




Distributed Tracing in ClickHouse

Frank Chen 16/03/2024

- 
- 1** Background
 - 2** Basic understanding of distributed tracing
 - 3** Distributed tracing in/upon ClickHouse
 - 4** Case Study



The ClickHouse in Shopee

Anti Fraud Detecting

User Behaviour
Analytics

Realtime Data
warehouse

Application
Observability

Video Quality
Analytics

AB Test

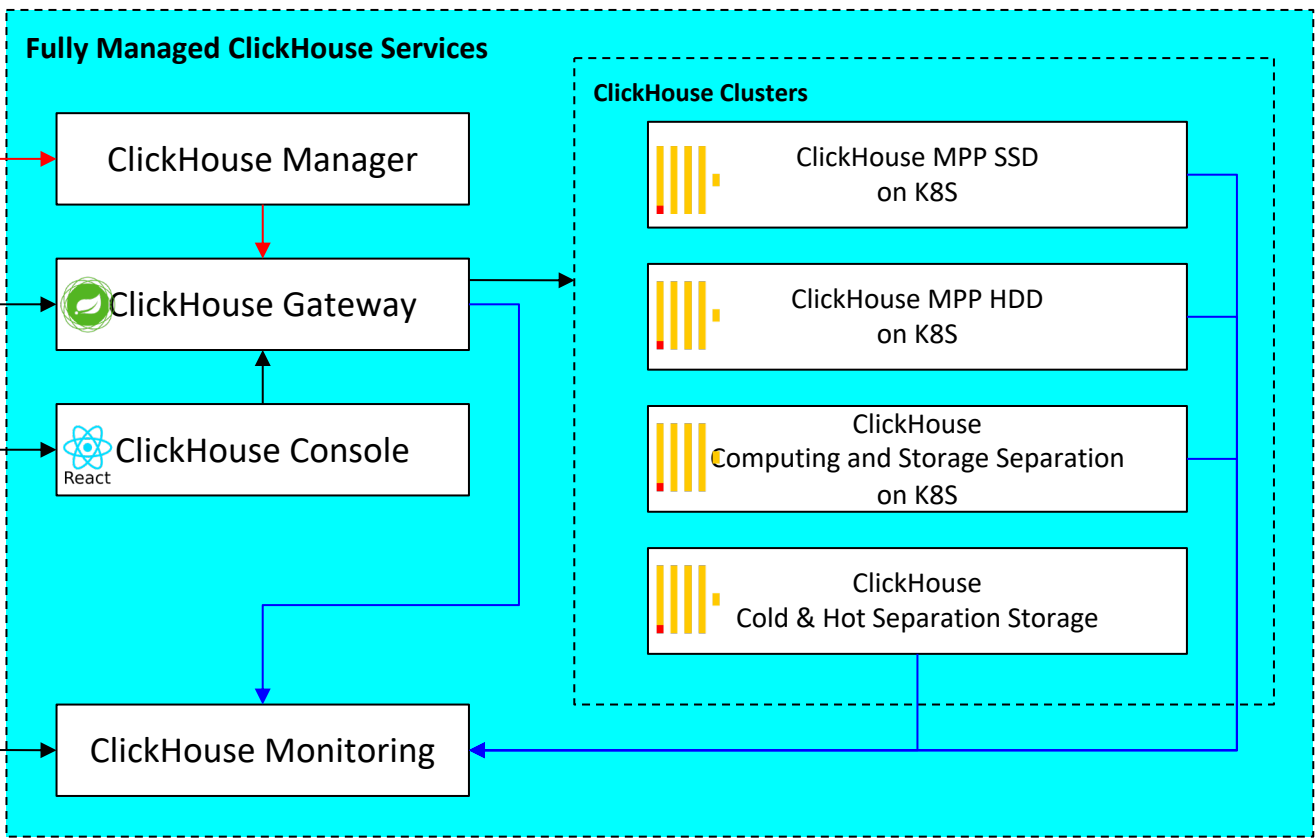
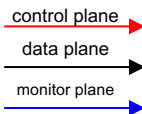
Business Intelligence

Application/Server
Logs

MySQL/ES
Replacement



Holistic view of Shopee ClickHouse



User Applications

ClickHouse Manager

ClickHouse Gateway

ClickHouse Console
React

ClickHouse Monitoring

ClickHouse Clusters

ClickHouse MPP SSD on K8S

ClickHouse MPP HDD on K8S

ClickHouse Computing and Storage Separation on K8S

ClickHouse Cold & Hot Separation Storage



Challenges

Why does my query return different responses?

Why does my query fail occasionally?

Why does my INSERT query fail saying that table does not exist while the table does exist?

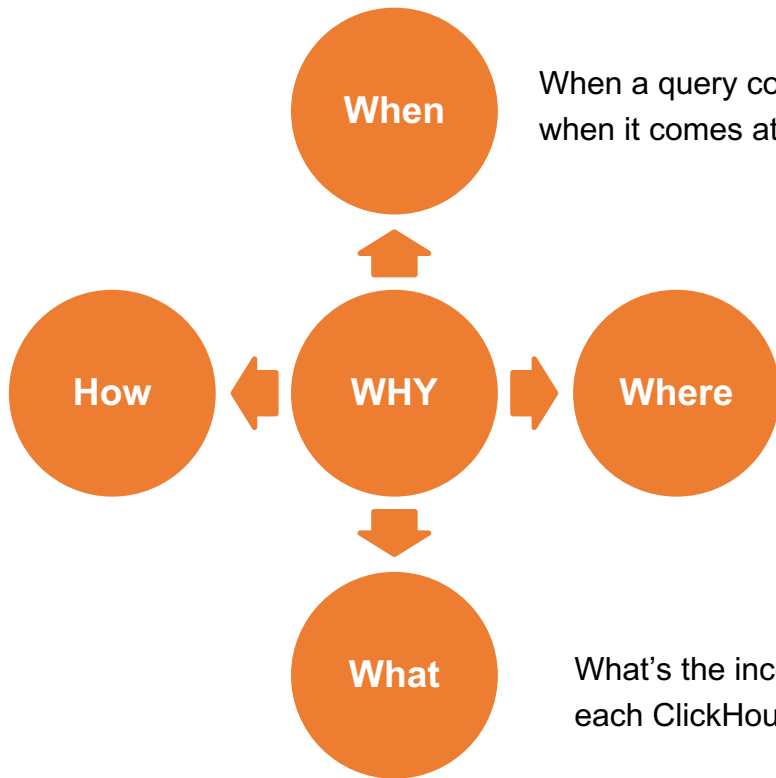
Why does ClickHouse take so long to process a query even the query is the very simple?

...



User questions break down


How a query is executed through the whole cluster, are there MVs executed for that query?



When a query comes at the gateway side and when it comes at the ClickHouse side

Where a query fails, gateway side or ClickHouse side
On Which node a query fails for a distributed query
For INSERT query, which shards does that query write data to

What's the incoming query and the sub-queries for each ClickHouse nodes

- 
- 1 Background
 - 2 Basic understanding of distributed tracing**
 - 3 Distributed tracing in/upon ClickHouse
 - 4 Case Study



Rationale of distributed tracing(1)



GET /?query=select * from dis
startTime = 17:25:00.020
duration = 200ms



Rationale of distributed tracing(1)



GET /?query=select * from dis
startTime = 17:25:00.020
duration = 200ms

TCP
query=select * from local
startTime = 17:25:00.120
duration = 100ms



Rationale of distributed tracing(1)



