Restore a database

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How to Restore Database ?

Azure SQL Database backups are stored in geo-replicated blob storage (RA-GRS storage type) and following options are available for database recovery by using automated database backups.

User can

- Create a new database on the same SQL Database server, recovered to a specified point in time within the retention period.
- Create a database on the same SQL Database server, recovered to the deletion time for a deleted database.
- Create a new database on any SQL Database server in the same region, recovered to the point of the most recent backups.
- Create a new database on any SQL Database server in any other region, recovered to the point of the most recent replicated backups.

Storage Cost

When using the Standard or Premium service tiers, database restore might incur an extra storage cost. The extra cost is incurred when the maximum size of the restored database is greater than the amount of storage included with the target database's service tier and performance level.

Recovery/Restoration time

The recovery time to restore a database by using automated database backups is affected by several factors:

- The size of the database.
- The compute size of the database.
- The number of transaction logs involved.
- The amount of activity that needs to be replayed to recover to the restore point.
- The network bandwidth if the restore is to a different region.
- The number of concurrent restore requests being processed in the target region.

For a large or very active database, the restore might take several hours. If there is a prolonged outage in a region, it's possible that a high number of geo-restore requests will be initiated for disaster recovery. When

there are many requests, the recovery time for individual databases can increase. Most database restores complete in less than 12 hours

Topics Covered

Section includes the following TSG to handle Restore specific issues.

- Geo-Restore SLA
- Hyperscale long restore VLDB
- Dropped Database Restore
- Geo-Restore of Hyper Scale Database failed

How good have you found this content?