



## CDL Metrics

- [Overview, on page 1](#)

### 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

Metric Label Name	Label Description
<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\_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: `sliceName`  
Label Description: The name of the logical sliceName  
Example: session
- Label: `status`  
Label Description: Processing status of bulk task  
Example: timeout, skipped, 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

- 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

- 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\_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

- 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

### **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: `sliceName`  
Label Description: The name of the logical sliceName  
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: sliceName

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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,sliceName))
```

2. Slice wise record count - Query:

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

3. System ID based count:

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

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: sliceName

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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

### **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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`  
Label Description: The name of the logical sliceName  
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: `sliceName`

Label Description: The name of the logical `sliceName`

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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\_pending\_publish\_total**

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

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

**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

**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: `sliceName`  
Label Description: The name of the logical sliceName  
Example: session

**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: `sliceName`

Label Description: The name of the logical sliceName

Example: session

### **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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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

Example: 1, 2

Labels:

- Label: `slot_instance_id`

Label Description: The slot instance id

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: `sliceName`

Label Description: The name of the logical sliceName

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

Example: 1, 2

Labels:

- Label: `slot_instance_id`

Label Description: The slot instance id

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`

Label Description: The name of the logical sliceName

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: `sliceName`  
Label Description: The name of the logical sliceName  
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: `sliceName`

Label Description: The name of the logical `sliceName`

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: `sliceName`

Label Description: The name of the logical sliceName

Example: session

Labels:

- Label: `reason`

Label Description: The reason for stale record deletion

Example: `find_all_notify`, `stale_check_enabled`