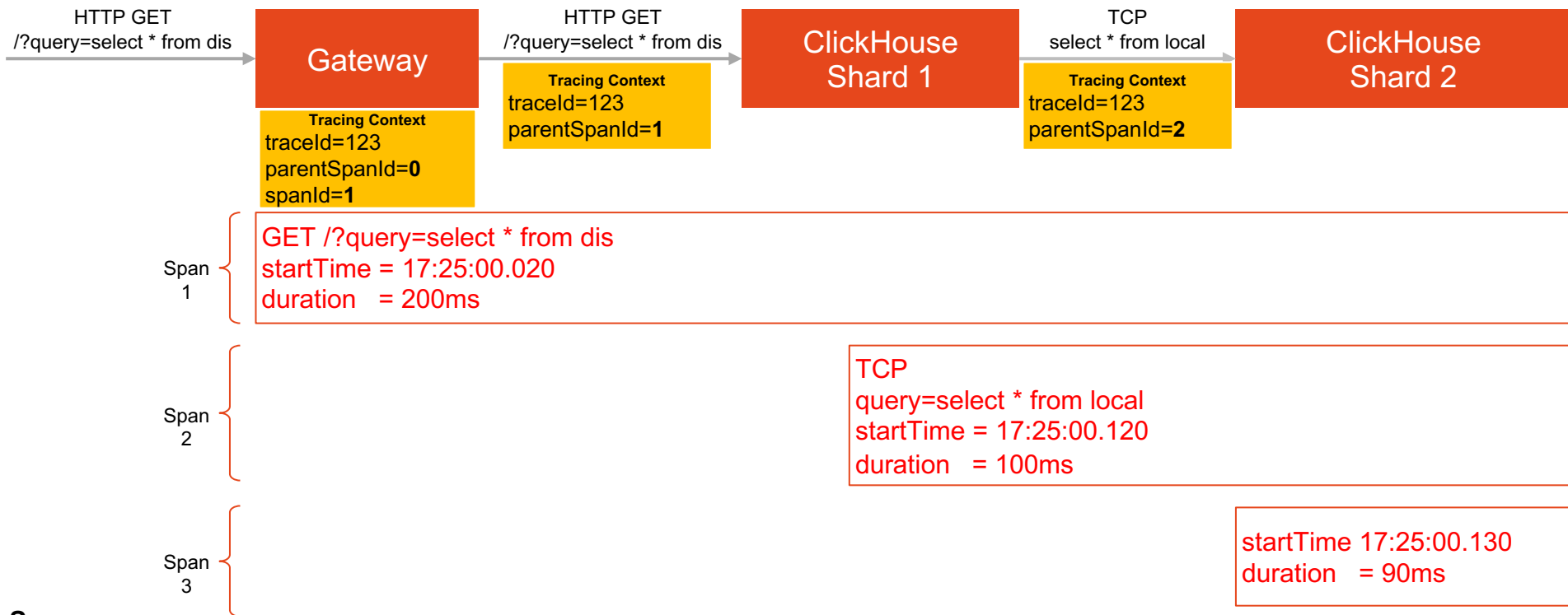
GET /?query=select * from dis
startTime = 17:25:00.020
duration = 200ms

TCP
query=select * from local
startTime = 17:25:00.120
duration = 100ms

startTime 17:25:00.130
duration = 90ms



Rationale of distributed tracing(1)



Summary

At the start of HTTP request, application starts a unique context for current request

During the execution of such request inside one application, application can start a span to reflect execution of a method or a piece of code

When an application sends requests to external applications, they're responsible to propagate the tracing context to other applications

Spans are related to each to simulate call stack



Rationale of distributed tracing(2)

Span Relationship

- Spans can be seen as a simulation of call stack, which is tree-like structure
- Spans use parent-child relationship to simulate the call stack structure

It would be much easier to understand the relationship of spans from the storage perspective

- Each span has a unique id inside one tracing context
- Each span has a parent span Id, indicating the caller of current span

| application | instance | traceld | parentSpanId | spanId | name | url | startTime | duration |
|-------------|-------------|----------|--------------|--------|-------------|-------------|--------------|----------|
| Gateway | 10.1.1.1 | 12345678 | 0 | 1 | http-server | /?query=xxx | 17:25:00.020 | 200 |
| Shard 1 | 192.168.0.1 | 12345678 | 1 | 2 | http-server | /?query=xxx | 17:25:00.030 | 190 |
| Shard 2 | 192.168.0.1 | 12345678 | 2 | 3 | query | | 17:25:00.120 | 100 |
| Shard 2 | 192.168.0.2 | 12345678 | 3 | 4 | tcp-server | | 17:25:00.130 | 90 |

By looking at the tracing logs, we know which component accounts for most of the time



Distributed tracing protocols

The key in the protocol is propagation of trace id and parent span id

Anyone can define its own protocol


For HTTP, HTTP headers are used to carry these information

zipkin **X-B3-TraceId:** 0af7651916cd43dd8448eb211c80319c
X-B3-ParentSpanId: b7ad6b7169203331
X-B3-SpanId: 169206cd43dd8473

pinpoint **Pinpoint-TraceID:** 0af7651916cd43dd8448eb211c80319c
Pinpoint-pSpanID: b7ad6b7169203331
Pinpoint-SpanID: 169206cd43dd8473

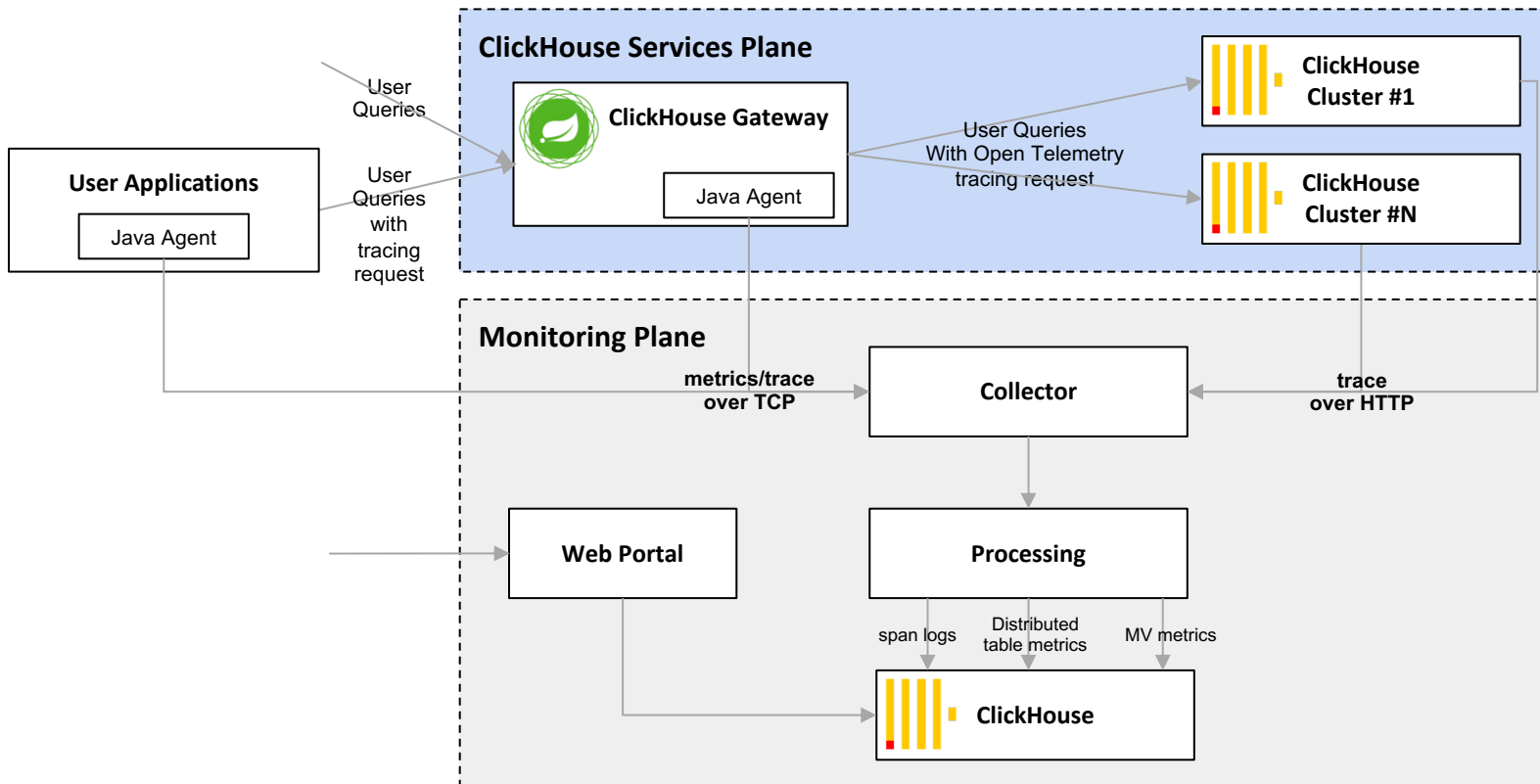
OpenTelemetry **traceparent:** 00-0af7651916cd43dd8448eb211c80319c-b7ad6b7169203331-01



- 
- 1 Background
 - 2 Basic understanding of distributed tracing
 - 3 Distributed tracing in/upon ClickHouse**
 - 4 Case Study



High level view of distributed tracing in ClickHouse





Challenges of implementing tracing in ClickHouse

Tracing Context Propagation
across threads

A problem must to be solved to adapt multiple threads applications

ASYNC Insert on distributed
table

ClickHouse specific problem
Private tracing context propagation

ON CLUSTER DDL

ClickHouse specific problem
Private tracing context propagation

Huge data processing and
storage and query

HBase ?
ES ?



