CDL Metrics

Overview

This chapter describes the Key Performance Indicators (KPIs) available to monitor and analyze the performance of the CDL.

The label name and description of the metrics used in CDL are defined in the following table:

Table 1: Metrics Label Description

Metric Label Name	Label Description
db	The name of the datastore.
operation	The name of operation performed on the CDL pods.
errorCode	The error code sent in response.
errorMessage	The error message sent in response.
slot_shard_id	The Slot map or Shard id where the operation is performed.
slot_instance_id	The Slot instance id where the operation is performed.
shardId	The Slot or Index map or Shard id where the metric is pegged.
instanceId	The Slot or Index map or Instance id where the metric is pegged.
session_type	The type of session data present in the record.
bucket	The bucket represents the bucket under which the session lies. The current buckets are <=1kb, <=2kb, <=4kb,<=8kb, <=16kb, <=32kb, >32kb
notification_type	The type of notification sent from CDL. Values: TIMER_EXPIRED, RECORD_CONFLICT, BULK_TASK_NOTIFICATION
topic	The topic while publishing to kafka
not_found_in	The pod from where the data was not found. Values: Index/Slot

CDL Category

bulk_task_ongoing

Description: Gauge metric to indicate number of bulk tasks that is being processed at any given point in time

Sample Query: `bulk_task_ongoing`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

- Label: `slot_shard_id`

  Label Description: The slot shard id

  Example: 1, 2

- Label: `slot_instance_id`

  Label Description: The slot instance id

  Example: 1, 2

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

bulk_task_total

Description: Total number of bulk tasks with processing status

Sample Query: `bulk_task_total`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

- Label: `slot_shard_id`

  Label Description: The slot shard id

  Example: 1, 2

- Label: `slot_instance_id`

  Label Description: The slot instance id

  Example: 1, 2

- Label: `cdl_slice`

Label Description: The name of the logical cdl slice

Example: session

- Label: `status`

  Label Description: Processing status of bulk task

  Example: timeout, skipped, aborted, completed_last_record, completed

cdl_ep_to_slot_request_tps

Description: Recording rule for endpoint to slot request TPS measurement

Sample Query: `cdl_ep_to_slot_request_tps`

Labels:

- Label: `namespace`

  Label Description: Kubernetes namespace from which the metric is generated

  Example: cdl-global

Labels:

- Label: `pod`

  Label Description: Endpoint pod name from which the metric is generated

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, UpdateFlags

- Label: `errorCode`

  Label Description: The errorCode in the DB response for deletion

  Example: 0, 502

cdl_ep_to_slot_response_time

Description: Recording rule for endpoint to slot response time measurement

Sample Query: `cdl_ep_to_slot_response_time`

Labels:

- Label: `namespace`

  Label Description: Kubernetes namespace from which the metric is generated

  Example: cdl-global

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, UpdateFlags

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response for deletion

  Example: 0, 502

cdl_geo_replication_enabled

Description: Gauge metric to indicate geo replication status. If Geo replication is enabled then value is 1 else 0

Sample Query: `cdl_geo_replication_enabled`

cdl_index_record_capacity

Description: Total index record capacity of CDL

Sample Query: `cdl_index_record_capacity{db=\"session\"}`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

cdl_slice_state

Description: CDL slice active state information in GR instance-awareness. If value is 1 then slice is active

Sample Query: `cdl_slice_state`

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `shardId`

  Label Description: The slot shard id

  Example: 1, 2

cdl_slot_record_capacity

Description: Total slot record capacity of CDL

Sample Query: `cdl_slot_record_capacity{db=\"session\"}`

Labels:

- Label: `db`

Label Description: DB name

Example: session

cdl_slot_size_capacity

Description: Total slot size capacity of CDL

Sample Query: `cdl_slot_size_capacity{db=\"session\"}`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

consumer_kafka_nonprocessed_records_total

Description: Total count of unprocessed kafka records since originated from same pod

Sample Query: `sum(consumer_kafka_nonprocessed_records_total)by(shardId,instanceId)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Get, Multi

