



## CDL Metrics

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### 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**

<b>Metric Label Name</b>	<b>Label Description</b>
<i>db</i>	The name of the datastore.
<i>operation</i>	The name of operation performed on the CDL pods.
<i>errorCode</i>	The error code sent in response.
<i>errorMessage</i>	The error message sent in response.
<i>slot_shard_id</i>	The Slot map or Shard id where the operation is performed.
<i>slot_instance_id</i>	The Slot instance id where the operation is performed.
<i>shardId</i>	The Slot or Index map or Shard id where the metric is pegged.
<i>instanceId</i>	The Slot or Index map or Instance id where the metric is pegged.
<i>session_type</i>	The type of session data present in the record.
<i>bucket</i>	The bucket represents the bucket under which the session lies. The current buckets are <=1kb, <=2kb, <=4kb, <=8kb, <=16kb, <=32kb, >32kb
<i>notification_type</i>	The type of notification sent from CDL. Values: TIMER_EXPIRED, RECORD_CONFLICT, BULK_TASK_NOTIFICATION
<i>topic</i>	The topic while publishing to kafka
<i>not_found_in</i>	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

