Troubleshoot PostgreSQL Flexible server Provisioning Issues

Last updated by | Terence Mills | Mar 17, 2023 at 4:28 PM PDT

Issue

This troubleshooting guide will help to troubleshoot Azure Database for PostgreSQL Flexible server provisioning issues.

Investigation/Analysis

Get the error message from the Customer along with Tracking ID or Correlation Id (Correlation ID is preferred)

<u>Sample Error Message</u>: "Message": "An unexpected error occured while processing the request. Tracking ID: '9c1840ab-a3a8-4ac9-a1bf-3b5ce11a201d'"

1.In Kusto under connections, go to ARMProd. Then Replace Timestamp, Subscription ID, Correlation ID or ServiceRequestID (Tracking ID from the Error message) and get the ASYNCID from the below queries

```
//Get ASYNC ID from the below - Replace Timestamp, Subscription ID, Correlation ID and get the asyncId
HttpOutgoingRequests
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-01 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
//| where subscriptionId =~ "customersubscriptionid"
| where serviceRequestId =~ '9c1840ab-a3a8-4ac9-a1bf-3b5ce11a201d' //Tracking ID from Customer
//| where correlationId =~ 'b1b44599-9443-4438-803b-9ae2984ffae5'
| where operationName contains "AZUREASYNCOPERATION"
| extend location = extract('locations/([a-z|A-Z|0-9|]+)', 1, targetUri, typeof(string))
| extend asyncId = extract('azureAsyncOperation/([a-z|A-Z|0-9|-]+)', 1, targetUri, typeof(string))
| where isnotempty( asyncId) //and location contains "AddRegionHere"
| project TIMESTAMP, correlationId, asyncId, serviceRequestId,TaskName, location, subscriptionId, oper</pre>
```



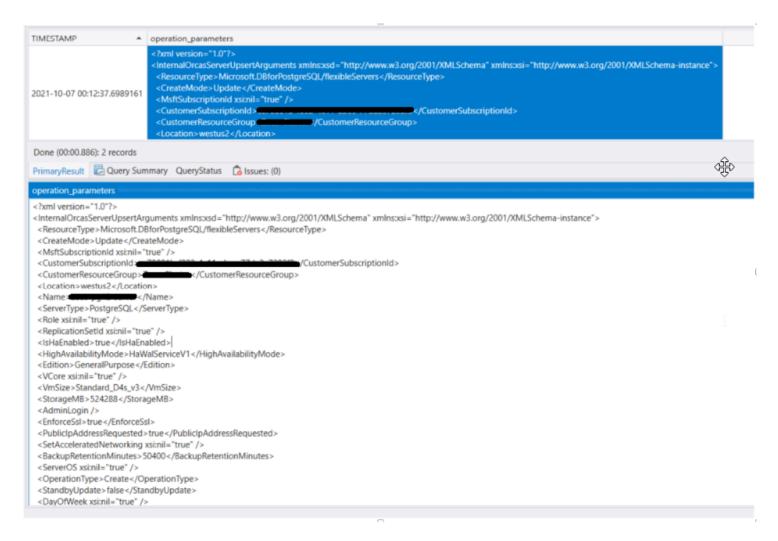
2. You can get the same information from below guery also.

```
//Get ASYNC ID from the below - Replace Timestamp, Subscription ID, Correlation ID and get the asyncId f
HttpIncomingRequests
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-01 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
//| where subscriptionId =~ "customersubscriptionid"
| where serviceRequestId =~ '9c1840ab-a3a8-4ac9-a1bf-3b5ce11a201d' //Tracking ID from Customer
//| where correlationId =~ 'b1b44599-9443-4438-803b-9ae2984ffae5'
| where operationName contains "AZUREASYNCOPERATION"
| extend location = extract('locations/([a-z|A-Z|0-9|]+)', 1, targetUri, typeof(string))
| extend asyncId = extract('azureAsyncOperation/([a-z|A-Z|0-9|-]+)', 1, targetUri, typeof(string))
| where isnotempty( asyncId) //and location contains "AddRegionHere"
| project TIMESTAMP, correlationId, asyncId, serviceRequestId,TaskName, location, subscriptionId, operat
```



3. Provide the ASYNC ID from the step 1 in the below query in request_id column to find the operation parameters to get the details about the operation.

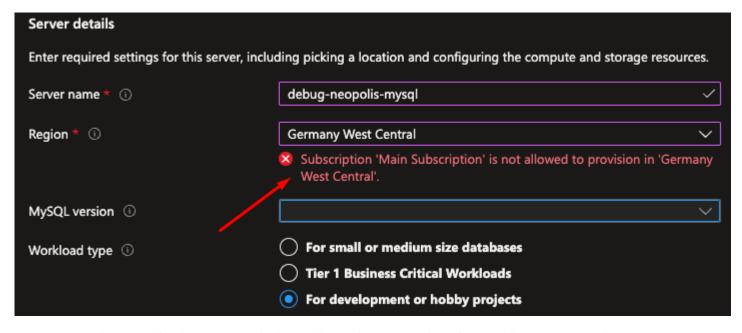
```
//Get the Operational Parameters for the server creation
MonOrcasBreadthRp
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-04 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
| where request id =~ "838f778d-602e-4614-8066-f75487480f7c"
//| where correlation id =~ 'e80b02ed-2a57-416e-98de-06921e04ffad'
 where operation_parameters !=''
project TIMESTAMP, operation parameters
```