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `instanceId`

  Label Description: The instance id

  Example: 1, 2

Labels:

- Label: `reason`

  Label Description: The reason for skipping the consumed kafka record

Example: old_timestamp

consumer_kafka_records_duration_seconds

Description: Time taken to process consumed kafka records

Sample Query: `sum(irate(consumer_kafka_records_duration_seconds[5m]))by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `origin_instance_id`

  Label Description: The index instance id from which the kafka request originated

  Example: 1.1, 1.2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

consumer_kafka_records_total

Description: Total count of records consumed from kafka

Sample Query: `sum(irate(consumer_kafka_records_total[5m]))by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `origin_instance_id`

  Label Description: The index instance id from which the kafka request originated

  Example: 1.1, 1.2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

datastore_internal_requests_duration_seconds

Description: Time taken for processing of internal datastore requests

Sample Query: `sum(datastore_internal_requests_duration_seconds)by(operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: RemoteBulkRead, RemoteBulkReadIndexing, GetChecksumRemoteSlot

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1401

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

datastore_requests_duration_seconds

Description: Total time taken for processing requests at cdl-ep

Sample Query:
`sum(irate(datastore_requests_duration_seconds{errorCode=\"0\",local_request=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, Find, FindByUK, GetCdlStatus, UpdateFlags

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 400, 403, 404, 409, 413, 501, 502, 503, 507, 508

Labels:

- Label: `local_request`

  Label Description: Whether the DB requests is Local or GR. If local_request = 1 then it is Local otherwise it is GR.

  Example: 1, 0

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

datastore_requests_total

Description: Total count of requests received at cdl-ep

Sample Query: `sum(irate(datastore_requests_total{errorCode=\"0\",local_request=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, Find, FindByUK, GetCdlStatus, UpdateFlags

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 400, 403, 404, 409, 413, 501, 502, 503, 507, 508

Labels:

- Label: `local_request`

  Label Description: Whether the DB requests is Local or GR. If local_request = 1 then it is Local otherwise it is GR.

  Example: 1, 0

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

db_records_softdelete_total

Description: Total count of records for the db which are in soft delete/purge state due to purgeOnEval set

Sample Query: `sum(avg(db_records_softdelete_total{notify=\"1\"})by(notify))`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `notify`

  Label Description: Whether purgeOnNotify is set. 1 indicates purgeOnNotify=true, 0 otherwise.

  Example: 1

db_records_total

Description: Total count of records for the db. The following metrics can be achieved: 1. Total record count - Query:
sum(avg(db_records_total{namespace=\"$namespace\",session_type=\"total\",appInstanceId=\"0\"})by(systemId,cdl_slice))
2. Slice wise record count - Query:
sum(avg(db_records_total{namespace=\"$namespace\",session_type=\"total\",appInstanceId=\"0\"})by(systemId,cdl_slice))by(cdl_slice)
3. System ID based count:
sum(avg(db_records_total{namespace=\"$namespace\",session_type=\"total\",appInstanceId=\"0\"})by(systemId,cdl_slice))by(systemId)
4. Sessions grouped by session type - Query:
avg(db_records_total{namespace=\"$namespace\",session_type!=\"total\"}) by (session_type)

Sample Query:
`sum(avg(db_records_total{namespace=\"$namespace\",session_type=\"total\",appInstanceId=\"0\"})by(systemId,cdl_slice))`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `session_type`

  Label Description: The session type stored in the data

  Example: GX, RX, total

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `appInstanceId`

  Label Description: The app instance id populated by app in the record.