The distributed tracing feature in ClickHouse

We started the work 3 years ago, on ClickHouse 21.3

The distributed tracing feature in ClickHouse was then just a prototype, and full of bugs

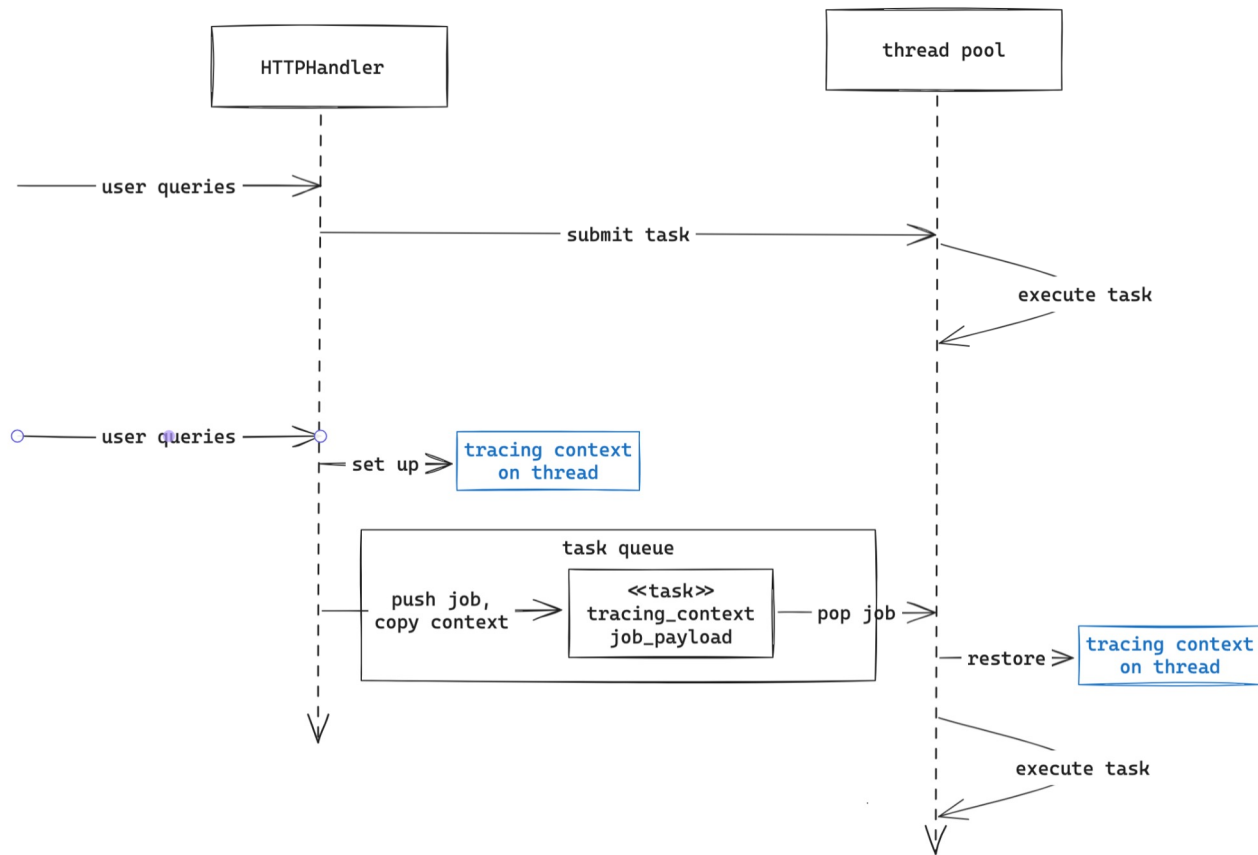
The core of distributed tracing feature was re-worked

95% of work has been contributed back to the community(23.3)

| Category | Community Version Status @ 21.3 |
|--|---------------------------------|
| Queries | Buggy |
| Async INSERT on distributed table | Not Fully Supported |
| DDL | Buggy |
| ON CLUSTER DDL | Not Supported |
| Materialized View | Not Supported |
| Asynchronous tasks for query execution | Buggy |
| Log Export via URL Engine | Buggy |

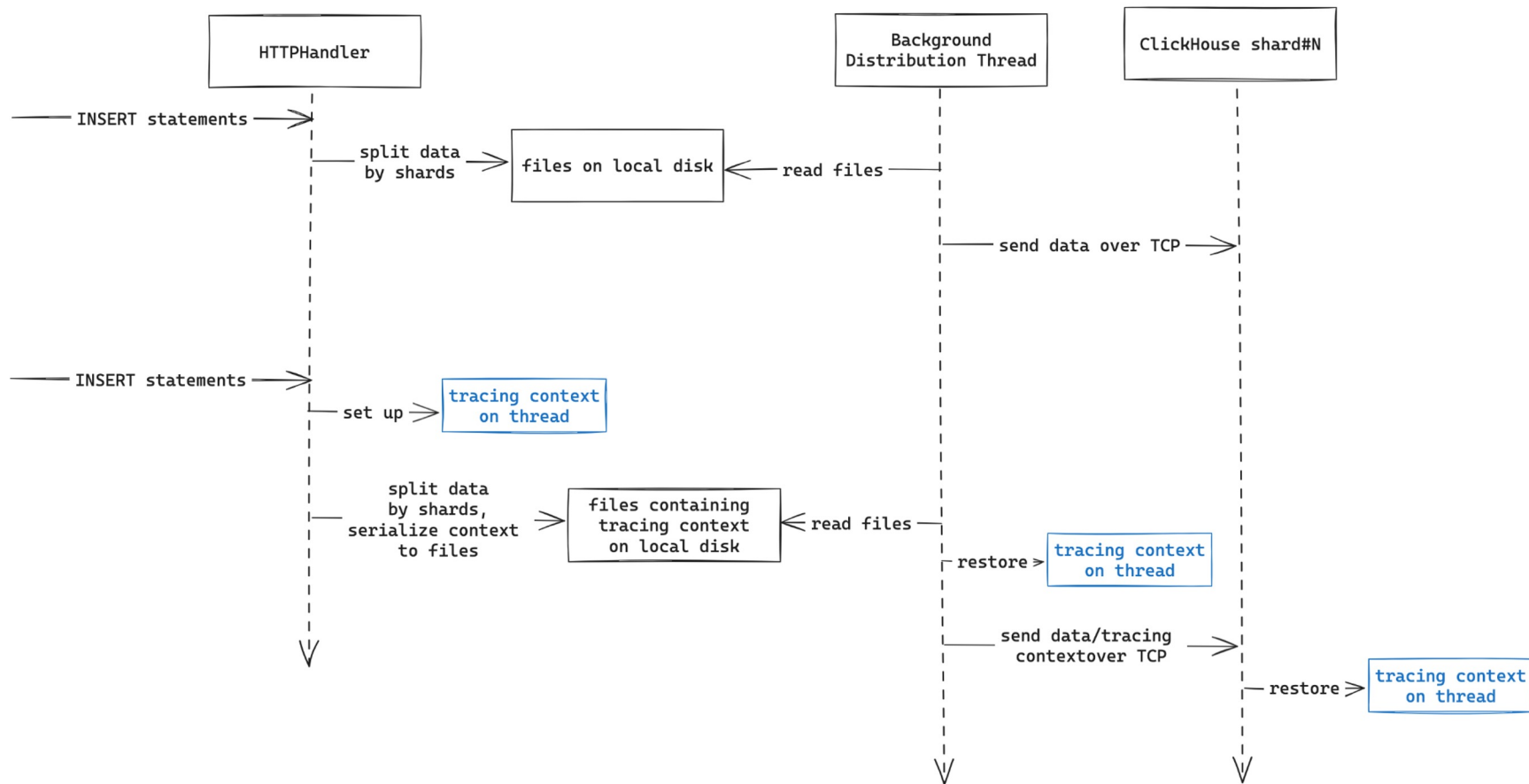
Addressing challenges of the async tasks

ClickHouse internally uses multiple threads to execute a query
How can we maintain the tracing context across threads?





