Step 1:应用本地还未应用完成的relay log

Step 2:分布式恢复,拉取本地不存在的事务到 relaylog-group\_replication\_recovery.000xx 使用 group\_replication\_recovery通道进行恢复

```
2023-10-18T11:13:50.319437+08:00 0 [Note] [MY-010536] [Repl] Relay log recovery skipped for group replication channel.
2023-10-18T11:13:50.320051+08:00 0 [Warning] [MY-010536] [Repl] Recovery from master pos 4 and file for channel 'group_replication_applier'. Previous relay log pos and relay log file had been set to 43205612, /greatdb/dbdata/datanode3317/log/relaylog-group_replication_applier.000012 respectively.
2023-10-18T11:13:50.330344+08:00 0 [Note] [MY-010536] [Repl] Relay log recovery skipped for group replication channel.
2023-10-18T11:13:50.331034+08:00 0 [Warning] [MY-010539] [Repl] Recovery from master pos 4 and file for channel 'group_replication_recovery'. Previous relay log pos and relay log file had been set to 4, /greatdb/dbdata/datanode3317/log/relaylog-group_replication_recovery.000001 respectively.
2023-10-18T11:13:50.333483+08:00 0 [Note] [MY-011025] [Repl] Failed to start slave threads for channel 'group_replication_recovery.00001 respectively.
2023-10-18T11:13:50.337963+08:00 6 [Note] [MY-0110051] [Server] Event Scheduler: scheduler thread started with id 6
```

#### Step 3:初始化组通讯

2023-10-18T11:13:50.371390+08:00 2 [Note] [MY-011694] [Repl] Plugin group\_replication reported: 'Initialized group communication with configuration: group\_replication\_group\_ame: '33360000-0000-0000-0000-0000000000000; group\_replication\_local\_address: '172.17.137.196:3917'; group\_replication\_group\_seeds: '172.17.137.197:3917,172.17.137.198:3917, group\_replication\_bootstrap\_group: 'false'; group\_replication\_poll\_spin\_loops: 0; group\_replication\_compression\_threshold: 1000000; group\_replication\_ip\_allowlist: '0.0.0.0/0'; group\_replication\_communication\_deug\_options: 'GCS\_DEBUG\_NONE'; group\_replication\_member\_expel\_timeout: '5'; group\_replication\_communication\_max\_mes\_age\_size: 1048576; group\_replication\_message\_cache\_size: '1073741824u''

# Step 4:change master for channel group\_replication\_applier

```
2023-10-18T11:13:50.371728+08:00 2 [Note] [MY-011071] [Repl] Plugin group_replication reported: 'Init certifier broadcast thread'
2023-10-18T11:13:50.372310-08:00 19 [System] [MY-010597] [Repl] 'CHANGE MASTER TO FOR CHANNEL 'group_replication_applier' executed'. Previous state master_host='<NULL>', master_executed'. Previous state master_bind='. New state master_host='<NULL>', master_port=0, master_log_file='', master_log_pos= 4, master_bind=''. New state master_host='<NULL>', master_port=0, master_log_file='', master_log_pos= 4, master_bind=''.
2023-10-18T11:13:50.478016+08:00 29 [Note] [MY-010581] [Repl] Slave SQL thread for channel 'group_replication_applier' initialized, starting replication in log 'FIRST' at pos ition 0, relay log '/greatdb/dbdata/datanode3317/log/relaylog-group_replication_applier.000014' position: 4
2023-10-18T11:13:50.483449+08:00 0 [Note] [MY-011735] [Repl] Plugin group_replication reported: 'Group Replication applier module successfully initialized!'
2023-10-18T11:13:50.483449+08:00 0 [Note] [MY-011735] [Repl] Plugin group_replication reported: '[GCS] 1697598830.483397 pid 32234 xcom_id 0 state xcom_fsm_init action x_fsm_init
```

### Step 5:join group

```
2023-10-18T11:13:53.372269+08:00 0 [Note] [MY-011071] [Repl] Plugin group_replication reported: 'on_view_changed is called'
2023-10-18T11:13:53.372534+08:00 2 [System] [MY-011511] [Repl] Plugin group_replication reported: This server is working as secondary member with primary member address 172.
17.137.197:1317.
```

# Step 6:Distributed incremental recovery 分布式增量恢复

#### 在组内选择一个节点作为 donor 节点

### Step 7:退出分布式恢复,恢复online

```
Ont) when Workers occupied = 62810 waited when Workers occupied = 215100666300

2023-10-18711:18:02.4254064-08:00 339 [Note] [MY-011585] [Repl] Plugin group_replication reported: 'Terminating existing group replication donor connection and purging the corresponding logs.'

2023-10-18711:18:02.4254064-08:00 341 [Note] [MY-010587] [Repl] Slave SQL thread for channel 'group_replication_recovery' exiting, replication stopped in log 'binlog.000023' a tposition 37466292

2023-10-18711:18:02.4386384-08:00 340 [Note] [MY-011026] [Repl] Slave I/O thread killed while reading event for channel 'group_replication_recovery'.

2023-10-18711:18:02.4386384-08:00 340 [Note] [MY-010570] [Repl] Slave I/O thread exiting for channel 'group_replication_recovery', read up to log 'binlog.000023', position 409

3079-47

2023-10-18711:18:02.540812+08:00 339 [System] [MY-010597] [Repl] 'CHANGE MASTER TO FOR CHANNEL 'group_replication_recovery' executed'. Previous state master_host='172.17.137.

197', master_port= 3317, master_log_file='', master_log_pos= 4, master_bind=''. New state master_host='NULL>', master_port= 0, master_log_file='', master_log_pos= 4, master_bind=''.

2023-10-18711:18:02.559547+08:00 19 [Note] [MY-011071] [Repl] Plugin group_replication reported: 'continue to process queue after suspended'

2023-10-18711:18:02.559547+08:00 19 [Note] [MY-011071] [Repl] Plugin group_replication reported: 'before getting certification info in log_view_change_event_in_order'

2023-10-18711:18:02.5595606+08:00 19 [Note] [MY-011071] [Repl] Plugin group_replication reported: 'after setting certification info in log_view_change_event_in_order'

2023-10-18711:18:02.5595606+08:00 29 [Note] [MY-011059] [Repl] Multi-threaded slave statistics for channel 'group_replication applied': seconds elapsed = 253; events assigned

1025; worker queues filled over overrun level = 0; waited due a Worker queue full = 0; waited due the total size - 0; waited due the
```