

From Source to Destination: Mastering Data Replication for Business Success

Streamline operations, improve customer satisfaction, and enable seamless decision-making with real-time data sync powered by DBSync's Data Replication Platform.

Introduction

In today's data-centric business landscape, the importance of preserving data integrity and availability cannot be overstated. Companies rely on their data for critical decision-making, customer service, and strategic planning.

Yet, transitioning from on-premises databases to cloud solutions poses significant challenges. Data migration, especially with large and complex datasets, is fraught with risks, including data loss, service disruptions, and security vulnerabilities. This is where a robust database replication solution comes to the fore.

Why do we need it?

DBSync's Database Replication product line is engineered to address all of these challenges head-on. It empowers organizations to ensure data continuity during the migration process, minimize downtime, and mitigate the risk of data loss, all while providing a secure and efficient bridge between on-premises and cloud databases. It provides a robust foundation for maintaining business continuity, supporting growth, and leveraging data for strategic decision-making. Let's take a deeper look at some of these important solutions and benefits below

High Availability (HA):

- Eliminate the need to understand the complexity of API to build custom replication or ETL jobs to start replicating your data apps.
- Minimize downtime redundant copies of the database.





 Reduce manual intervention and streamline processes with CDC to improve operational efficiency and productivity.

Geographical Distribution:

- Move up-to-date and reliable data, with CDC to improve overall data quality and integrity
- Push data into your Cloud or data lake to stage your data for Analytics and Business Intelligence.
- Provide low-latency access to data for global users.

Data Consolidation:

- Remove the need to map data using our schema synchronization between your SaaS and databases.
- Synchronize data from distributed databases into a centralized location.

Data Migration and Upgrades:

- Eliminates the need for manual and cumbersome coding.
- Ensures a smooth transition during migrations or upgrades.
- Streamlining data replication processes with CDC by automating the capture and replication of data changes.

Compliance and Auditing:

- Maintains audit logs and compliance records in a separate database.
- Ensures the integrity and security of sensitive data, meeting regulatory requirements.
- Ensuring data accuracy and consistency.CDC helps organizations meet compliance requirements by ensuring data accuracy and consistency.



Popular Use Cases

Replication tools have many useful functionalities that can help you achieve goals based on your business strategies. Thus, it's crucial to have a good understanding of their use case scenarios.

Stage a Data for Data Warehousing:

- Streamline preparation of databases for data warehousing.
- Empower end users to consolidate and analyze extensive datasets.
- Ensure a centralized data repository for improved decision-making capabilities and enhanced insights.

Hybrid Cloud Deployments

- Data replication enables seamless navigation of hybrid cloud environments.
- Access applications and data across on-premises and cloud platforms.
- Flexibility ensures uninterrupted access, fostering collaboration and boosting productivity.

Applications: Improve Test System Performance

- Data replication optimizes test system performance.
- Particularly beneficial for developers and quality assurance teams.
- Accelerate the testing process, enabling identification and resolution of issues before applications go
 live, guaranteeing a superior user experience.

Data Distribution for Global Operations

- Leverage data distribution capabilities for organizations with global operations.
- Ensure worldwide access to the most relevant and up-to-date information.
- Minimize latency, providing swift data access irrespective of geographical location, enhancing the overall user experience.

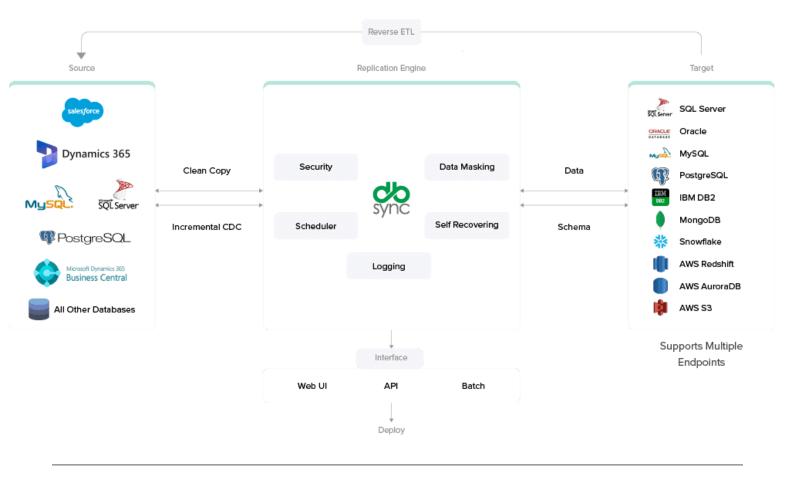
Reduce Mundane and Repetitive Tasks

- Data replication tools automate replication processes.
- Reduce manual intervention in mundane tasks.
- Enable IT administrators and end users to focus on strategic activities, increasing operational efficiency and fostering a more fulfilling work experience





Architecture and Data Flow



Leading the Way with G2 Recognition

Witness the impact of G2 recognition on our journey, as we continually strive to lead, innovate, and exceed expectations.





Case Study



The Bank of Nova Scotia, operating as Scotiabank, is a Canadian multinational banking and financial services company. It is one of the top six banks in Canada.

Scotiabank was implementing 15+ Salesforce instances and required a solution for its data warehousing while meeting compliance requirements. They required the ability to back up the CRM data into a local Oracle instance. DBSync was able to quickly set up its Oracle data warehouse and archiving requirements.

Challenges faced

- Rollout to multiple instances of Salesforce to multiple divisions across multiple countries
- Create a Data warehouse with Salesforce data
- Comply with SOX and FINRA requirements

Solution

- I selected DBSync after 8 months of extensive feature and security evaluation, including comparing it to other leading ETL and replication tools on the market.
- We provided a self-contained environment to comply with their IT security requirements, which would not require access to any other application than Salesforce.

Client Speak

"DBSync saved us a lot of development time when performing data transfers between Salesforce and our servers. The tool is also easy to maintain, and the failure rate to backup Salesforce objects fell significantly."

Samuel Tang, Senior Developer



Key Features

SaaS and Database Replication	
Ideal For?	Enterprises requiring easy access to Business Data In-house Regulatory and Compliance Archiving Data Warehousing and Data Lake for BI/AI/ML
Sources	Salesforce, Dynamics 365, Business Central, MySQL, SQL, Postgres and others
Supported Endpoints	SQL Server, MySQL, PostgreSQL, Oracle, IBM Db2, Aurora DB, MongoDB, Redshift, Snowflake, S3, MinIO, Azure Synapse, Databricks and more
Real-Time Data Sync with CDC	Harness the power of Change Data Capture (CDC) for real-time, accurate data synchronization. DBSync's CDC technology minimizes system load while maximizing data consistency and efficiency.
Big Data Support	Cloud Replication's support for Amazon Redshift, AWS S3, Databricks, Azure Synapse, Azure Blob, etc helps you harness the power of Big Data for your business
Data Security	Data masking option to make sure sensitive data secure
Quick & Easy Deployment	An intuitive GUI eliminates the need for manual coding. Be up and running in under 1 hour
Compliance	Meet, HIPAA and other requirements while safeguarding historical reporting and audit data
Automate Repetitive Tasks	Automatic schema creation and adjustment means zero effort in mapping schemas
Easily Manage Sandboxes	Sandbox seeding and Sandbox replication support
API & Batch	API, Windows Batch Script, Shell Scripts
Deployment	EXE (Windows), Zip (Linux, Mac), Docker, AWS AMI