Addressing the challenges of ASYNC INSERT on distributed tables



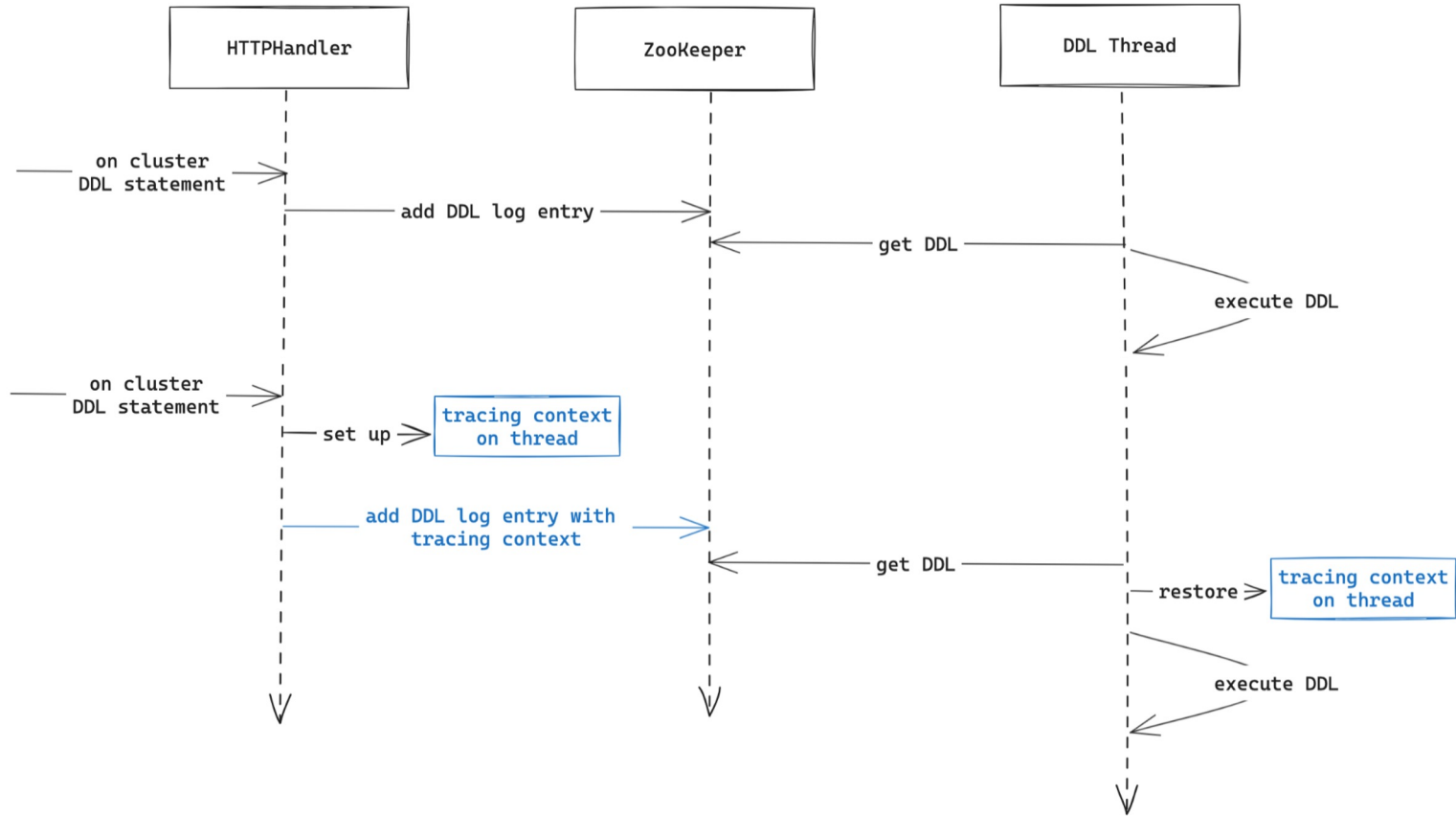


Example

| | | | | | |
|--|---|---|-------|-----------------------|--|
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 857us | 05-11 16:33:49.925 | shard_num: 1 written_rows: 93 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 620us | 05-11 16:33:49.926 | shard_num: 2 written_rows: 67 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 602us | 05-11 16:33:49.926 | shard_num: 3 written_rows: 45 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 551us | 05-11 16:33:49.927 | shard_num: 4 written_rows: 37 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 590us | 05-11 16:33:49.927 | shard_num: 5 written_rows: 52 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 608us | 05-11 16:33:49.928 | shard_num: 6 written_rows: 48 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 629us | 05-11 16:33:49.929 | shard_num: 7 written_rows: 98 |
| clickhouse047.prod08.data-infra.shopee.io:8123 | ▶ | DistributedBlockOutputStream.writeAsyncImpl | 556us | 05-11 16:33:49.929 | shard_num: 8 written_rows: 68 |