  Example: 1

dpapp_internal_requests_total

Description: Total count of internal dp app requests

Sample Query: `sum(dpapp_internal_requests_total)by(operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: RemoteBulkRead, RemoteBulkReadIndexing, GetChecksumRemoteSlot

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1401

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

duplicate_slot_records_deleted

Description: Total slot records deleted due to duplicate slot data found

Sample Query: `duplicate_slot_records_deleted`

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 502

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

find_no_record_total

Description: Total count of find requests for which no records are sent back

Sample Query: `sum(find_no_record_total)by(not_found_in,operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: FindByUk, FindTagsByUk, Find

Labels:

- Label: `not_found_in`

  Label Description: Whether the data not found in index or slot

  Example: index, slot

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

findall_records_bucket

Description: The total number of findAll requests received which can be grouped into the number of records sent in response

Sample Query: `sum(irate(findall_records_bucket[5m]))by(bucket)`

Labels:

- Label: `bucket`

  Label Description: Buckets grouped by no of records

  Example: =0, <=10, <=20, <=50, <=100, >100

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

index_init_sync_duration_seconds

Description: Time taken by the index to sync with local and remote peers during startup

Sample Query: `sum(index_init_sync_duration_seconds)by(shardId,instance_id)`

Labels:

- Label: `db`

Label Description: DB name

Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

index_rebalanced_keys_total

Description: Total no of index keys that have been rebalanced

Sample Query: `index_rebalanced_keys_total`

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

indexing_audit_deleted_keys_total

Description: Total number of unique keys and primary keys deleted during index auditing

Sample Query:
`sum(irate(indexing_audit_deleted_keys_total{errorCode=\"0\",key_type=\"unique\"}[5m]))by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

Example: 1, 2

Labels:

- Label: `key_type`

  Label Description: The type of key

  Example: primary, unique

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 302, 403

indexing_audit_duration_seconds

Description: Total time taken for performing the indexing audit

Sample Query: `indexing_audit_duration_seconds{pod=~\".*\"}`

indexing_audit_total

Description: Total times the indexing audit was run

Sample Query: `indexing_audit_total{pod=~\".*\"}`

indexing_is_leader

Description: Indexing is leader or follower

Sample Query: `indexing_is_leader`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

indexing_kafka_replication_delay_seconds

Description: Total delay in replicating indexes from kafka in index

Sample Query: `sum(irate(indexing_kafka_replication_delay_seconds[5m]))by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `origin_instance_id`

  Label Description: The index instance id from which the kafka request originated

  Example: 1.1, 1.2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

indexing_operation_duration_seconds

Description: Time taken for response of indexing operations sent from cdl ep to index app

Sample Query: `sum(irate(indexing_operation_duration_seconds{errorCode=\"0\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, GetByPk, GetByUk

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404, 500, 503

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

Example: session

indexing_operation_total

Description: Total count of indexing operations sent from cdl ep to index app

Sample Query: `sum(irate(indexing_operation_total{errorCode=\"0\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, GetByPk, GetByUk

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404, 500, 503

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

indexing_overwrites_total

Description: Total number of indexing set operations for which index record is overwriting

Sample Query: `sum(indexing_overwrites_total)by(key_type,shardId)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `key_type`

  Label Description: The type of key

  Example: primary, unique

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

indexing_records_total

Description: Total count of records in the indexing

Sample Query: `indexing_records_total{pod=~\".*\"}`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

indexing_requests_duration_seconds

Description: Time taken for response of indexing requests received

Sample Query: `sum(irate(indexing_requests_duration_seconds{errorCode=\"0\",isKafka=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Set, Delete

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404, 1408

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `isKafka`

  Label Description: Whether the request is from kafka or GRPC. If isKafka = 1 then the request is from kafka

  Example: 1, 0

indexing_requests_total

Description: Total number of requests received at index pod

Sample Query: `sum(irate(indexing_requests_total{errorCode=\"0\",isKafka=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Set, Delete

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404, 1408

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `isKafka`

  Label Description: Whether the request is from kafka or GRPC. If isKafka = 1 then the request is from kafka

  Example: 1, 0

inmemory_indexing_operation_duration_seconds

Description: Total time taken for responses to requests from cdl-ep to cdl-index pod

Sample Query: `sum(inmemory_indexing_operation_duration_seconds{errorCode=\"0\"})by(operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Get, Multi

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `instanceId`

  Label Description: The instance id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

inmemory_indexing_operation_total

Description: Total count of operations from cdl-ep to cdl-index pod

Sample Query: `sum(inmemory_indexing_operation_total)by(operation,shardId)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Get, Multi

