



DATA FABRIC MIGRATION TOOL

1.0

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About this guide

Intended audience

- This utility is to be used by Administrators / Migration Specialists who have knowledge on Data Fabric, handling JSON/CSV files and Infor OS knowledge base.

Related documents

- You can find more information on Infor OS and Data Fabric on docs.infor.com.

Contacting Infor

- Infor offers this product as complimentary content. As such, it does not fall under standard Infor support and is self-supported.

Overview

A "Datafabric Migration Utility" is a software utility designed to help users manage and interact with a data fabric — an integrated data management system. It would offer features like visualizing the data fabric, configuring settings, ensuring security, managing data integration, and optimizing performance, all through an easy-to-use interface.

The key features provided by the tool are described below:

1. **Single File Upload:** This will allow users to upload data of a single file to a schema in Infor's Datalake.
2. **Multi File Upload:** This will allow users to upload data of up to 20 files to a schema in Infor's Datalake.
3. **Batch Upload:** This will allow users to upload data of multiple files to multiple schemas in Infor's datalake.
4. **Get Data:** This will allow users to extract/retrieve data from data lake. The users can extract up to 100,000 records and can download them in either a CSV file or NDJSON file.

Requirements

System requirements

1. Windows 11 Operating System.
2. The user must have an Intel i5+ processors, in case of AMD processors it must be greater than Ryzen5.
3. The user must have 500 MB of Disk space in the system and 8GB RAM memory.
4. For batch upload, for every 100GB data that the user wants to upload, the system must have at least 2GB free disk space available in that drive.

Permissions

The user must have appropriate permissions for uploading and extracting data from data lake. The user must also have an authorized app which is of type backend service.

Schemas

The schemas should already be present in data lake before the user starts uploading the data.

Installation

Download the Executable

1. Visit Infor's marketplace, where you can find the Datafabric Migration Utility.
2. Click on the download button to initiate the download of the tool's executable file.

Execute the Installer

1. Once the download is complete, navigate to the location where the executable file has been saved on your computer.
2. Double-click on the downloaded executable file. This action will start the installation process.

Follow the Installation Wizard

1. The installer will launch and present you with an installation wizard. This wizard will guide you through the installation process.
2. You may be asked to choose the installation location for the application. The default location is often provided, but you can typically customize it to your preference.
3. The installer will copy files, configure settings, and create shortcuts as needed.

Completion

1. Once the installation is successfully completed, you will receive a confirmation message.
2. You may be given the option to launch the application immediately. If not, you can usually find a shortcut to the application in your Start Menu on your Windows desktop.
3. You have now successfully installed the application. You can begin using it according to your requirements.

For more details please check the below video:

<https://player.vimeo.com/video/867217455?h=5de9fb56ee>

Key Features

The tool provides lot of features for the end users to be able to use. This section will guide users to understand, how the tool works.

Authentication:

When a user first installs the tool, they will notice that few of the tabs are in a disabled state. This is a security measure to ensure that only authorized users can access and use the tool's features.

- **Authentication Requirements**
 1. **Disabled Feature Tabs:** Upon initial installation, all the feature tabs within the tool's interface will be grayed out or inaccessible. This means that the user cannot interact with or access any of these features.
 2. **User Authentication:** Authentication is a process that confirms the user's identity and ensures that they have the necessary permissions to use the tool.
- **Uploading the Authorized App**
 1. **Uploading an Authorized App:** To initiate the authentication process, the user needs to upload an authorized app of backend service type. This app serves as a means of verifying the user's credentials and permissions.
- **Enabling the Tabs**
 1. **Tabs Activation:** The feature tabs will be enabled upon successful authentication and the user can click on them to access their respective features.

Single File Upload

This feature is designed to facilitate the process of uploading a single file data to Datalake. It streamlines the process into a few simple steps:

- **File Selection**
 - **Select Button:** To initiate the file upload process, the user first needs to click on the "Select" button. This action prompts a file dialog.
 - **Choose a File:** In the file dialog, the user can browse and select the file they want to upload. This file could be either a .CSV or .JSON(with NdJSON data) file.

- **Schema Selection**

- **Dropdown Menu:** Once the file is selected, the user is presented with a dropdown. This dropdown contains a list of available schemas in that specific tenant. If the schema is newly created, please authenticate yourself again to get the updated list of schemas. The user can type the schema name and the drop-down will filter out the schema names based on the entry provided.
- **Custom Schema Entry:** Alternatively, the user also has the option to type the schema name directly into a required field if the desired schema is not available in the dropdown.

- **Completing the Process**

- **Upload Button:** With both the file and the schema specified, the user can proceed by clicking on the "Upload" button. This action initiates the file upload process.

- **Confirmation**

- **Successful Upload:** After successful processing, the user receives a confirmation message indicating that the file has been uploaded to the specified schema.

