REPSTANCE

Data Replication and Migration

What is Repstance

Repstance is an entirely new real-time data propagation product for homogeneous and heterogeneous environments that supports various replication topologies: uni-direction, consolidation, broadcast, bi-direction, multi-master, cascading topologies, to mention a few possibilities.

Repstance supports as **Source**:

- Oracle 10g – 19c – using either, Logminer, RedoLogs or ASM to extract Data from.
- SQL Server (with the ability to enable CDC)

as **Target**:

- Oracle
- SQL Server
- PostgreSQL
- MySQL
- Aurora (using both PostgreSQL and MySQL engines)
- Redshift and SnowFlake

Repstance at a glace

Repstance is delivered as an AMI or VM instance and is accessible from both from AWS and Azure Marketplaces, using the "1 Click " download process.

Repstance supports:
- Initial data load
- Automation DML and DDL replication
- Heterogenous replication
- Objects and data transformation
- Various replication topologies
- Loopback control for true bi-directional functionality (ability to control data feedback loops)

Repstance Use Cases

- Replication and data migration with continuous high speed data transfers

- Zero downtime migration

- Zero downtime upgrade (blue/green upgrade)

- Logical standby for high availability and load distribution

- Geographical and multi-segment distributed clusters

- Disaster recovery (this option is immediately available after the first replication run)

Replication and Data Migration

- Uninterrupted real time reporting systems

- Real time decision making systems

- Data Warehouse systems, that require high synchronous data transfers and availability

- Any systems that require high volumes of data transfers in real time

- Significant cost savings by moving data to non-commercial databases (PostgreSQL/MySQL/Aurora/Redshift/Snowflake etc.)

Zero Downtime Migration

Zero Downtime Migration is implemented by preparing a duplicate database in the new location with ongoing data synchronization.

Repstance allows the preparation of a consistent database copy and keeps it in sync with the primary database. Due to high replication and migration speed the target database will be constantly updated with the close to zero lag, which allows users to be switched over to it at any chosen point.

Repstance supports true Bi-Directional replication, which allows the implementation of a migration process without having any user downtime at all.

Zero Downtime Upgrade

Zero Downtime Upgrade is the preparation of a duplicate database and installation of the new version of an application in the duplicate database with continuous user data synchronization. Once the database is upgraded and is in sync, the users can be switched to the new version.

Repstance allows the replication of data between databases having different structures.

Repstance supports various types of transformations with the ability to customize the data and database objects being processed in order to support the new version logic.

Logical Standby and Distributed Clusters

Because of the high data transfer and data utilization speeds, Repstance can be used to build high availability systems for logical standbys. Standby databases will always be in sync with all changes coming from the the Master Database and can be switched over to in seconds while simultaneously being available for all user queries and updates.

Some of the user tasks which do not alter stored data (for example reporting, data extraction, complex calculations, etc) can be "offloaded" onto the standby database/s in order to reduce the processing load of the Master Database and still have it available for user queries.

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https://www.youtube.com/watch?v=POwiJ_IK3Vk&ab_channel=Repstance