Cluster Replications page.

Click on the cluster replication to fetch topic details. SMM displays the following details about the topics:

- Source Topic Name. Name of the topic at the source.
- Partitions. Number of partitions of the topic at the source.
- Consumer Groups. Number of consumer groups consuming data from the topic.
- Throughput. Data replicated between the source cluster and the target cluster per second from a topic. Throughput is measured in bytes per second. By default, SMM displays the average throughput. You can also fetch the maximum or minimum throughputs for a topic by clicking the MAX or MIN button located above the topic details.
- Replication Latency. Amount of time taken for a message of a topic to get replicated from the source cluster to the target cluster. Replication latency is measured in milliseconds. By default, SMM displays the average replication latency. You can also fetch the maximum or minimum replication latency for a topic by clicking the MAX or MIN button located above the topic details.
- Checkpoint Latency. Amount of time taken for a message of a topic to checkpoint on the target cluster after the message is committed on the source cluster. Checkpoint latency is measured in milliseconds. By default, SMM displays the average checkpoint latency. You can also fetch the maximum or minimum checkpoint latency for a topic by clicking the MAX or MIN button located above the topic details.

The following diagram shows details of topics in a cluster replication:

| Cluster Replications (1) | | | | | Search By Source | QA | /G MAX MIN | "D an |
|-----------------------------|------------|----------------|-------------------|---------------------|-----------------------|----------------------|-------------------|--------|
| STATUS | SOURCE \$ | TARGET | TOPICS ¢ | CONSUMER GROUPS \$ | THROUGHPUT \$ REI | PLICATION LATENCY \$ | CHECKPOINT LATE | NCY \$ |
| ACTIVE | CDFCluster | → CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms | 4.5 ms | |
| Throughput | 11/30 | 11:45 | 12:00 | Replication Latency | 11'30 | 11:45 | 12:00 | |
| Search By Topic Name | Q | | | | | | Values: AVG MA | X N |
| Source Topic Name 🔺 | | Partitions 🗢 | Consumer Groups 🗢 | Throughp | ut 🗢 Replication Late | ency 🗢 Cheo | ckpoint Latency 🗢 | |
| CDFCluster_gateway-east-raw | -sensors | 3 | 1 | 0B/s | 19.0 ms | 4.6 1 | ns | |
| CDFCluster_gateway-europe-r | aw-sensors | 3 | 0 | 0B/s | 19.0 ms | N/A | | |
| CDFCluster_gateway-speed-ra | aw-sensor | 3 | 0 | 8 B/s | 10.1 ms | N/A | | |
| CDFCluster_gateway-west-rav | v-sensors | 3 | 1 | 0B/s | 19.0 ms | 4.6 I | ns | |
| | | 3 | 0 | 3 B/s | 16.0 ms | N/A | | |

In the image, you can see that the number of topics to be replicated from CDFCluster to CDFClusterDR is 7, and topic details including topic names, number of partitions for the topics at the source cluster, number of consumer groups consuming messages from each topic, throughput, replication latency, and checkpoint latency of each topic.

Searching by Topic Name

You can use the Search By Topic Name bar to search topic by names and get details of that topic. The following image shows details of the CDFCluster_heartbeats topic:

| CDFClusterD | Cluster: | | | | | | | ster Replications | Clust |
|-------------|-------------------|--------------------|-----------------------|---------------------|-------------|----------------|------------|--|-------------|
| ∵ an hour | WG MAX MIN | Q A | Search By Source | | | | | luster Replications (1) | Clus |
| CY \$ | CHECKPOINT LATENO | ICATION LATENCY \$ | IROUGHPUT \$ REP | CONSUMER GROUPS \$ | TOPICS \$ | TARGET | SOURCE \$ | STATUS | |
| ^ | 4.6 ms | 16.0 ms | 3 B/s | 3 | 7 | → CDFClusterDR | CDFCluster | ACTIVE | |
| | 12:15 | 12:00 | 11:45 | Replication Latency | 12:15 | 12:00 | 11:45 | Throughput | • • • |
| MIN | Values: AVG MAX | Checkpoin | Replication Latency 🗢 | Throughput 🗢 | er Groups 🗢 | ¢ Consume | Q | CDFCluster_heartbeats Source Topic Name * |) (|
| | | N/A | 16.0 ms | 3 B/s | | 0 | 3 | CDFCluster_heartbeats | |

Monitoring Throughput for Cluster Replication

You can monitor the throughput of a Kafka cluster replication in SMM.