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `instanceId`

  Label Description: The instance id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 404

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

kafka_connection_status

Description: Kafka connection status

Sample Query: `kafka_connection_status`

Labels:

- Label: `topic`

  Label Description: Kafka topic name

  Example: kv.kafka.shard.1.1.1

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

kafka_producer_downtime_op_total

Description: Total numbers of operations when kafka producer is not available and added to downtime cache

Sample Query: `sum(kafka_producer_downtime_op_total) by (pod,reason)`

Labels:

- Label: `operation`

  Label Description: The operation which failed

  Example: Set, Delete

Labels:

- Label: `reason`

  Label Description: The reason why the operation failed

  Example: error, queue_full

Labels:

- Label: `success`

Label Description: Whether addition to downtime cache is success or failed

Example: 0, 1

kafka_producer_pending_publish_total

Description: Total count of messages pending to be published to kafka

Sample Query: `kafka_producer_pending_publish_total{pod=~\".*\"}`

kafka_producer_republished_total

Description: Total count of requests republished by kafka producer

Sample Query: `kafka_producer_republished_total`

Labels:

- Label: `operation`

  Label Description: CDL Kafka operation

  Example: Delete, Set

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `topic`

  Label Description: Kafka topic name

  Example: kv.kafka.shard.1.1.1

kafka_producer_requests_duration_seconds

Description: Total time taken by kafka producer to process requests

Sample Query: `sum(irate(kafka_producer_requests_duration_seconds[5m])) by (topic)`

Labels:

- Label: `topic`

  Label Description: Kafka topic name

  Example: kv.kafka.shard.1.1.1

kafka_producer_requests_total

Description: Total count of requests sent towards kafka

Sample Query: `kafka_producer_requests_total`

Labels:

- Label: `topic`

  Label Description: Kafka topic name

  Example: kv.kafka.shard.1.1.1

kafka_records_replayed_total

Description: Total number of records published to kafka due to leader-switchover or kafka-reconnection

Sample Query:
`sum(kafka_records_replayed_total{reason=\"leader_switchover\"})by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `reason`

  Label Description: The reason for replaying kafka records

  Example: leader_switchover, kafka_reconnection

notification_ep_connection_total

Description: Total numbers of connections from CDL to notification endpoint

Sample Query: `notification_ep_connection_total`

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `appInstanceId`

  Label Description: The app instance id

  Example: 1

notification_streaming_enabled

Description: CDL to Notification endpoint streaming connection status. If streaming is enabled then value is 1

Sample Query: `notification_streaming_enabled`

overwritten_index_records_deleted

Description: Total number of records deleted due to overwritten/duplicate unique keys at index

Sample Query: `overwritten_index_records_deleted`

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response for deletion

  Example: 0, 502

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `prefix`

  Label Description: The unique key prefix pattern that detected the stale record

  Example: uk1

overwritten_index_records_skipped

Description: Total number of unprocessed stale records due to queue being full

Sample Query: `overwritten_index_records_skipped`

Labels:

- Label: `action`

  Label Description: action that was supposed to be performed for the stale record

  Example: delete, notify

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `prefix`

Label Description: The unique key prefix pattern that detected the stale record

Example: uk1

records_notification_duration_seconds

Description: Time taken for notification sent towards notification endpoint

Sample Query: `sum(irate(records_notification_duration_seconds[5m])) by (shardId,instance_id,notification_type)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `notification_type`

  Label Description: Type of the notification

  Example: TIMER_EXPIRED, RECORD_CONFLICT, BULK_TASK_NOTIFICATION

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1406

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

records_notification_retry_count

Description: Total notification retries by the slot app

Sample Query: `sum(irate(records_notification_retry_count[5m])) by (shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

records_notification_total

Description: Total count of notifications sent towards notification endpoint

Sample Query: `sum(irate(records_notification_total[5m])) by (shardId,instance_id,notification_type)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `notification_type`