Addressing the challenges of ON CLUSTER DDLs



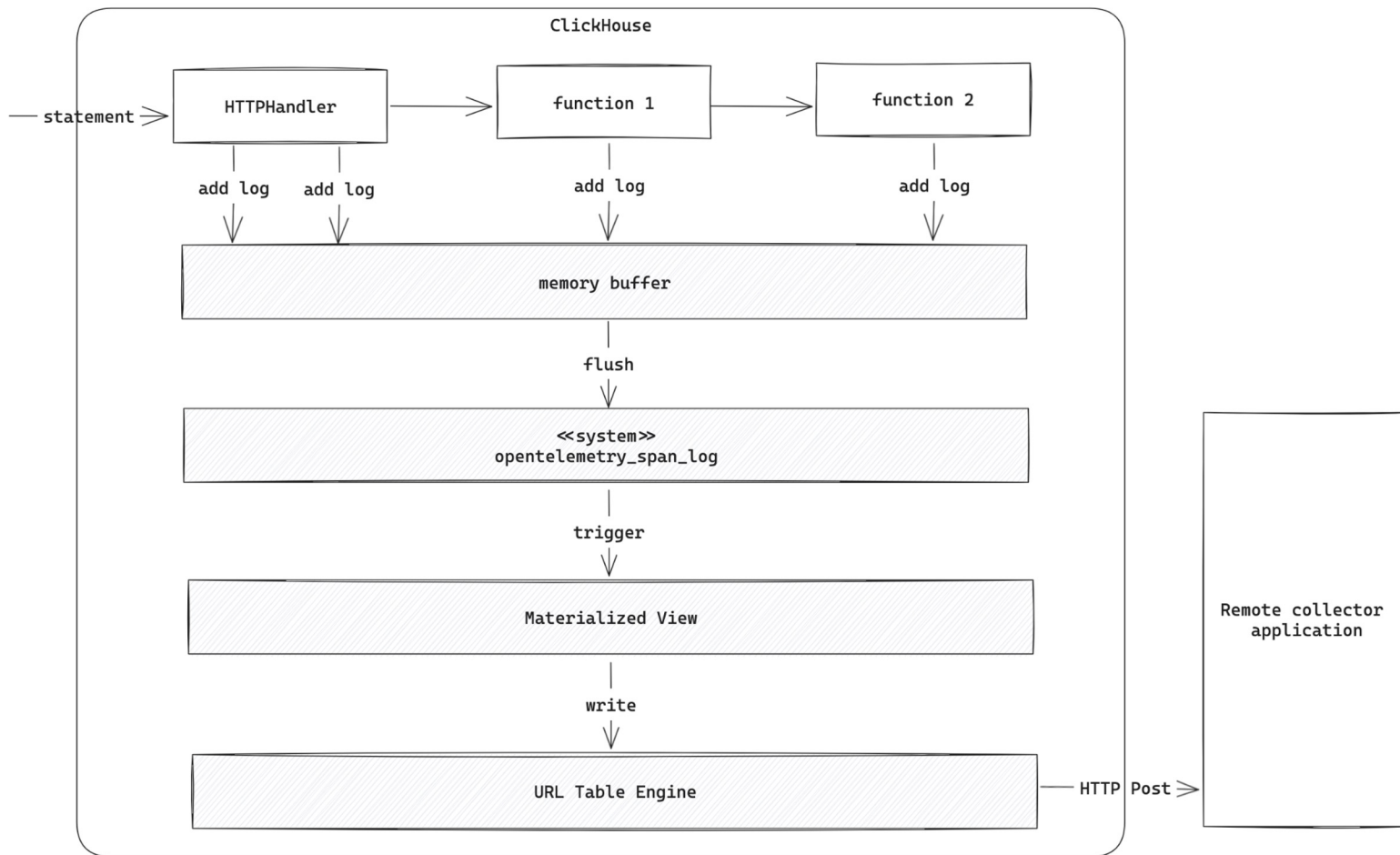


Example

| | | | | | | |
|-------------------------|--|----------------------|--------------------------------|----------|-----------------------|--|
| clickhouse-gateway-live | 10.169.17.211:9090 | filter | ClickHouseFilter.filter | 60us | 05-11 14:09:55.393 | clickhouse.cluster: cluster-mpp-2replicas-online clickhouse.queryType: CREATE clickhouse.user: shopee_mmc_dataservice |
| clickhouse-gateway-live | 10.169.17.211:9090 | ▼ filter | NettyRoutingFilter.filter | 121.47ms | 05-11 14:09:55.393 | |
| clickhouse-gateway-live | 10.169.17.211:9090 | ▼ webflux-httpClient | HttpClientFinalizer.send | 121.36ms | 05-11 14:09:55.393 | http.method: POST http.status: 200 http.uri: http://10.169.24.153:8123/?add... |
| clickhouse-live-prod08 | clickhouse040.prod08.data-infra.shopee.io:8123 | ▼ | HTTPHandler.handleRequest | 175.82ms | 05-11 14:09:55.394 | http.status: 200 http.uri: /?add_http_cors_header=1&log_q... thread_id: 51461 |
| clickhouse-live-prod08 | clickhouse040.prod08.data-infra.shopee.io:8123 | ▼ | query | 173.6ms | 05-11 14:09:55.394 | memory_usage: 2824 query_id: ac110002-500fb1ca62754ed699715c4c025eef9 read_bytes: 2835 read_rows: 50 sql: /*TABIX_QUERY_ID_U2VtFTGM*/ ... |
| clickhouse-live-prod08 | clickhouse040.prod08.data-infra.shopee.io:8123 | ▼ | InterpreterCreateQuery.execute | 3.93ms | 05-11 14:09:55.395 | |
| clickhouse-live-prod08 | clickhouse040.prod08.data-infra.shopee.io:8123 | ▼ | executeDDLQueryOnCluster | 3.9ms | 05-11 14:09:55.395 | cluster: cluster_mpp_2replicas_online |
| clickhouse-live-prod08 | clickhouse007.prod08.data-infra.shopee.io:8123 | ▶ | DDLWorker.processTask | 69.83ms | 05-11 14:09:55.397 | thread_id: 17214 |
| clickhouse-live-prod08 | clickhouse046.prod08.data-infra.shopee.io:8123 | ▶ | DDLWorker.processTask | 49.2ms | 05-11 14:09:55.403 | thread_id: 64680 |
| clickhouse-live-prod08 | clickhouse038.prod08.data-infra.shopee.io:8123 | ▶ | DDLWorker.processTask | 65.15ms | 05-11 14:09:55.404 | thread_id: 33096 |

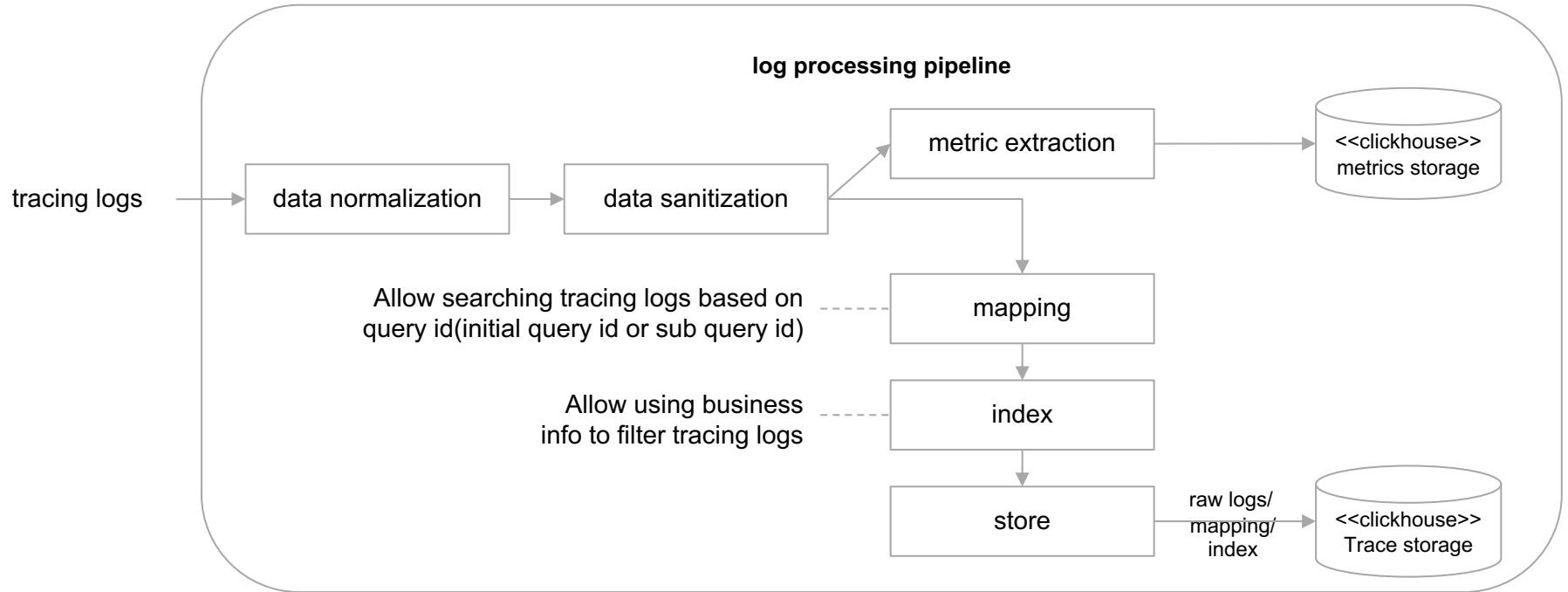


Distributed tracing log collection





Log processing out of ClickHouse





Store distributed tracing logs in ClickHouse

ClickHouse in return is used to store distributed tracing logs

Higher compression ratio

- Default LZ compress archives 20% compression ratio while zstd can achieve about 13% compression ratio
- 1:8 compression ratio in general

Higher throughput for INSERT

- Data can be inserted in very large batch, typically 300K rows per INSERT, greatly improved the performance of data processing middleware
- 3 million rows inserted per second