Throughput is defined as the data replicated between the source cluster and the destination cluster per second. Throughput is measured in bytes per second.

| Clus | ter Replications | | | | | | | Clu | ister: CDFCluster |
|----------------|-----------------------------------|------------|----------------------------------|-------------------|---------------------|---------------|------------------------|----------------------|-------------------|
| a Clu | uster Replications (1) | | | | | Search By S | Source Q | AVG MAX MIN | ື່ງ an hour - |
| | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT L | ATENCY \$ |
| | ACTIVE | CDFCluster | CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms | 4.6 ms | ^ |
| • | Throughput | | | | Replication Latency | | | | |
| •⊃ = | \$/8 \$/8 | 12:00 | 12:15 | 12:30 | ۲۵- ۴ ۱۵- ۶- | 11:45 | 12:00 | 12:15 | 12:30 |
| • | Search By Topic Name | Q | | | | | | Values: AVG | MAX MIN |
| | Source Topic Name 🔺 | | Partitions 🖨 | Consumer Groups 4 | through | nput \$ Rep | lication Latency 🗢 | Checkpoint Latency 🗢 | |
| | CDFCluster_gateway-east-raw-senso | rs | 3 | 1 | 0B/s | 19. | 0 ms | 4.6 ms | |
| | CDFCluster_gateway-europe-raw-sen | sors | 3 | 0 | 0B/s | 19. | 0 ms | N/A | |
| | CDFCluster_gateway-speed-raw-sens | or | 3 | 0 | 8 B/s | 10. | 0 ms | N/A | |
| | CDFClustergateway-west-raw-senso | vrs | 3 | 1 | 0B/s | 19. | 0 ms | 4.6 ms | |
| | CDFCluster_heartbeats | | 3 | 0 | 3 B/s | 16. | 0 ms | N/A | |

In the image, you can see the average throughput for the CDFCluster to CDFClusterDR replication is 3 bytes per second. You can fetch the maximum or minimum throughput for the replication by clicking the MAX or MIN button located above the cluster replication.

You can also monitor the throughput of a cluster replication graphically. SMM displays the Throughput graph for each cluster in the cluster details. The following image shows the graph for throughput for CDFCluster to CDFClusterDR replication:

| 1 | Clus | ter Replications | | | | | | | | | Cluster: CDFClusterDR |
|-------------|------|---|--------------|--------|--------------|----------------|-----------------|-----------------------|------------------------|------------------------------|-----------------------|
| æ | Cl | uster Replications (1) | | | | | | Sea | ch By Source | Q AVG MAX | MIN 🗘 an hour 🗸 |
| 8 | | STATUS | SOURCE \$ | TARGET | | TOPICS \$ | CONSUMER GROUPS | THROUGHPUT | REPLICATION LATENCY | ¢ CHECKP | OINT LATENCY \$ |
| 0)) | Ø | ACTIVE | CDFCluster — | | lusterDR | 7 | 3 | 3 B/ | s 16.0 ms | 4.6 ms | · ^ |
| * * 1 | | Throughput | 12:00 |) | 12:15 | 12:30 | Replication Lat | ency 11:45 | 12:00 | 12.15 | 12.30 |
| A | | Search By Topic Name | Q | | Partitions 🗢 | | | | | Values: A | |
| | | Source Topic Name CDFCluster_gateway-east-raw-sensor | rs | | Partitions ₽ | Consumer Group | | Throughput \$ IB/s | Replication Latency \$ | Checkpoint Latency 4.6 ms | √ ∓ |
| | | CDFCluster_gateway-europe-raw-ser | | | 3 | 0 | |)B/s | 19.0 ms | N/A | |
| | | CDFClustergateway-speed-raw-sen | sor | | 3 | 0 | 8 | B/s | 10.0 ms | N/A | |
| | | CDFCluster_gateway-west-raw-sense | ors | | 3 | 1 | C |)B/s | 19.0 ms | 4.6 ms | |
| | | CDFCluster_heartbeats | | | 3 | 0 | 3 | B/s | 16.0 ms | N/A | |
| | | | | | | | | | | | 1 - 5 of 7 < 📏 |

Monitoring Replication Latency for Cluster Replication

You can monitor the replication latency of a Kafka cluster replication in SMM.