  Label Description: Type of the notification

  Example: TIMER_EXPIRED, RECORD_CONFLICT, BULK_TASK_NOTIFICATION

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1406

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

Example: session

remote_requests_dropped_total

Description: Total number of remote requests that have been dropped

Sample Query: `remote_requests_dropped_total`

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Update, Delete, UpdateFlags

Labels:

- Label: `reason`

  Label Description: The reason for dropping the remote requests

  Example: queue_full

remote_site_connection_status

Description: CDL endpoint to remote site cdl-ep connection count

Sample Query: `sum(remote_site_connection_status)by(pod,systemId)`

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

remote_site_connections_total

Description: Total number of remote site connections configured per endpoint pod

Sample Query: `remote_site_connections_total`

Labels:

- Label: `systemId`

  Label Description: The systemId id of the remote site

  Example: 1, 2

slot_checksum_mismatch_total

Description: Total number of checksum mismatch

Sample Query: `sum(irate(slot_checksum_mismatch_total[5m]))by(slot_shard_id)`

Labels:

- Label: `db`

Label Description: DB name

Example: session

Labels:

- Label: `slot_shard_id`

  Label Description: The slot shard id

  Example: 1, 2

slot_geo_replication_requests_duration_seconds

Description: Time taken to send the response of slot geo replication

Sample Query:
`sum(irate(slot_geo_replication_requests_duration_seconds[5m]))by(systemId,operation)`

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: CREATE, DELETE, UPDATE, UPDATEFLAGS

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 503

slot_geo_replication_requests_total

Description: Total number of requests for slot geo replication

Sample Query: `sum(irate(slot_geo_replication_requests_total[5m]))by(systemId,operation)`

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `operation`

  Label Description: The type of DB operation

Example: CREATE, DELETE, UPDATE, UPDATEFLAGS

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 503

slot_init_sync_duration_seconds

Description: Time taken by the slot to sync with local and remote peers during startup

Sample Query: `sum(slot_init_sync_duration_seconds)by(shardId,instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

slot_operation_duration_seconds

Description: Time taken for response of operations sent from cdl ep to slot app

Sample Query:
`sum(irate(slot_operation_duration_seconds{errorCode=\"0\",local_request=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

Example: Create, Update, Delete, Find, UpdateFlags

Labels:

- Label: `slot_shard_id`

  Label Description: The slot shard id. Kept empty string if metric verbosity is production

  Example: 1, 2

Labels:

- Label: `slot_instance_id`

  Label Description: The slot instance id. Kept empty string if metric verbosity is production

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 104, 105

Labels:

- Label: `local_request`

  Label Description: Whether the DB requests is Local or GR. If local_request = 1 then it is Local otherwise it is GR.

  Example: 1, 0

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

slot_operation_total

Description: Total count of operations sent from cdl ep to slot app

Sample Query: `sum(irate(slot_operation_total{errorCode=\"0\",local_request=\"1\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

Label Description: The type of DB operation

Example: Create, Update, Delete, Find, UpdateFlags

Labels:

- Label: `slot_shard_id`

  Label Description: The slot shard id. Empty string if metric verbosity is production

  Example: 1, 2

Labels:

- Label: `slot_instance_id`

  Label Description: The slot instance id. Empty string if metric verbosity is production

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 104, 105

Labels:

- Label: `local_request`

  Label Description: Whether the DB requests is Local or GR. If local_request = 1 then it is Local otherwise it is GR.

  Example: 1, 0

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

slot_purged_sessions_duration_seconds

Description: Time taken for purging sessions at slot due to next eval timer expiry and purge=true

Sample Query:

```
sum(irate(slot_purged_sessions_duration_seconds{errorCode=\"0\"}[5m]))by(shardId,instance_id)
```

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 501, 508

Example: Get index record failure, Invalid Slice Name received

Labels:

- Label: `notify`

  Label Description: Whether purgeOnNotify is set. 1 indicates purgeOnNotify=true, 0 otherwise.