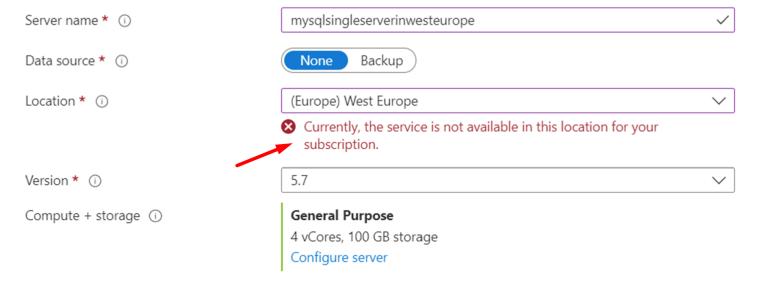
Note in case ASYNC ID is not available

In case ASYNC ID is not obtained running the Kusto queries from action items 1 or 2, this indicates that the ARM request never made it to the backend and therefore the data field 'request_id' is unavailable for the error to be further tracked down. This could have assorted reasons, such as discontinued or unavailable SKU in the region, wrong parameter selection, or the current capacity constraint (Spring 2022).

In case the subscription, region or SKU tier is restricted, customers will likely see a message in Azure Portal deployment page informing the restriction and preventing them from proceeding with the deployment. This will not be the case if they use Terraform or any form of scripted deployment. They won't be seeing the error message below and will get a generic error message in their automation tool. For cases like this, please request the customers to attempt the deployment via portal, particularly if you believe the underlying issue is related to the ongoing capacity constraint and you need to fetch the error to document it upon ICM creation.



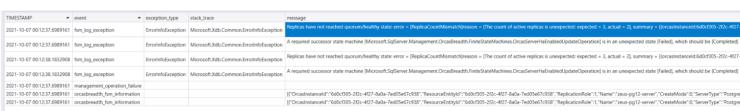
Enter required settings for this server, including picking a location and configuring the compute and storage resources.



If customers complain that they should be able to deploy or modify resources via automation and the portal is not the most adequate way for them to carry out their devops tasks, please confidently advise them that the capacity constraint is of temporary nature and the fastest way to detect whether the issue is related to any sort of restriction is to test it via portal.

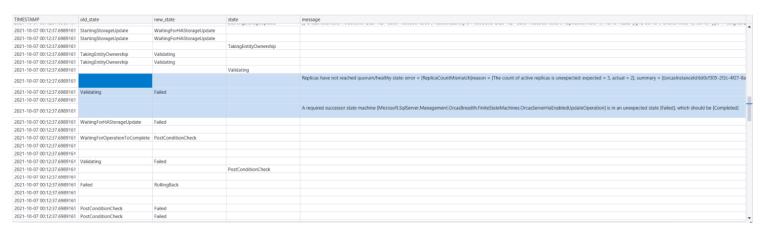
4. Use the below query to find if there are any error messages.

```
//Get the error messages
MonOrcasBreadthRp
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-04 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
| where request_id =~ "838f778d-602e-4614-8066-f75487480f7c"
//| where correlation_id =~ '443fbf97-75e9-4cd7-a73e-6a8b5f543d02'
//| where event != "orcasbreadth_fsm_information"
| where event != "orcasbreadth_fsm_information" and (event contains "cancel" or event contains "timeout" or ev
| project TIMESTAMP, event, exception_type, stack_trace, message, operation_type, error_code, error_severity,</pre>
```



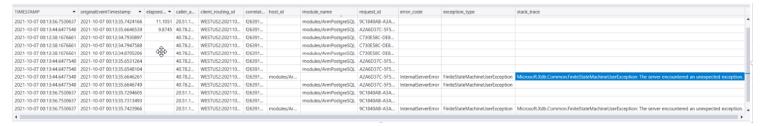
5. Below Kusto can help to find the steps involved in Provisioning operation and its status.

```
//Get the state and Error messages
MonOrcasBreadthRp
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-04 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
| where request_id =~ "838f778d-602e-4614-8066-f75487480f7c"
| project TIMESTAMP, old_state, new_state, state, message, error_message, error_number | order by TIMES</pre>
```



6. If you know the region and correlation ID, You can use the below query also to find the error message

```
//Get the Error messages
MonOrcasBreadthResourceProvider
| where TIMESTAMP > ago(7d)
//| where TIMESTAMP > datetime(2021-10-04 23:20) and TIMESTAMP < datetime(2021-10-04 23:25)
| where correlation_id =~ 'f26391b4-5774-4bee-a594-c3a0b58f64c5'
| project TIMESTAMP, originalEventTimestamp, elapsed_time_milliseconds, caller_address, client_routing_i</pre>
```



7. Using the query below you can find the exception messages. This query is helpful when investigating Capacity constraint issues.

Mitigation

Azure Database for PostgreSQL Flexible server provision can be due to different issues. Review the Error message and act accordingly. If you are unable to resolve the error message, Please file an ICM.

Public Doc Reference

https://docs.microsoft.com/en-us/azure/postgresql/flexible-server/quickstart-create-server-portal

Root Cause Classification

CRUD PostgreSQL Flexible Server/CRUD