Replication latency is defined as the amount of time taken for a message to get replicated from the source cluster to the destination cluster. Replication latency is measured in milliseconds.

| Cluster Replications | | | | | | | Cluster: CDFClus |
|--------------------------|----------------|--------------|-------------------|-----------------------------|---------------------------|-------------------------|------------------|
| Cluster Replications (1) | | | | | Search By Source | Q AVG MAX | MIN 🖸 an ho |
| STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ REPLI | CATION LATENCY CHECKPO | INT LATENCY \$ |
| | CDFCluster | CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms 4.6 ms | |
| Throughput | | | | Replication Latency | | | |
| B/5 | 11:45 12:00 | 12:15 | 12:30 | الالا 15 10 5 0 | 11:45 12:0 | 0 12:15 | 12:30 |
| Search By Topic Name | Q | | | | | Values: AV0 | G MAX MI |
| Source Topic Name 🔺 | | Partitions 🗢 | Consumer Groups 🖨 | Through | out Replication Latence | cy ¢ Checkpoint Latency | ÷ |
| CDFCluster_gateway-east | raw-sensors | 3 | 1 | 0B/s | 19.0 ms | 4.6 ms | |
| CDFCluster_gateway-euro | pe-raw-sensors | 3 | 0 | 0B/s | 19.0 ms | N/A | |
| CDFCluster_gateway-spee | d-raw-sensor | 3 | 0 | 8 B/s | 10.0 ms | N/A | |
| CDFClustergateway-west | raw-sensors | 3 | 1 | 0B/s | 19.0 ms | 4.6 ms | |
| | | | | | | | |

In the image, you can see the average replication latency for the CDFCluster to CDFClusterDR replication is 16.0 milliseconds. You can fetch the maximum or minimum replication latency for the replication by clicking the MAX or MIN button located above the cluster replication.

You can monitor the replication latency of a cluster replication graphically. SMM displays the Replication Latency graphs for each cluster in the cluster details. The following image shows the graph for replication latency for CDFCluster to CDFClusterDR replication:

| Clus | ster Replications | Ĩ | | | | | | Clus | ter: CDFCluster |
|----------|-----------------------------------|------------|----------------|-------------------|---------------------|-------------------|------------------------|----------------------|---------------------|
| B Clu | uster Replications (1) | | | | | Search By Source | Q Q | AVG MAX MIN | C an hour |
| = | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS ≑ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT LAT | TENCY \$ |
| • | ACTIVE | CDFCluster | → CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms | 4.6 ms | |
| • | Throughput | | | | Replication Latency | | | | |
| = | × 22- 22- 1- 1- 11:45 | 12:00 | 12:15 | 12:30 | ξ 10- 5- 0- | 11:45 | 12:00 | 12:15 | 12:30 |
| ` | Search By Topic Name | Q | | | | | | Values: AVG N | IAX MIN |
| | Source Topic Name 🔺 | | Partitions 🗢 | Consumer Groups 🖨 | Through | put 🗢 Replication | n Latency 🗢 | Checkpoint Latency 🗢 | |
| | CDFCluster_gateway-east-raw-sen | sors | 3 | 1 | 0B/s | 19.0 ms | | 4.6 ms | |
| | CDFCluster_gateway-europe-raw-s | ensors | 3 | 0 | 0B/s | 19.0 ms | | N/A | |
| | CDFCluster_gateway-speed-raw-se | ensor | 3 | 0 | 8 B/s | 10.0 ms | | N/A | |
| | CDFCluster_gateway-west-raw-ser | isors | 3 | 1 | 0B/s | 19.0 ms | | 4.6 ms | |
| | CDFCluster_heartbeats | | 3 | 0 | 3 B/s | 16.0 ms | | N/A | |
| | | | | | | | | 1 - 5 o | f7 < > |

Monitoring Checkpoint Latency for Cluster Replication

You can monitor the checkpoint latency of a Kafka cluster replication in SMM.

