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# DataDios Metadata Synchronization

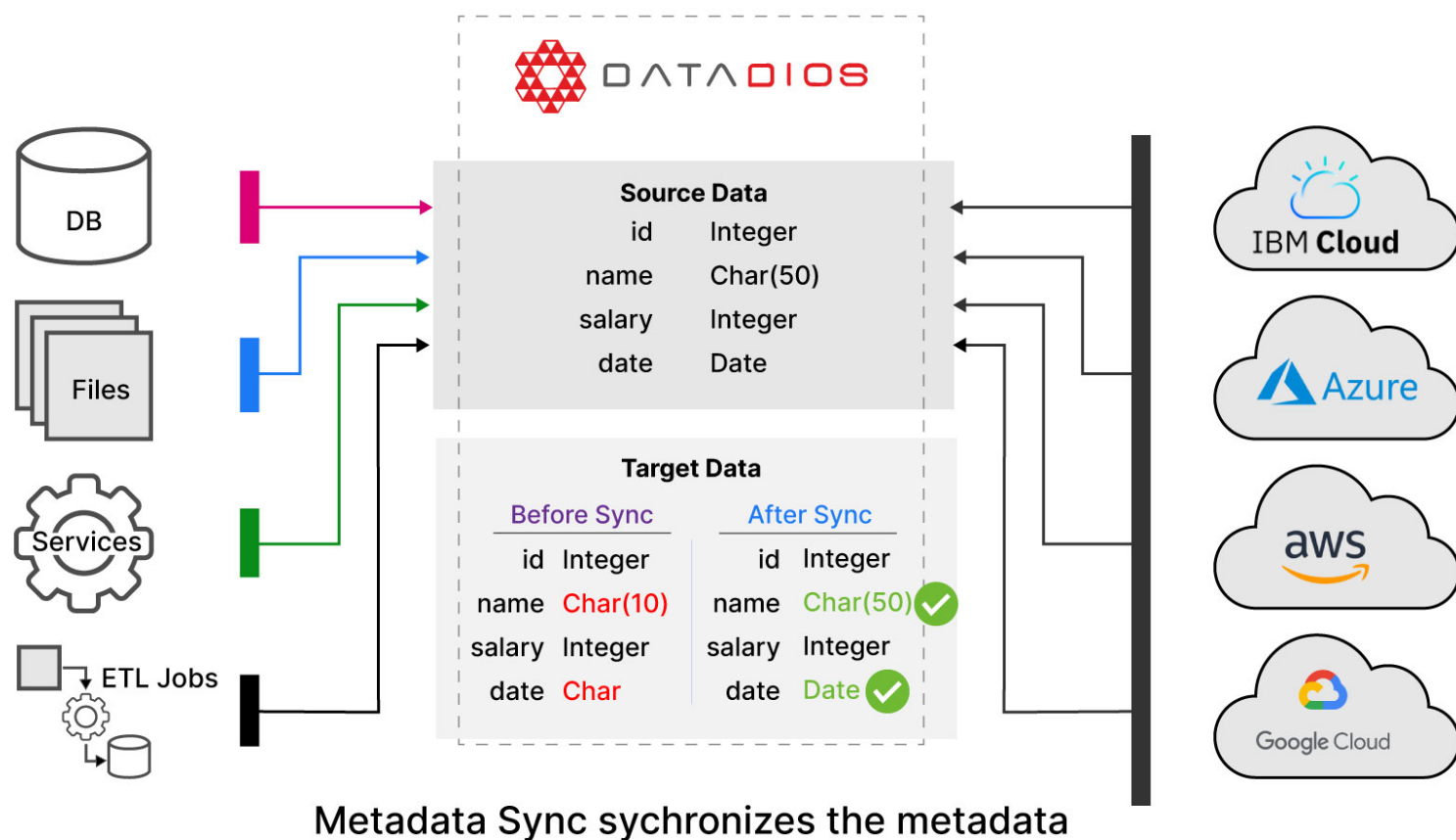
## Contact Us

nFolks Data Solution LLC,  
156<sup>th</sup> Ave NE, Suite 100 Building F,  
Bellevue, WA 98007  
+1 (425) 533-9681

[www.nfolksdata.com](http://www.nfolksdata.com)

## Key Features: Metadata Synchronization

DataDios Cloud Accelerator platform provides Metadata Synchronization feature that migrates metadata between any data sources, including databases and data governance systems. It supports all types of metadata and governances which works seamlessly on both on-premises and on-cloud platforms. The feature can migrate metadata to a target data source, and its smart delta capability reduces redundancy by allowing only the changes to be moved.



