

Read replicas-Debugging replica operation failure

Last updated by | Rajani Kumari Veluvali | Apr 4, 2023 at 7:13 AM PDT

1. Find the request id of replica operation
(CreateReadReplicaManagementOperation/DropReadReplicaManagementOperation/PromoteReadReplicaManagementOperation) from the orcasbreadth\orcasbreadth crud.xts view.
2. Update requestid, starttime, endtime below. **Use 'sqladhoc' cluster and 'sqlazure1' database**

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let requestid = "989E4B45-FD99-4FBD-87F3-DD153AC0E2FD"; // Request id of replica operation
let ['_startTime']=datetime('2022-11-06T02:03:34Z'); // Start time of the request
let ['_endTime']=datetime('2022-11-13T03:03:34Z'); // End time of the request, if it in progress use let ['_e
let replica_request_completed = toscalar(AllRegionTable('MonOrcasBreadthRp')
    | where TIMESTAMP between (_startTime .. _endTime)
    | where request_id =~ requestid
    | where AppTypeName == "OrcasBreadthRp"
    | where operation_type in ("CreateReadReplicaManagementOperation", "PromoteReadReplicaManagementOperat
    | where event in ("management_operation_failure", "management_operation_success")
    | extend replica_drop_operation_id = extract("\\<ReadReplicaDropOperationId\\>(.*?)\\</ReadReplicaDrop
    | extend replica_promote_operation_id = extract("\\<ReadReplicaPromoteOperationId\\>(.*?)\\</ReadRepli
    | extend replica_create_operation_id = extract("\\<ReadReplicaCreateOperationId\\>(.*?)\\</ReadReplica
    | extend replica_request_id = case (
        | isnotempty(replica_create_operation_id), replica_create_operation_id,
        | isnotempty(replica_drop_operation_id), replica_drop_operation_id,
        | isnotempty(replica_promote_operation_id), replica_promote_operation_id,
        | requestid)
    | extend replica_request_id = iff (replica_request_id =~ "00000000-0000-0000-0000-000000000000", requ
    | project replica_request_id);
let replica_request_inprogress = toscalar(AllRegionTable('MonOrcasBreadthRp')
    | where isempty(replica_request_completed)
    | where TIMESTAMP between (_startTime .. _endTime)
    | where request_id =~ requestid
    | where AppTypeName == "OrcasBreadthRp"
    | where state in ("PerformPreChecks")
    | where event == "orcasbreadth_fsm_information"
    | extend replica_request_id = extract("FSM RequestId: (.*?) FSM Id: (.*)", 2, message)
    | project toupper(trim(" ", replica_request_id)));
let replica_source_request = toscalar(AllRegionTable('MonOrcasBreadthRp')
    | where isnotempty(replica_request_inprogress) or isnotempty(replica_request_completed)
    | where TIMESTAMP between (_startTime .. _endTime)
    | where request_id =~ requestid
    | where AppTypeName == "OrcasBreadthRp"
    | where state in ("NotifyCreateSourceServerLink", "NotifyDropSourceServerLinkCommunication")
    | where event == "orcasbreadth_fsm_information"
    | extend source_request_id = extract("The source server link create FSM Id (.*?) , Region:(.*?)", 1, m
    | extend source_request_id = iff (isempty(trim(" ", source_request_id)), extract("The source server li
    | project toupper(trim(" ", source_request_id)));
let replica_request_id = case (
    | isnotempty(replica_request_completed), replica_request_completed,
    | isnotempty(replica_request_inprogress), replica_request_inprogress,
    | requestid);
let replica_source_request_id = iff(isempty(replica_source_request) or replica_request_id =~ requestid, reques
let requestids = set_union(pack_array(toupper(requestid),toupper(replica_request_id), toupper(replica_source_r
AllRegionTable('MonOrcasBreadthRp')
    | where TIMESTAMP between (_startTime .. _endTime)
    | where request_id in (requestids)
    | where AppTypeName == "OrcasBreadthRp"
    | project originalEventTimestamp,PreciseTimeStamp, request_id, state_machine_type, ['state'], old_state, new_s
    | order by originalEventTimestamp asc

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