

# Server hit maximum connection limit

Last updated by | Hamza Aqel | Aug 13, 2021 at 6:18 AM PDT

## Server hit maximum connection limit

When connections exceed the limit, you may receive the following error:

ERROR 1040 (08004): Too many connections

Maximum connections - Documented here: <https://docs.microsoft.com/en-us/azure/postgresql/concepts-limits>

The maximum number of connections per pricing tier and vCores are as follows:

## Maximum connections

The maximum number of connections per pricing tier and vCores are shown below. The Azure system requires five connections to monitor the Azure Database for PostgreSQL server.

Pricing Tier	vCore(s)	Max Connections	Max User Connections
Basic	1	55	50
Basic	2	105	100
General Purpose	2	150	145
General Purpose	4	250	245
General Purpose	8	480	475
General Purpose	16	950	945
General Purpose	32	1500	1495
General Purpose	64	1900	1895
Memory Optimized	2	300	295
Memory Optimized	4	500	495
Memory Optimized	8	960	955
Memory Optimized	16	1900	1895
Memory Optimized	32	1987	1982

ASC will show an insight if the maximum connection has been reached

Customers can check from their end: `select * from pg_stat_activity;`

this will help them understand what is causing the too many clients issue and if they need to kill a specific query they either can use this query: `pg_terminate_connection`

Or they can kill all sessions using the following query:

```
SELECT pg_terminate_backend(pg_stat_activity.pid) FROM pg_stat_activity WHERE pg_stat_activity.datname = 'TARGET_DB' -- ← change this to your DB
AND pid <> pg_backend_pid();
```

To check if the server hit Maximum connection limit, use the following Kusto query

Connection count

```
MonRdmsServerMetrics
| where TIMESTAMP >= ago(7d)
| where LogicalServerName =~ "{ServerName}"
| where metric_name == "active_connections"
| summarize max(metric_value) by bin(originalEventTimestamp, 1s), metric_name
| render timechart
```

Check the Sandbox for errors, too many clients

```
MonRdmsMySQLSandbox
| where LogicalServerName == "{ServerName}"
| where originalEventTimestamp >= datetime(2020-01-13 05:40:30.5129063) and originalEventTimestamp <= datetime(2020-01-13 05:44:47.5097171)
| where text contains "too many"
| project originalEventTimestamp, text
| limit 10
```

text
2020-02-06T20:55:02.839289Z 162323 [Note] Too many connections. Reported by thread 162323d on auth parse.
2020-02-06T21:15:55.630170Z 162411 [Note] Too many connections. Reported by thread 162411d on auth parse.
2020-02-06T21:16:37.192491Z 162414 [Note] Too many connections. Reported by thread 162414d on auth parse.
2020-02-06T21:17:03.317295Z 162416 [Note] Too many connections. Reported by thread 162416d on auth parse.
2020-02-06T21:17:16.770369Z 162417 [Note] Too many connections. Reported by thread 162417d on auth parse.
2020-02-06T21:17:25.879696Z 162418 [Note] Too many connections. Reported by thread 162418d on auth parse.
2020-02-06T21:18:25.644927Z 162422 [Note] Too many connections. Reported by thread 162422d on auth parse.
2020-02-06T21:18:37.144877Z 162423 [Note] Too many connections. Reported by thread 162423d on auth parse.

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