## The Importance of DataDios Metadata Sync in Data Source Migrations

- DataDios Metadata Sync is a crucial component in data source migration projects as it ensures that the target data source systems remain in sync.
- With DataDios Metadata Sync, you can track metadata changes of a data source without migrating it to any other data source.
- This is particularly useful when you need to keep a record of changes in metadata, but don't necessarily need to migrate the data.
- By tracking metadata changes, you can ensure that the target data source remains up-to-date and accurate.

## Benefits of Using DataDios Metadata Sync

- **Efficient Metadata Migration:** With DataDios Metadata Sync, you effortlessly migrate metadata and synchronize differences without reimporting the entire dataset. It identifies and migrates only the delta changes to the target data source, saving time and effort.
- **Synchronization Log:** DataDios Metadata Sync keeps a log of each synchronization, making it easier to track and review updates made at any date and time. This ensures that the target data source remains accurate and up-to-date with the latest metadata changes.
- **Data Lineage Graph:** DataDios Metadata Sync provides a Data Lineage Graph that gives a full overview of how the data flows throughout the data source and the dependencies between the items. This provides a better understanding of the source and structure of the data, which can be valuable in data migration and data management projects.

## Smart Delta Feature of DataDios Metadata Sync

- **Reduces Redundancy:** DataDios Metadata Sync's Smart Delta feature reduces redundancy in metadata migration by identifying and migrating only the changes to the target data source.
- **Migrates Only Changes:** With the Smart Delta feature, you can move only the changes to the target data source, saving time and effort and ensuring that the target data source remains accurate and up-to-date.



## Data Lineage Graph Feature of DataDios Metadata Sync

- **Built-in Lineage Graph:** DataDios Metadata Sync includes a built-in lineage graph feature that provides a visual representation of the overall flow of the data.
- **Nodes and Edges:** The lineage graph consists of nodes and edges. Each node represents a corresponding item or object in the Data source, while each edge shows a relationship between nodes.
- **Better Data Understanding:** The lineage graph provides a better understanding of the source and structure of the data, which can be valuable in data migration and data management projects.

## Logs

- **Comprehensive Metadata Tracking:** DataDios Metadata Sync captures all metadata, changes, and lineage details with timestamps, making it easy to track and review updates made to the data source.
- **Time-Stamped Tracking:** The timestamps enable you to check the source metadata and previously imported data at a particular time, which is valuable for data management and troubleshooting purposes

## DataDios Metadata Sync Workflow Process for Metadata Migration

Here are the steps involved in the workflow process for migrating metadata:

1. Create a Workflow
2. Export Metadata
3. Find Delta Changes
4. Convert Target Metadata
5. Import Metadata
6. Sync Workflows (Optional)

### Step 1: Create a Workflow

- Select the source and target Data sources. Additional information can be provided if necessary for the migration process.
- **Optional Target Data Source:** The target Data source can be optional where only source metadata tracking is required, without migrating into target. In this scenario, Step 4 and Step 5 will not be required.

### Step 2: Export Metadata

- After creating the workflow, start the Metadata export step. This will export the Source metadata and relationship data.
- Upon completion of the export process, the current and previously exported metadata will be displayed alongside with three options:
  - **Summary:** Provides a graphical view of the exported data.
  - **List Items:** Displays a list of items with details.
  - **Data Lineage:** Provides a clear and intuitive view of the multiple layers of the exported data and its relationships between items.

### Step 3: Find Delta Changes

- Delta finding is a crucial step in metadata synchronization.
- Smart Delta is an intelligent difference engine that captures only the changes in the currently exported metadata.
- Smart Delta displays the differences with color coding and allows you to drill down to the column level changes.

### Step 4: Convert Target Data

- After identifying the changes in the source metadata, the data will be converted into the desired target format.
- This step only converts the changes, which will be displayed with color coding to show the differences.

### Step 5: Import Metadata

- Import the converted metadata into the target database.
- Additional information can be provided.
- View the list of imported items on the final page.

### Step 6: Synchronize Workflows



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- If any changes have been made to the source metadata and you want to move only those changes to the target, you can create a Sync Workflow.
  - Steps 2 to 6 will be performed to import only the changes to the target database, so that both source and target remain in sync.
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