  Example: 1

slot_purged_sessions_total

Description: Total number of sessions purged at slot due to next eval timer expiry and purge=true

Sample Query:

```
sum(irate(slot_purged_sessions_total{errorCode=\"0\"}[5m]))by(shardId,instance_id)
```

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 501, 508

Labels:

- Label: `notify`

  Label Description: Whether purgeOnNotify is set. 1 indicates purgeOnNotify=true, 0 otherwise.

  Example: 1

slot_reconciled_records_total

Description: Total number of reconciled records

Sample Query: `sum(slot_reconciled_records_total)by(systemId,slot_shard_id,slot_instance_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `slot_shard_id`

  Label Description: The slot shard id

  Example: 1, 2

Labels:

- Label: `slot_instance_id`

  Label Description: The slot instance id

  Example: 1, 2

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Create, Delete

slot_reconciliation_duration_seconds

Description: Total time taken to execute reconciliation

Sample Query: `sum(slot_reconciliation_duration_seconds{isError=\"0\"})by(slot_shard_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `slot_shard_id`

Label Description: The slot shard id

Example: 1, 2

Labels:

- Label: `isError`

  Label Description: Whether any error occurred while reconciling. If isError = 1, then error happened

  Example: 0, 1

slot_reconciliation_total

Description: Total number of reconciliation triggered by checksum mismatch

Sample Query: `sum(slot_reconciliation_total{isError=\"0\"})by(slot_shard_id)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `slot_shard_id`

  Label Description: The slot shard id

  Example: 1, 2

Labels:

- Label: `isError`

  Label Description: Whether any error occurred while reconciling. If isError = 1, then error happened

  Example: 0, 1

slot_records_size_total

Description: Total size of records in bytes in the slot

Sample Query: `sum(slot_records_size_total)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

slot_records_total

Description: Total count of records in the slot

Sample Query: `sum(slot_records_total{session_type\"total\"}) by(pod)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `session_type`

  Label Description: The session type stored in the data

  Example: GX, RX, total

Labels:

- Label: `systemId`

  Label Description: The id of the system

  Example: 1, 2

Labels:

- Label: `bucket`

  Label Description: The bucket grouped by size

  Example: <=1kb, 2kb, 4kb, 8kb

Labels:

- Label: `appInstanceId`

  Label Description: The app instance id populated by app in the record.

  Example: 1

slot_requests_duration_second

Description: Time taken for response of requests received at slot app

Sample Query: `sum(irate(slot_requests_duration_seconds{errorCode\"0\"}[5m])) by (errorCode)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Get, Create, Delete

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1406

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

slot_requests_total

Description: Total count of requests received at slot app

Sample Query: `sum(irate(slot_requests_total{errorCode=\"0\"}[5m])) by (operation)`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `operation`

  Label Description: The type of DB operation

  Example: Get, Create, Delete

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 1406

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

slot_stale_record_duration_seconds

Description: Time taken by the slot to process the stale slot records

Sample Query: `slot_stale_record_duration_seconds`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `delete`

  Label Description: To check if the stale record has been send to delete or skipped. If delete = 1 , then it has been send to delete, otherwise it has been skipped

  Example: 1, 0

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 502

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `reason`

  Label Description: The reason for stale record deletion

  Example: find_all_notify, stale_check_enabled

slot_stale_record_total

Description: Total count of stale slot record deletions processed

Sample Query: `slot_stale_record_total`

Labels:

- Label: `db`

  Label Description: DB name

  Example: session

Labels:

- Label: `delete`

  Label Description: To check if the stale record has been send to delete or skipped. If delete = 1 , then it has been send to delete, otherwise it has been skipped

  Example: 1, 0

Labels:

- Label: `shardId`

  Label Description: The shard id

  Example: 1, 2

Labels:

- Label: `errorCode`

  Label Description: The errorCode in the DB response

  Example: 0, 502

Labels:

- Label: `cdl_slice`

  Label Description: The name of the logical cdl slice

  Example: session

Labels:

- Label: `reason`

  Label Description: The reason for stale record deletion

  Example: find_all_notify, stale_check_enabled