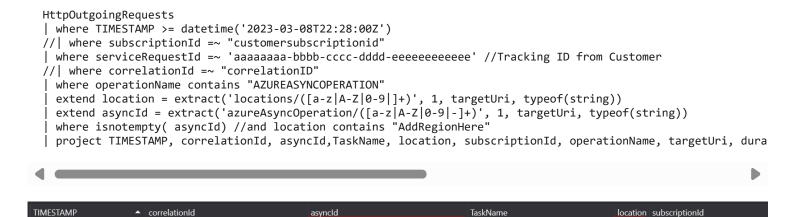
Troubleshooting Read Replica creation issues

Last updated by | Ulisses Alves | Mar 16, 2023 at 1:16 PM PDT

To thorubleshooting cxs have issues creating PGFS Read Replica:

2023-03-08 22:29:39.4111686 03993c18-16cb-4988-ac5b-97241d48449e 26b3723f-2a97-4ae8-a175-c8da07932e6c

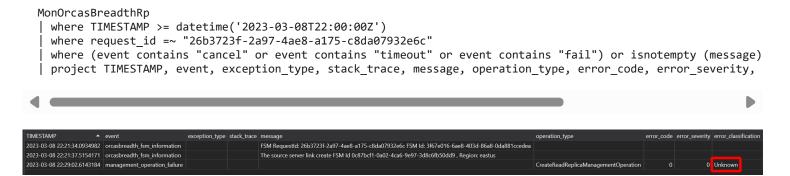
1. Run the following Kusto guery on ARMProd (update the Tracking ID and start date):



2. Using the RequestID from #1 (asyncId) run the following Kusto query in the region from #1 (location), note that I'm checking the operations with TIMESTAMP a few minutes before the error:

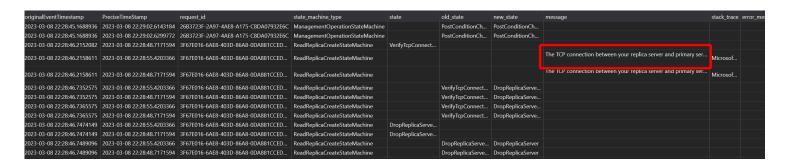
2023-03-08 22:29:39.4127756 | 03993c18-16cb-4988-ac5b-97241d48449e | 26b3723f-2a97-4ae8-a175-c8da07932e6c | HttpOutgoingRequestEndWithSuccess | westus

HttpOutgoingRequestEndWithSuccess westus 625bdeee-1ef9-4a36-b6f4-e22



3. Still in the same location execute the following Kusto query, again note the TIMESTAMP a few minutes earlier than the error occured:

```
let requestid = "26b3723f-2a97-4ae8-a175-c8da07932e6c"; // Request id of replica operation
let ['_startTime']=datetime('2023-03-08T22:00:00Z'); // Start time of the request
let ['_endTime']=now(); //datetime('2022-11-13T03:03:34Z'); // End time of the request, if it in progress use
let replica request completed = toscalar(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</pre>
         extend replica promote operation id = extract("\\<ReadReplicaPromoteOperationId\\>(.+?)\\</ReadRepli</pre>
         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)
        project replica request id);
let replica request inprogress = toscalar(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(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
MonOrcasBreadthRp
 where TIMESTAMP between ( startTime .. endTime)
 where request_id in (requestids)
| where AppTypeName == "OrcasBreadthRp"
//| where isnotempty(message)
project originalEventTimestamp,PreciseTimeStamp, request_id, state_machine_type, ['state'], old_state, new_s
order by originalEventTimestamp asc
```



Error:

The TCP connection between your replica server and primary server failed. If replica and primary server is in different virtual networks make sure both virtual networks peered. If you create Network Security Groups (NSG) to deny traffic flow to or from your Flexible Server within the subnet where it's deployed, please make sure to allow both inbound and outbound traffic to destination port 5432. Refer to https://docs.microsoft.com/en-us/azure/postgresql/flexible-server/concepts-networking#virtual-network-concepts for more details.

For a read replica in another region, the VNets need to be peered or use a hub-spoke network. Also, make sure the PostgreSQL port (5432) is open in the network firewall.

How good have you found this content?



