Transactional Replication

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What

Transactional replication is a feature of Azure SQL Database and SQL Server that enables you to replicate data from a table in Azure SQL Database or a SQL Server to the tables placed on remote databases. This feature allows you to synchronize multiple tables in different databases.

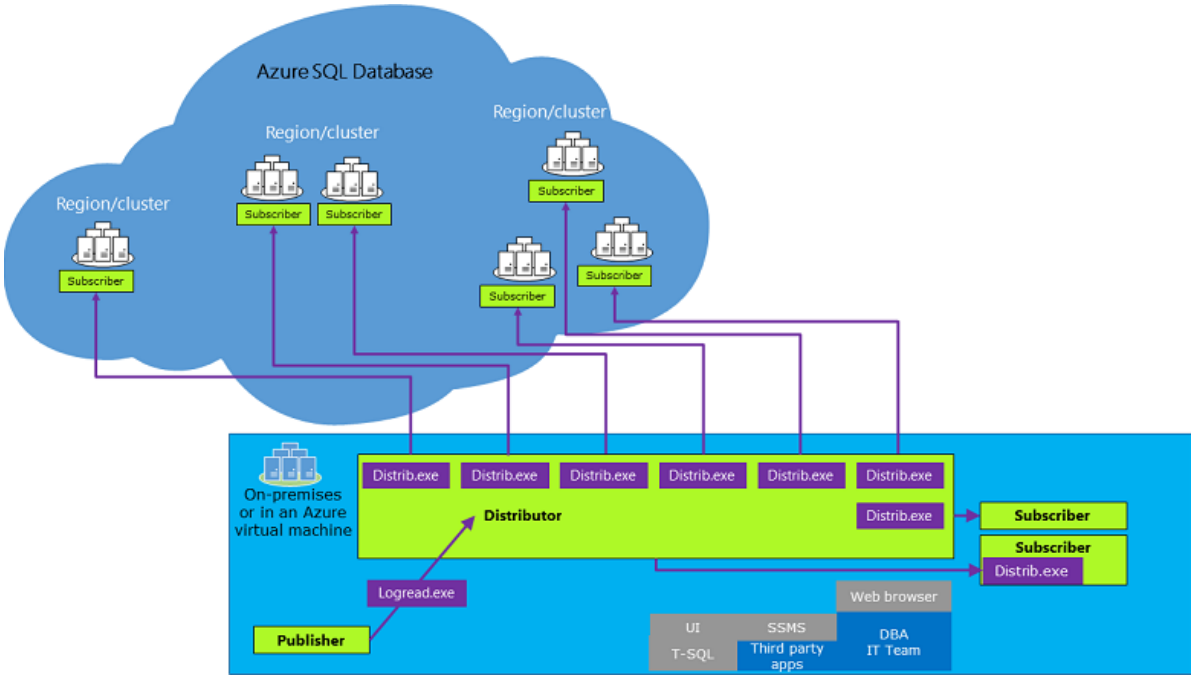
When to use Transactional replication

Transactional replication is useful in the following scenarios:

Publish changes made in one or more tables in a database and distribute them to one or many SQL Server or Azure SQL databases that subscribed for the changes.

Keep several distributed databases in synchronized state.

Migrate databases from one SQL Server or managed instance to another database by continuously publishing the changes.



The Publisher is an instance or server that publishes changes made on some tables (articles) by sending the updates to the Distributor. Publishing to any Azure SQL database from an on-premises SQL Server is supported by the following versions of SQL Server:

SQL Server 2019 (preview)

SQL Server 2016 to SQL 2017

SQL Server 2014 SP1 CU3 or greater (12.00.4427)

SQL Server 2014 RTM CU10 (12.00.2556)

SQL Server 2012 SP3 or greater (11.0.6020)

SQL Server 2012 SP2 CU8 (11.0.5634.0)

For other versions of SQL Server that do not support publishing to objects in Azure, it is possible to utilize the republishing data method to move data to newer versions of SQL Server.

The Distributor is an instance or server that collects changes in the articles from a Publisher and distributes them to the Subscribers. The Distributor can be either Azure SQL Database managed instance or SQL Server (any version as long it is equal to or higher than the Publisher version).

The Subscriber is an instance or server that is receiving the changes made on the Publisher. Subscribers can be either single, pooled, and instance databases in Azure SQL Database or SQL Server databases. A Subscriber on a single or pooled database must be configured as push-subscriber.

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