Checkpoint latency is defined as the amount of time taken for a message of a topic to checkpoint on the target cluster after the message is committed on the source cluster. Checkpoint latency is measured in milliseconds.

| Cluster Replications | Cluster: CDFClusterD | | | | | | | | | | |
|-------------------------|----------------------|----------------|-------------------|---------------------|-------------------|------------------------|--------------------------------------|------------|--|--|--|
| Cluster Replications (1 |) Source ¢ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | Search By Source | REPLICATION LATENCY \$ | AVG MAX MI | | | | |
| | CDFCluster | > CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms | 4.6 ms | ^ | | | |
| Throughput sg | 11.45 12.00 | 12:15 | 12:30 | Replication Latency | 11:45 | 12:00 | 12:15 | 12:30 | | | |
| Search By Topic Name | Q | Partitions \$ | Consumer Groups 🕏 | through | put \$ Replicatio | n Latency 🗢 | Values: AVG Checkpoint Latency \$ | MAX MIN | | | |
| CDFCluster_gateway-e | | 3 | 1 | 0B/s | 19.0 ms | | 4.6 ms N/A | | | | |
| CDFCluster_gateway-s | speed-raw-sensor | 3 | 0 | 8 B/s | 10.0 ms | | N/A | | | | |
| CDFCluster_gateway- | west-raw-sensors | 3 | 1 | 0B/s | 19.0 ms | | 4.6 ms | | | | |
| CDFCluster_heartbeat | S | 3 | 0 | 3 B/s | 16.0 ms | | N/A | | | | |
| | | | | | | | 1 - | 5 of 7 < > | | | |

In the image, you can see the average checkpoint latency for the CDFCluster to CDFClusterDR replication is 4.6 milliseconds. You can fetch the maximum or minimum replication latency for the replication by clicking the MAX or MIN button located above the cluster replication.



Note: If the checkpoint latency for a cluster replication or a topic appears as Not Available, then that means there are no consumer groups defined.

Monitoring Throughput and Latency by Values

You can fetch the average, maximum, and minimum values for throughput, replication latency, and checkpoint latency.

You can do this at the following levels:

Cluster Replication Level. Click the AVG, MAX, or MIN buttons, as shown in the following image, to fetch
average, maximum, or minimum values of throughput, replication latency, and checkpoint latency for cluster
replications.

| 1 | Cluster Replications | | | | | | | Cluste | er: CDFClusterDR |
|----------|--------------------------|------------|----------------|-----------|--------------------|---------------|------------------------|-----------------|------------------|
| ණ | Cluster Replications (1) | | | | | Search By Sc | ource Q | AVG MAX MIN | ື່ງ an hour 🗸 |
| 8 | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS \$ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT LATE | NCY ¢ |
| | ACTIVE | CDFCluster | → CDFClusterDR | 7 | 3 | 8 B/s | 22.0 ms | 31.0 ms | ~ |
| ۲ | | | | | | | | | |
| e | | | | | | | | | |
| = | | | | | | | | | |
| ▲ | | | | | | | | | |

• Topic Level. Click the AVG, MAX, or MIN buttons, as shown in the following image, to fetch average, maximum, or minimum values of throughput, replication latency, and checkpoint latency for topics.

| | | | 01 | | 5 | | | Clus | ter: CDFCI |
|------|---|--------------------------------|---------------|--------------------|---------------------|-------------------|------------------------|-----------------------|------------|
| Clus | ster Replications | | | | | | | Clus | ter. CDFC |
| CI | luster Replications (1) | | | | | Search By Source | ce Q | AVG MAX MIN | ්ට an |
| | STATUS | SOURCE \$ | TARGET | TOPICS \$ | CONSUMER GROUPS ≑ | THROUGHPUT \$ | REPLICATION LATENCY \$ | CHECKPOINT LA | ENCY \$ |
| Ø | ACTIVE | CDFCluster | CDFClusterDR | 7 | 3 | 3 B/s | 16.0 ms | 4.6 ms | |
| | Throughput | | | | Replication Latency | | | | |
| | 3 2 - 2 - | | | | 15- ឌ 10- 5- | | | | |
| | 13:00 | 13:15 | 13:30 13 | :45 | 0 + 13:00 | 13:15 | 13:30 | 13:45 | |
| | Search By Topic Name | Q | | | | | | Values AVG N | IAX MI |
| | ocaron by ropic nume | ~ | | | | | | | |
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| | Source Topic Name 🔺 | ensors | | | | | | | |
| | Source Topic Name CDFCluster_gateway-east-raw-se | ensors /-sensors | 3 | 1 | 0B/s | 19.0 ms | | 2.0 ms | |
| | Source Topic Name CDFCluster_gateway-east-raw-si CDFCluster_gateway-europe-raw | ensors r-sensors -sensor | 3 | 1 0 | 0B/s 0B/s | 19.0 ms | | 2.0 ms N/A | |