Hybrid disks support

- SSD for short term storage
- HDD for longer term storage

Better analytics support



Open the black box for users(1)

To find tracing logs for specific query, a query id or trace id is needed, but trace id is automatically generated at server side, is not visible for clients query id is also sometimes automatically generated by libraries(like JDBC), it's invisible for clients



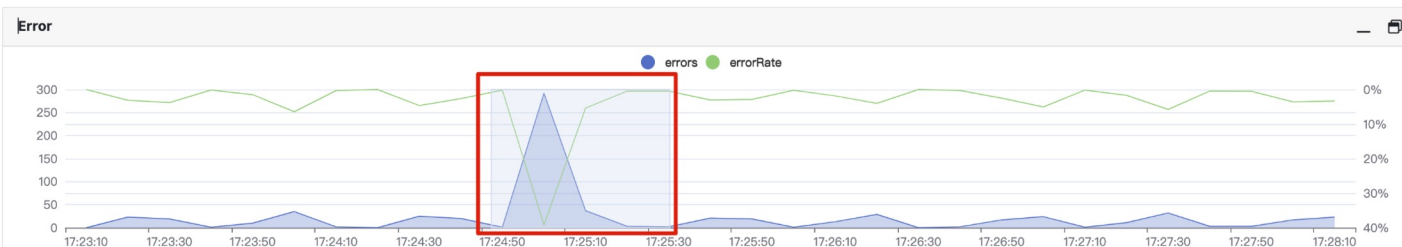
QueryId = 47188e1e-b79e-42e7-a712-da8e147902b3, Check logs for this query at: <http://monitor.olap.data-infra.shopee.io/web/trace/detail?id=28478df653114e7497eca0c20444c494&type=trace>

Code: 47. DB::Exception: Missing columns: 'ext' ...

Code: 47. DB::Exception: Missing columns: 'ext' ...



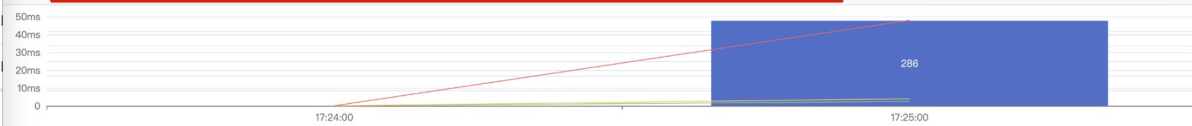
Open the black box for users(2) - Search tracing logs through metrics dashboard




from 2024-03-16 17:24:50 to 2024-03-16 17:25:30

| No. | cluster | user | queryType | exceptionCode | errors | Tracing Log |
|-----|--|---------------------|-----------|---------------------------|--------|--------------------|
| 1 | cluster-mpp-APPMobileFE-fe-apms-online | shopee_fe_apms_read | SELECT | CANNOT_PARSE_DATETIME(41) | 286 | ▶▶ |
| 2 | cluster-mpp-APPMobileFE-fe-apms-online | shopee_fe_apms_read | SELECT | UNKNOWN_TABLE(60) | 37 | ▶▶ |
| 3 | cluster-mpp-APPMobileFE-fe-apms-online | shopee_fe_apms | INS | | | |
| 4 | cluster-mpp-APPMobileFE-fe-apms-online | shopee_fe_apms_read | SEI | | | |
| 5 | cluster-mpp-APPMobileFE-fe-apms-online | shopee_fe_apms_read | SEI | | | |

Filter tags.clickhouse.cluster = 'cluster-mpp-APPMobileFE-fe-apms-online' AND tags.clickhouse.user = 'shopee_fe_apms_read' AND ta



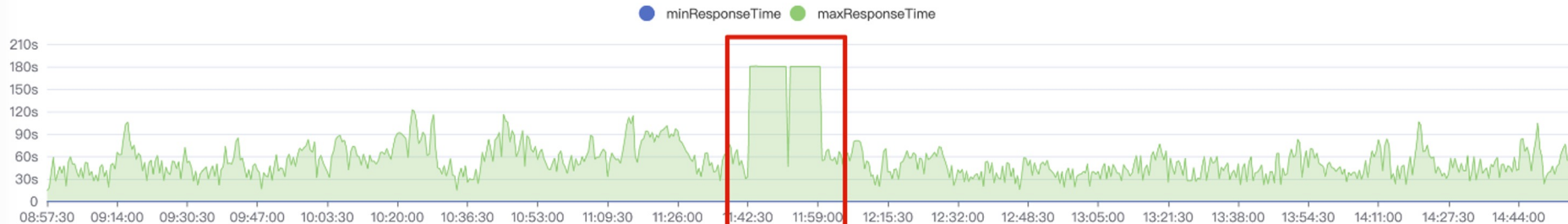
| Trace Id | Application | Instance | Start Time | Duration | Name | Kind | Status | URL |
|-----------|---------------------------|--------------------|--------------------|----------|-------------|--------|--------|--|
| 829a74... | clickhouse-gateway-at_alb | 10.180.13.172:9090 | 03-16 17:25:00.003 | 4.56ms | http-server | SERVER | 400 | /?user=shopee_fe_apms_read-cluster_mpp_APPMobileFE_fe_apms_online&password=***HIDDEN***&query=SELECT 03-16%2000:00%27%20AND%20request_url%20LIKE%20%27%25%2Fapi%2F%25% |
| 19a759... | clickhouse-gateway-at_alb | 10.180.13.172:9090 | 03-16 17:25:00.004 | 5.91ms | http-server | SERVER | 400 | /?user=shopee_fe_apms_read-cluster_mpp_APPMobileFE_fe_apms_online&password=***HIDDEN***&query=SELECT 03-16%2000:00%27%20AND%20request_url%20LIKE%20%27%25%2Fapi%2F%25% |
| 7446e7... | clickhouse-gateway-at_alb | 10.180.13.172:9090 | 03-16 17:25:00.004 | 5ms | http-server | SERVER | 400 | /?user=shopee_fe_apms_read-cluster_mpp_APPMobileFE_fe_apms_online&password=***HIDDEN***&query=SELECT 03-16%2000:00%27%20AND%20request_url%20LIKE%20%27%25%2Fapi%2F%25% |
| 5d74d3... | clickhouse-gateway-at_alb | 10.180.13.172:9090 | 03-16 17:25:00.004 | 6.01ms | http-server | SERVER | 400 | /?user=shopee_fe_apms_read-cluster_mpp_APPMobileFE_fe_apms_online&password=***HIDDEN***&query=SELECT 03-16%2000:00%27%20AND%20request_url%20LIKE%20%27%25%2Fapi%2F%25% |

- 
- 1 Background
 - 2 Basic understanding of distributed tracing
 - 3 Distributed tracing in/upon ClickHouse
 - 4 Case Study**



Case 1 - Identify the bottleneck

responseTime



| Application | Instance | Component | Method | Duration | Start Time | Tags |
|-------------------------|--------------------|--------------------|---------------------------------|----------|------------------------|---|
| clickhouse-gateway-live | 10.169.17.221:9090 | webflux | ReactorHttpHandlerAdapter.apply | 165.30s | 2021-12-27 10:51:19 | { "method": "POST", "uri": "/", "status": "200" } |
| clickhouse-gateway-live | 10.169.17.221:9090 | webflux-routing | NettyRoutingFilter.filter | 10.38s | 2021-12-27 10:53:54 | |
| clickhouse-gateway-live | 10.169.17.221:9090 | webflux-httpClient | HttpClientFinalizer.send | 10.38s | 2021-12-27 10:53:54 | { "uri": "http://10.169.17.228:8123/?query=insert+", "status": "200" } |

