XIO Servers Storage Limit (4TB) reached

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XIO Storage limit of 4 TB reached.

In Azure DB for PostgreSQL, Servers created before November 2019 had XIO(SBS) Storage type. The Large Storage type was introduced in November 2019 to address few limitations. One of the main limitations were reaching the disk size limit of 4 TB and IOPS limit of 6000. These were addressed with Large storage which has 16 TB storage limit and 20,000 IOPS. However, there is no way right now for a seamless migration between the two storage Engines if disk capacity of 4TB is reached on SBS Server.

PG is working on a tool to make this possible. However, as an immediate workaround, we have Data Compression option.

The setting does the following:

1. Uses the compressed size as the size reported to the customer instead of the original size.
2. The code will use the compressed size to make the decision of if the server reached 95% or so at which point the server will be set to read-only. Since compressed size will be much smaller, it will be much less than 95%. So this will protect the server from going in to read-only mode, and protect it from service outage.

Customer will notice a 3.5-4x compression on disk usage. For eg: 4 TB storage will be compressed to 1-1.5TB disk storage.

Customer will however be charged/billed for the provisioned storage size.

This is a recommended protection until the server migrated to PFS.

Customers may ask more information on what compression methods were used to reduce Data size. These code and methods are internal details on how we store the data and should not be shared outside of the org.

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