# **Connection failure -**Global\_ServerDNSAlias\_SqlAliasResolutionBug

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## Issue

Product team discovered a race condition with the recent deployment (early dec 2020), that manifests and cause transient connection failures, when two or more logins attempts for the same server processed in parallel OR when a login is processed while gateway is performing internal metadata refresh. This issue has generated service requests over the month of December 2020, and multiple RCA requests to Product team. Engineering has identified the potential cause and ready to roll out the fix in the upcoming train (ETA Jan 2020).

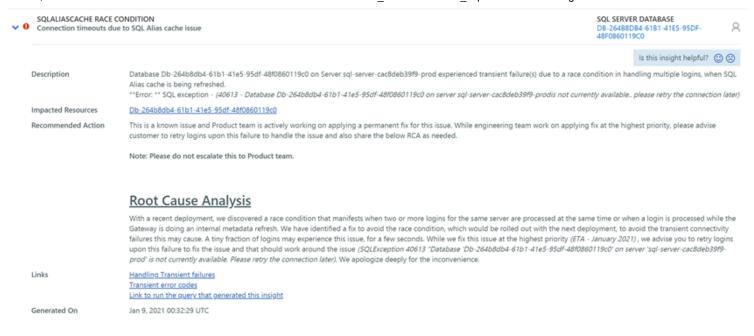
## **Error details**

A tiny fraction of logins may experience this issue for very short window (in seconds), when occurs we capture error: 40613 -State 4. internally.

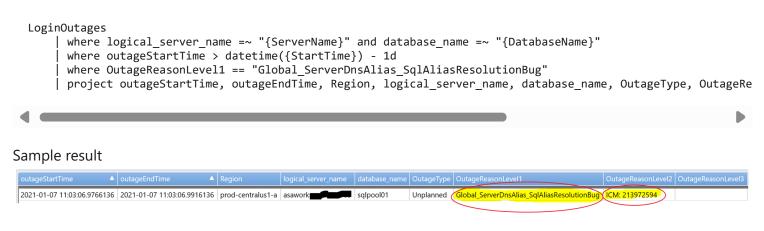
**Customer Side Error:** (SQLException 40613 "Database '[DbName]' on server '[ServerName]' is not currently available. Please retry the connection later)

# **ASC Insight**

An ASC insight will fire if experienced by customer during the impacted timeframe with recommendation and RCA to share with customer.



## Kusto to identify the issue



# Mitigation/Workaround:

Currently the workaround is to advise customer to apply retry logic to handle these transient connection failures.

## Root cause

With a recent deployment, we discovered a race condition that manifests when two or more logins for the same server are processed at the same time or when a login is processed while the Gateway is doing an internal metadata refresh. We have identified a fix to avoid the race condition, which would be rolled out with the next deployment, to avoid the transient connectivity failures this may cause. A tiny fraction of logins may experience this issue, for a few seconds. While we fix this issue at the highest priority (ETA - January 2021), we advise you to retry logins upon this failure to fix the issue and that should work around the issue (SQLException 40613 "Database 'Db-264b8db4-61b1-41e5-95df-48f0860119c0' on server 'sql-server-cac8deb39f9-prod' is not currently available. Please retry the connection later). We apologize deeply for the inconvenience.

Next Steps: Fix will be rolled by end of January 2021.

## **Feedback**

## How good have you found this content?

