

TLS enforced - no pg_hba.conf entry error

Last updated by | Hamza Aqel | Oct 4, 2022 at 6:01 AM PDT

This is Part of GT, refer to your EEE to change/modify it.

On Flexible server we enforce TLS connections.

We have encountered 2 related issues:

1. Some drivers can retry the connections without TLS.

Ex:

```
sergiu@MININT-OTIK0GO:/mnt/c/Users/seernu$ psql -h flexiblewesteu12burst.postgres.database.azure.com -U sergiu -d postgres
Password for user sergiu:
psql (12.4 (Ubuntu 12.4-0ubuntu0.20.04.1))
SSL connection (protocol: TLSv1.2, cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 256, compression: off)
Type "help" for help.

postgres=> \q
sergiu@MININT-OTIK0GO:/mnt/c/Users/seernu$ psql -h flexiblewesteu12burst.postgres.database.azure.com -U sergiu -d postgres
Password for user sergiu:
psql: error: could not connect to server: FATAL: password authentication failed for user "sergiu"
FATAL: no pg_hba.conf entry for host "81.196.218.144", user "sergiu", database "postgres", SSL off
sergiu@MININT-OTIK0GO:/mnt/c/Users/seernu$
```

I have entered a wrong password, and besides the authentication error it was returned that no pg_hba.conf was found for my ip. A key note here is to see that in the end is returned "**SSL off**" which points to the fact that connection was retried without SSL.

If in this case, we will enforce the connection with SSL by using "**sslmode=require**" the error regarding pg_hba.conf will not be returned.

```
root@MININT-OTIK0GO:/mnt/c/Users/seernu# psql -h flexipg-gp-weu-noha.postgres.database.azure.com -U sergiu -d postgres
Password for user sergiu:
psql: error: could not connect to server: FATAL: password authentication failed for user "sergiu"
FATAL: no pg_hba.conf entry for host "81.196.218.144", user "sergiu", database "postgres", SSL off
root@MININT-OTIK0GO:/mnt/c/Users/seernu# psql postgres://sergiu@flexipg-gp-weu-noha.postgres.database.azure.com/postgres?sslmode=require
Password for user sergiu:
psql: error: could not connect to server: FATAL: password authentication failed for user "sergiu"
root@MININT-OTIK0GO:/mnt/c/Users/seernu#
```

2. Other drivers do not use TLS by default

A customer was receiving this error:

Caused by: org.postgresql.util.PSQLException: FATAL: no pg_hba.conf entry for host "100.72.25.xx", user "skybluemso", database "keycloak", SSL off
at org.postgresql.core.v3.ConnectionFactoryImpl.doAuthentication(ConnectionFactoryImpl.java:473) at...

Again to notice "SSL off" - that could indicate an TLS related issue.

CASE SUMMARY

FATAL: no pg_hba.conf entry for host '100.72.25.xx'

RESOLUTION

Appending **sslmode=require** in the jdbc connection string manually resolved the issue

CAUSE

Flexible servers is using TLS enforced hence the error was thrown