Multi File Upload

This feature is designed to facilitate the process of uploading multiple files to a specified schema. It streamlines the process into a few simple steps:

- **File Selection**

- **Select Button:** To initiate the file upload process, the user first needs to click on the "Select" button. This action prompts a file dialog.
- **Choose a File:** In the file dialog, the user can browse and select the files(up to 20) they want to upload. This file could be either a .CSV or .JSON(with NDJSON data) file.

- **Schema Selection**

- **Dropdown Menu:** Once the files are selected, the user is presented with a dropdown. This dropdown contains a list of available schemas within the data lake. If the schema is newly created, please authenticate yourself again to get the updated list of schemas. The user can type the schema name and the drop-down will filter out the schema names based on the entry provided.
- **Custom Schema Entry:** Alternatively, the user also has the option to type the schema name directly into a required field if the desired schema is not available in the dropdown.

- **Completing the Process**
 - **Upload Button:** With both the files and the schema specified, the user can proceed by clicking on the "Upload" button. This action initiates the file upload process.
- **Confirmation**
 - **Successful Upload:** After successful processing, the user receives a confirmation message indicating that the files have been uploaded to the specified schema.

Batch Upload

This advanced feature streamlines the process of uploading multiple files to multiple schemas in a highly organized and efficient manner:

- **Workspace Preparation**
 1. **User Workspace:** Users begin by creating a "workspace." The workspace is essentially a designated folder or directory where users can organize the files they want to upload.
 2. **Schema-file based Organization:** Within the workspace, users arrange files in a schema-file based manner. Each folder within the workspace represents a specific schema name, and the files contained within each folder are intended for upload to that schema.
- **File Organization**
 1. **Folder Naming:** Users ensure that the name of each subfolder within the workspace corresponds to the name of a schema within the application. This establishes a clear association between the files and their intended schemas.
 2. **File Selection:** Within each subfolder, users place the files they want to upload to the corresponding schema. These files can be of various types, including documents, images, spreadsheets, or any supported file format.
- **Uploading in a Single Click**
 1. **Workspace Selection:** Within the application, users navigate to the upload feature and select the entire workspace folder, rather than individual files.
 2. **Bulk Processing:** Upon selecting the workspace, click on the "start the process" button. Upon that action, the application initiates a bulk processing operation. It scans the workspace and identifies the schema names based on the subfolder names. It then

associates each file within the subfolder with the respective schema and then starts uploading the files to the data lake.

- **Confirmation**

1. **Successful Upload:** After successful processing, the user receives a confirmation message indicating that the files have been uploaded to the specified schema.

Get Data:

This feature empowers users to extract/retrieve the data from a Datalake by running queries. It provides a flexible and user-friendly interface for querying and retrieving data:

- **Query Definition**

1. **Query Editor:** Users can define their queries in a dedicated query editor field. They have the flexibility to either type the query manually or copy and paste it from another source. This allows users to specify the exact criteria for data extraction.
2. **Limit and Offset:** Additionally, users can specify parameters such as the desired "limit" (number of rows to retrieve) and "offset" (the starting position for retrieval). These parameters help users refine the scope of their query results.

- **Query Execution**

1. **Run Button:** After defining the query, users initiate the extraction process by clicking the "Run" button. This action triggers the execution of the query against the data lake.
2. **Query Status:** During execution, users can monitor the status of the query in real time. They are provided with essential information, such as the unique "query ID" and the "current status" of the query (e.g., running, finished, canceled, or failed).

- **Result Presentation**

1. **Popup Window:** Upon successful execution of the query, the query results are presented in a separate popup window.
2. **Query ID:** The popup window typically displays the query ID prominently as the title, allowing users to reference or track the executed query for future purposes.

- **Data Download Options**

1. **Data Formats:** Users have the option to download the query results in their preferred data format. Commonly, two formats are provided: CSV (Comma-Separated Values) and NDJSON (Newline-Delimited JSON).
2. **Download Buttons:** In the popup window, distinct buttons for CSV and NDJSON downloads are available. Users can select the appropriate format based on their use case.

FAQs (Frequently Asked Questions) Section

The FAQs section is a valuable resource for users, designed to address common queries and provide quick answers to their most frequent concerns:

- **Accessing FAQs**

1. **Navigation:** Users can easily access the FAQs section through the application's FAQs section.

- **Common Questions**

1. **Comprehensive Answers:** The FAQs section includes a list of the most common questions asked by users regarding the application, its features, usage, or policies.
2. **Clear Explanations:** Each question is followed by a clear and concise answer that provides users with the information they need. The goal is to resolve their queries without the need for further assistance.

Contact Us Section

The Contact Us section serves as a direct channel for users to reach out to the Infor Labs team for personalized assistance:

- **Accessing Contact Information**

Contact Details: Users can find the contact details for the Infor Labs team in this section. Typically, this includes an email address.

Limitations

- The input file must be in a .CSV or a .JSON file format.
- The JSON file must have data in the NDJSON format (Newline Delimiter).