155s



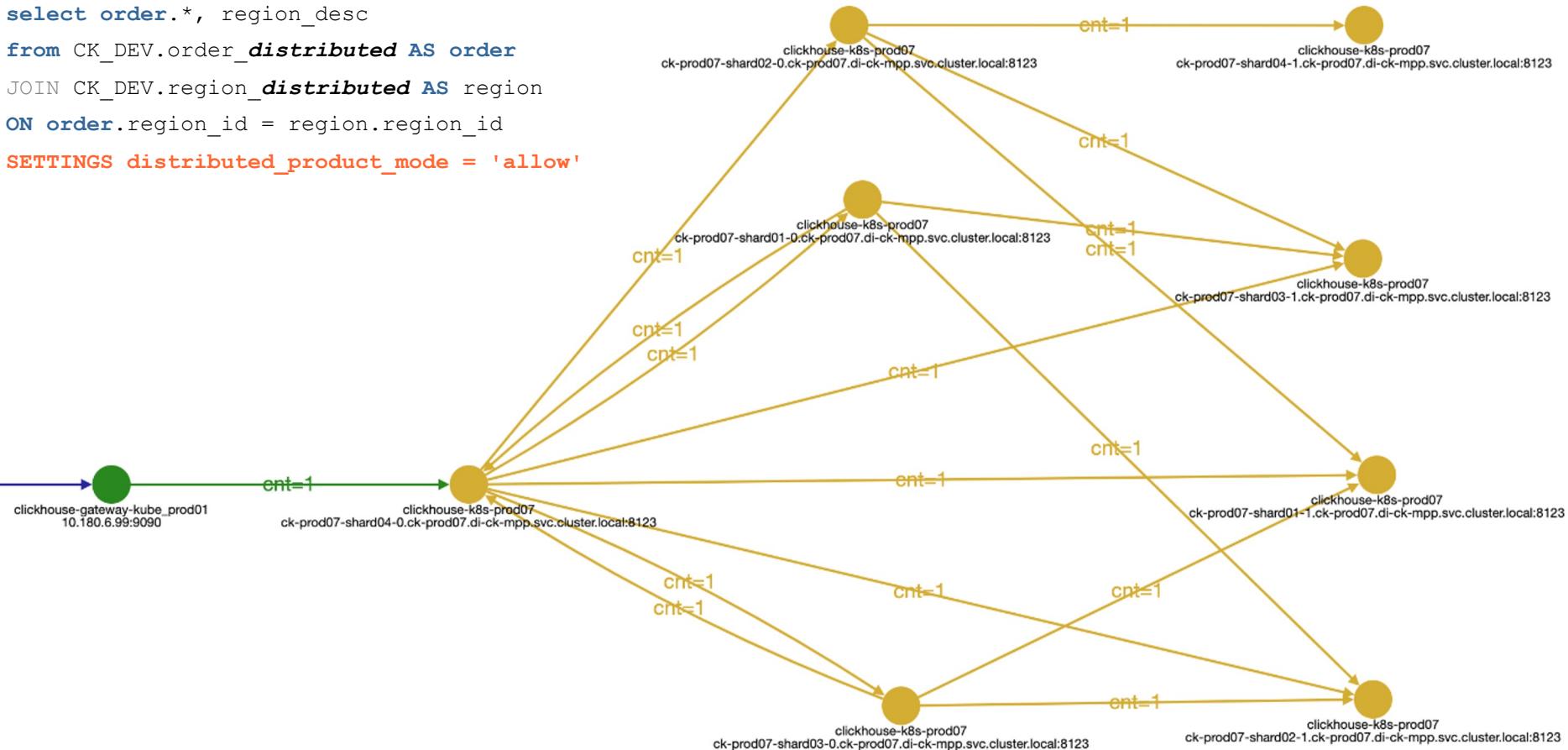
Case 2 - Identify network problems

| | | | | | |
|---|---|----------------------|---------|-----------------------|---|
| ck-prod26-shard03-1.ck-prod26.di-ck-mpp.svc.cluster.local:8123 | ▼ | Connection.sendQuery | 42us | 02-20 18:55:06.739 | query: SELECT FQDN(), `whs_id` target: ck-prod26- shard04 -1.ck- |
| <u>ck-prod26-shard02-1.ck-prod26.di-ck-mpp.svc.cluster.local:8123</u> | ▼ | TCPHandler | 31.3ms | 02-20 18:55:06.740 | thread_id: 330 |
| ck-prod26-shard02-1.ck-prod26.di-ck-mpp.svc.cluster.local:8123 | ▼ | query | 29.68ms | 02-20 18:55:06.740 | memory_usage: 8477127 query_id: e45f6d84-e627-4edd-9- read_bytes: 3399364 read_rows: 32369 sql: SELECT FQDN(), `whs_id`, |



Case 3 - Understanding the distributed JOIN in ClickHouse

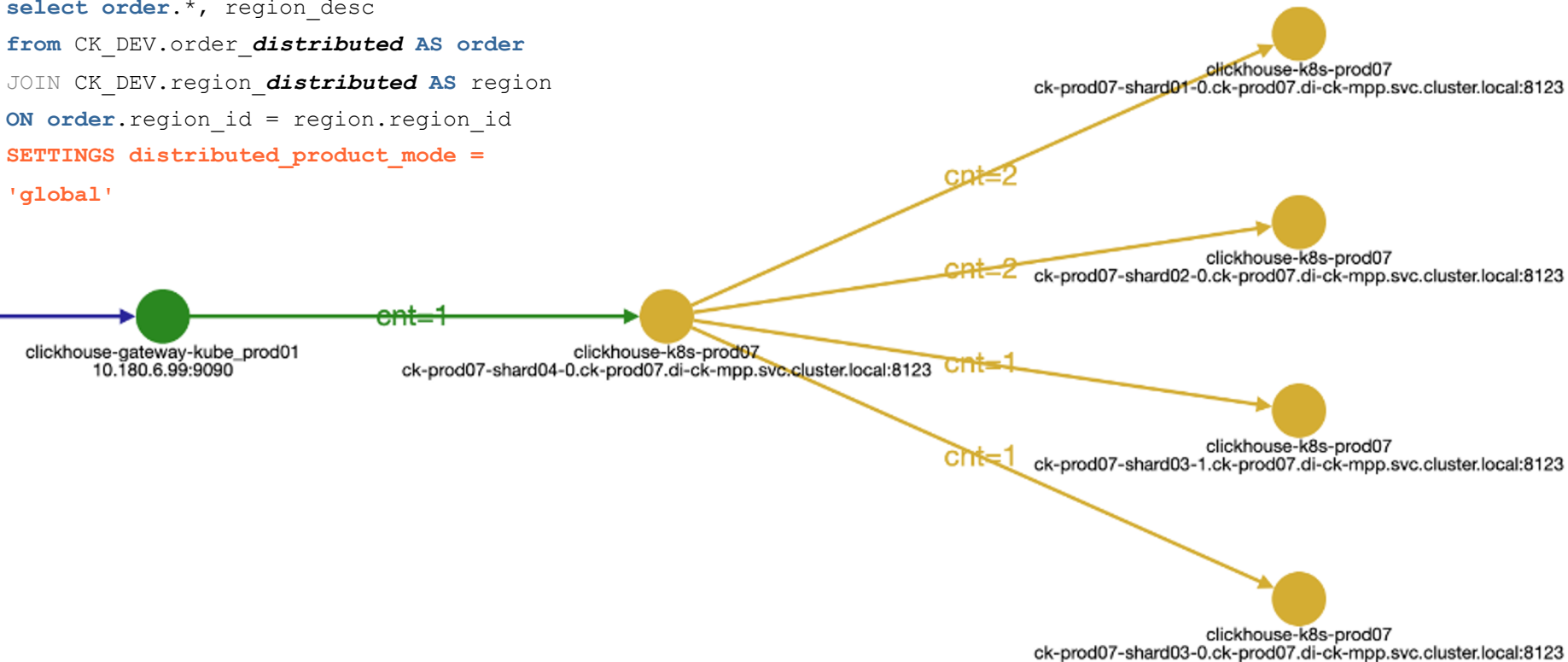
```
select order.*, region_desc
from CK_DEV.order_distributed AS order
JOIN CK_DEV.region_distributed AS region
ON order.region_id = region.region_id
SETTINGS distributed_product_mode = 'allow'
```





