[Azure PostgreSQL]- Failed with exception: handshake_failure

Last updated by | Xiaojin Wang | Sep 13, 2022 at 7:01 PM PDT

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Issue

When customer uses Azure PostgreSQL as source or sink in dataflow (preview data, debug/trigger run...). He may find job will fail with following error message:

```
PSQLException: SSL error: Received fatal alert: handshake_failure
Caused by: SSLHandshakeException: Received fatal alert: handshake_failure.
```

Root Cause

Please check if customer is using Flexible server or Hyperscale (Citus) for their Azure PostgreSQL server.

Our system is built via Spark upon Azure Databricks cluster. There is a limitation in Azure Databricks which blocks our system to connect to Flexible server or Hyperscale (Citus).

See link1 ↗

See link2 ↗

- ○ Expand Advanced Options and enter the following into the Spark Config box:

  ```
  spark.driver.extraJavaOptions -Djava.security.properties=
  spark.executor.extraJavaOptions -Djava.security.properties=
  ```

  Note: The two values in the advanced options fixes an issue caused by GCM ciphers being disabled in Databricks version 5.1 and greater. Without these settings, you will receive the following error when attempting to connect to the PostgreSQL Hyperscale cluster: `SSL error: Received fatal alert: handshake_failure` .

Resolution

Please open ICM to Azure Data Factory/ADF V2 Data Flow queue, and ask the sme to switch customer's Spark cluster from Databricks to Synapse Spark cluster.

Additional Information:

- Icm Reference: N/A
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- Reviewer: Shawn Xiao
- Keywords: PostgreSQL

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