Migrate Azure PostgreSQL to Azure PostgreSQL

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A guide for helping customers who want to migrate from Azure Database for PostgreSQL to Azure Database for PostgreSQL (e.g. XIO to PFS)

Migrate Azure DB for PostgreSQL - Single Server to Azure DB for PostgreSQL - Single Server or Hyperscale (Citus) online using DMS via the Azure portal

https://docs.microsoft.com/en-us/azure/dms/tutorial-azure-postgresql-to-azure-postgresql-online-portal ⧉

- How big are the databases?
- How much downtime can they afford?
- What region?

If they can afford the downtime taken by pg_dump and pg_restore, they should do that.

If they need online migrations, there are few more considerations we need to chat about such as the ability to create logical replication slot, table sizes, LOB distribution, etc.

When logical replication is enabled, the logical replication slot will start collecting all changes when the initial load of the tables happen from source to target. This will use disk space to store changes until they can be relayed to the target once done.

- Presence of heavy objects such as LOBs will make this process more complicated.
- Presence of large tables will also complicate this process as dump/restore needs to finish before changes are relayed across.
- The storage occupied by the slot will be directly proportional to rate of change in the DB and size of tables.

Of course, for all of this to happen, we need enough CPU and memory. The source should have enough resources available to make these go through as expected.

And once they make the determination to use DMS, they can use this guide to do the online migration (DMS supports Azure Database for PostgreSQL as a source): https://docs.microsoft.com/azure/dms/tutorial-postgresql-azure-postgresql-online-portal

If they are on Postgres 9.5 or 9.6, need to contact the Postgres engineering team, who will work with DMS on allowing IPs.

If they are on 10+, IPs will work without intervention.

DMS Pricing: https://azure.microsoft.com/pricing/details/database-migration/ free for the first 6 months They need to use the premium 4 vCores option for online migrations

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