Case 3 - Understanding the distributed JOIN in ClickHouse

```
select order.*, region_desc
from CK_DEV.order_distributed AS order
JOIN CK_DEV.region_distributed AS region
ON order.region_id = region.region_id
SETTINGS distributed_product_mode =
'global'
```





Case 4 - Identify problematic node

| | | | | | |
|--|---|---------------------------|--------|--------------------|--|
| clickhouse018.prod08.data-infra.shopee.io:8123 | ▼ | HTTPHandler.handleRequest | 60.46s | 03-14 11:15:31.916 | exception.code: 159 http.status: 500 http.url: /?database=shopeefood_merchant... thread.id: 2962 |
| clickhouse018.prod08.data-infra.shopee.io:8123 | ▼ | query | 60.45s | 03-14 11:15:31.917 | clickhouse.query_id: 50dab953-3f4a-4513-ac17-9bbc28... db.statement: alter table food_rfm_tag_id_li... exception.code: 159 exception.message: Code: 159. DB::Exception: Time... |

| | | | |
|---------------------|----------------------------|--------|---|
| 2024-03-14 11:10:02 | 2024-03-14 11:10:02.343189 | 155 | system connect to index 0 keeper |
| 2024-03-14 11:10:34 | 2024-03-14 11:10:33.190386 | 1390 | /* ddl_entry=query-0000667575 */ ALTER TABLE shopeefood_merchantapp_data.food_rfm_tag_id_live DROP PARTI |
| 2024-03-14 11:13:29 | 2024-03-14 11:13:24.096604 | 5775 | /* ddl_entry=query-0000667576 */ ALTER TABLE shopeefood_merchantapp_data.food_rfm_tag_id_live DROP PARTI |
| 2024-03-14 11:13:42 | 2024-03-14 11:13:41.661709 | 496 | /* ddl_entry=query-0000667577 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:16:25 | 2024-03-14 11:14:43.529549 | 101494 | /* ddl_entry=query-0000667578 */ TRUNCATE TABLE infra_qa_data.self_recover_overall_data |
| 2024-03-14 11:16:32 | 2024-03-14 11:16:27.909724 | 4202 | /* ddl_entry=query-0000667579 */ ALTER TABLE shopeefood_merchantapp_data.food_rfm_tag_id_live DROP PARTI |
| 2024-03-14 11:16:40 | 2024-03-14 11:16:34.376008 | 6068 | /* ddl_entry=query-0000667580 */ ALTER TABLE shopeefood_merchantapp_data.food_user_tag_id_live DROP PART |
| 2024-03-14 11:17:40 | 2024-03-14 11:14:40.154674 | 180498 | truncate TABLE infra_qa_data.self_recover_overall_data on cluster cluster_mpp_2replicas online; |
| 2024-03-14 11:18:56 | 2024-03-14 11:18:56.353924 | 7 | show create table dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:18:58 | 2024-03-14 11:17:44.156877 | 74766 | /* ddl_entry=query-0000667581 */ TRUNCATE TABLE infra_qa_data.self_recover_overview_by_quarter |
| 2024-03-14 11:19:01 | 2024-03-14 11:19:00.869597 | 619 | /* ddl_entry=query-0000667582 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:22:32 | 2024-03-14 11:22:32.973918 | 3 | show create table dws_affiliate_abtest_user_stat_di_v1_tmp |
| 2024-03-14 11:22:46 | 2024-03-14 11:22:18.057747 | 28456 | /* ddl_entry=query-0000667586 */ TRUNCATE TABLE infra_qa_data.sli_data |
| 2024-03-14 11:22:48 | 2024-03-14 11:22:48.236045 | 698 | /* ddl_entry=query-0000667587 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:23:38 | 2024-03-14 11:23:37.940735 | 308 | /* ddl_entry=query-0000667592 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:24:09 | 2024-03-14 11:24:09.587279 | 300 | /* ddl_entry=query-0000667596 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:24:19 | 2024-03-14 11:24:19.293235 | 615 | /* ddl_entry=query-0000667597 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:24:26 | 2024-03-14 11:24:26.542220 | 326 | /* ddl_entry=query-0000667598 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:24:41 | 2024-03-14 11:24:40.887111 | 352 | /* ddl_entry=query-0000667600 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:24:50 | 2024-03-14 11:24:47.963595 | 2507 | /* ddl_entry=query-0000667601 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:25:13 | 2024-03-14 11:25:12.733770 | 326 | /* ddl_entry=query-0000667604 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:25:25 | 2024-03-14 11:25:24.663660 | 1256 | /* ddl_entry=query-0000667605 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:25:48 | 2024-03-14 11:25:48.109351 | 331 | /* ddl_entry=query-0000667608 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:26:03 | 2024-03-14 11:26:02.865248 | 482 | /* ddl_entry=query-0000667610 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:26:29 | 2024-03-14 11:26:28.113902 | 969 | /* ddl_entry=query-0000667613 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |
| 2024-03-14 11:26:43 | 2024-03-14 11:26:43.336171 | 552 | /* ddl_entry=query-0000667615 */ ALTER TABLE opa_algo_abtest_prd.dws_affiliate_abtest_user_stat_di_v1_local |

| | | | | | |
|--|---|-----------------------|----------|--------------------|------------------|
| clickhouse033.prod08.data-infra.shopee.io:8123 | | DDLWorker.processTask | 3.01s | 03-14 11:15:34.125 | thread.id: 58045 |
| clickhouse029.prod08.data-infra.shopee.io:8123 | ▶ | DDLWorker.processTask | 6.57s | 03-14 11:16:25.938 | thread.id: 26738 |
| clickhouse030.prod08.data-infra.shopee.io:8123 | | DDLWorker.processTask | 418.59ms | 03-14 11:17:17.296 | thread.id: 11111 |



Case 5 - Identify errors from materialized view

| | | | | | |
|---|---------------|--------------------------------|--------|--------------------|---|
| 10.180.10.175:9090 | ▼ http-client | HttpClientFinalizer.send | 3.23s | 03-18 16:14:21.675 | <pre>http.client: webflux http.method: POST http.response.header.x-clickhouse-exception-code: 70 http.response.header.x-clickhouse-server-display-name: ck-prod46-shard11-0.ck-prod46. http.response.header.x-clickhouse-summary: {"read_rows": "296217", "read_by... http.status: 500 http.target: /?insert_shard_id=11&decompres... net.peer: 10.180.24.90:8123</pre> |
| ck-prod46-shard11-0.ck-prod46.di-ck-mpp-shared.svc.cluster.local:8123 | ▼ | HTTPHandler.handleRequest | 3.22s | 03-18 16:14:21.684 | <pre>exception.code: 70 http.status: 500 http.url: /?insert_shard_id=11&decompres... thread.id: 23848</pre> |
| ck-prod46-shard11-0.ck-prod46.di-ck-mpp-shared.svc.cluster.local:8123 | ▼ | query | 2.98s | 03-18 16:14:21.924 | <pre>clickhouse.query_id: 0b0a5b7a-856c-4036-b36f-99bbf4... db.statement: INSERT INTO `admin_de_presto_p... exception.code: 70 exception.message: Code: 70. DB::Exception: Conve...</pre> |
| ck-prod46-shard11-0.ck-prod46.di-ck-mpp-shared.svc.cluster.local:8123 | | InterpreterInsertQuery.execute | 2.01ms | 03-18 16:14:21.928 | |
| ck-prod46-shard11-0.ck-prod46.di-ck-mpp-shared.svc.cluster.local:8123 | ▼ | PipelineExecutor.executeImpl | 2.98s | 03-18 16:14:21.930 | <pre>clickhouse.thread_num: 1</pre> |
| ck-prod46-shard11-0.ck-prod46.di-ck-mpp-shared.svc.cluster.local:8123 | ▼ | MaterializedView | 2.98s | 03-18 16:14:21.930 | <pre>clickhouse.duration: 36 clickhouse.source: admin_de_presto_prod_.presto_s... clickhouse.target: admin_de_presto_prod_.presto_s... clickhouse.view: default.node_selector_mv exception.message: Code: 70. DB::Exception: Conve...</pre> |



Thanks