Connectivity Articles

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- https://docs.microsoft.com/en-us/azure/postgresql/howto-troubleshoot-common-connection-issues
- https://docs.microsoft.com/en-us/azure/postgresql/concepts-connectivity

To minimize the latency between application to db engine via gateway

- **Use drivers with connection redirection** – Connection redirection ensures that after the initial connection is established, the gateway is bypassed. For SQL Server, Azure SQL DB, since we (as Microsoft) own the code, the drivers are updated with connection redirection logic as documented in the blog below. For OSS DBs (MySQL, MariaDB and PostgreSQL), we do not own the driver code and hence the connection redirection logic is not available out of the box. We are now working with the community and trying to upstream the connection redirection logic, to ensure our customers can benefit from it and we can minimize the latency.

https://techcommunity.microsoft.com/t5/DataCAT/Connect-to-Azure-SQL-Database-V12-via-Redirection/ba-p/305362

- **Use Connection Pooling –** While in general, opening/closing new connections at the database layer is an expensive operation from performance perspective, the latency gets further amplified with gateway in the picture. It is therefore highly recommended to use connection pooling which can maintain a consistent set of connections thereby minimize the overhead of opening/closing connections. For DBs like PostgreSQL, the community has built tools like pgBouncer, pgpool which acts as proxy and can provide connection pooling between the application and db layer without modify the application. More details in blog below.

https://azure.microsoft.com/en-us/blog/performance-best-practices-for-using-azure-database-for-postgresql-connection-pooling/

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