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Preface

The Microsoft Azure Data Lake Store V2 Connector Guide contains information about how to set up and use Microsoft Azure Data Lake Store connections. This guide explains how organization administrators and business users can use Microsoft Azure Data Lake Store V2 Connector to read data from and write data to Microsoft Azure Data Lake.

Informatica Resources

Informatica Documentation

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services Web Site

You can access the Informatica Intelligent Cloud Services web site at http://www.informatica.com/cloud. This site contains information about Informatica Cloud editions and applications as well as information about other Informatica Cloud integration services.

Informatica Cloud Communities

Use the Informatica Cloud Community to discuss and resolve technical issues in Informatica Cloud. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Cloud Community at:


To find resources on using Cloud Application Integration (the Informatica Cloud Real Time service), access the community at:

https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-application-integration/content

Developers can learn more and share tips at the Cloud Developer community:

Informatica Cloud Marketplace
Visit the Informatica Marketplace to try and buy Informatica Cloud Connectors, Informatica Cloud integration templates, and Data Quality mapplets:


Informatica Cloud Connector Documentation
You can access documentation for Informatica Cloud Connectors at the Informatica Cloud Community:
https://network.informatica.com/cloud/index.htm
You can also download individual connector guides: https://network.informatica.com/docs/DOC-15333.

Informatica Knowledge Base
Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit https://kb.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Cloud Trust Site
You can access the Informatica Cloud trust site at http://trust.informaticacloud.com. This site provides real time information about Informatica Cloud system availability, current and historical data about system performance, and details about Informatica Cloud security policies.

Informatica Global Customer Support
You can contact a Customer Support Center by telephone or online.

For online support, click Submit Support Request in the Informatica Cloud application. You can also use Online Support to log a case. Online Support requires a login. You can request a login at https://network.informatica.com/welcome.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at https://www.informatica.com/services-and-training/support-services/contact-us.html.
CHAPTER 1

Introduction to Microsoft Azure Data Lake Store V2 Connector

This chapter includes the following topics:

- Microsoft Azure Data Lake Store V2 Connector Overview, 6
- Introduction to Microsoft Azure Data Lake Store, 6
- Microsoft Azure Data Lake Store V2 Connector Example, 7
- Microsoft Azure Data Lake Store V2 Connector Task and Object Types, 7
- Administration of Microsoft Azure Data Lake Store V2 Connector, 7

Microsoft Azure Data Lake Store V2 Connector Overview

You can use Microsoft Azure Data Lake Store V2 Connector to connect to Microsoft Azure Data Lake Store from Informatica Cloud.

Use Microsoft Azure Data Lake Store V2 Connector to read delimited data from and write delimited data to Microsoft Azure Data Lake Store. You can use Microsoft Azure Data Lake Store objects as sources and targets in Data Synchronization tasks, mappings, and Mapping Configuration tasks.

Introduction to Microsoft Azure Data Lake Store

You can use Microsoft Azure Data Lake Store to store data irrespective of size, structure, and format. Use Microsoft Azure Data Lake Store to process large volumes of data to achieve faster business outcomes.

The Microsoft Azure Data Lake Store is a combination of following primary services:

- Microsoft Azure Data Lake Store: Microsoft Azure Data Lake is an Hadoop Distributed File System (HDFS) compatible data repository that stores structured, semi structured, and unstructured data of your organization in native format. Data scientists and data analysts can use data in the Data Lake to find out specific patterns before you move the analyzed data to a data warehouse.
• Azure HDInsight: Azure HDInsight is an Apache Hadoop distributed system that is configured with cloud. HDInsight supports the Hadoop components such as Apache HBase, Apache Spark, and Apache Storm and other technologies under the Hadoop system.

• Data Lake Analytics: Data Lake Analytics manages the distributed infrastructure. You can dynamically allocate and de-allocate resources with Microsoft Azure Data Lake Store Analytics so that you can pay for services that you use.

Microsoft Azure Data Lake Store V2 Connector Example

You work as a data analyst for a large financial enterprise. The enterprise performs risk management, fraud detection, and other analysis with Microsoft Azure Data Lake Analytics. You need to write the unstructured, structured, and semi structured data to Microsoft Azure data Lake store to perform the analytics.

You can use Microsoft Azure Data Lake Store V2 Connector and create a Data Synchronization task or Mapping to read data from sources such as relational or transactional database or other applications such as Salesforce and write data to Microsoft Azure Data Lake Store. After the data is available in the Microsoft Azure Data Lake Store, you can perform the data analytics.

Microsoft Azure Data Lake Store V2 Connector Task and Object Types

The following table lists the Microsoft Azure Data Lake object types that you can include in Informatica Cloud tasks:

<table>
<thead>
<tr>
<th>Task Type</th>
<th>Source</th>
<th>Target</th>
<th>Lookup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Synchronization</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mapping</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Mapping Configuration</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Administration of Microsoft Azure Data Lake Store V2 Connector

Before you use Microsoft Azure Data Lake Store objects in tasks, an administrator must perform the following tasks:

• Create a Microsoft Azure Data Lake Store.
• Authorize users to access the Microsoft Azure Data Lake Store and the directory in the Data Lake Store.

• Create an Azure AD web application for service-to-service authentication with Azure Data Lake Store. For information on service-to-service authentication of your web application, see, https://kb.informatica.com/howto/6/Pages/20/512374.aspx.

  **Note:** Ensure that you have superuser privileges to access the folders or files created in the application using the connector.

• Ensure that you have license for the SDKPatch package for your Informatica Cloud organization.
Microsoft Azure Data Lake Store V2 Connections

This chapter includes the following topics:

- Microsoft Azure Data Lake Store V2 Connection Overview, 9
- Microsoft Azure Data Lake Store V2 Connection Properties, 9

Microsoft Azure Data Lake Store V2 Connection Overview

Create a Microsoft Azure Data Lake Store connection to access Microsoft Azure Data Lake data from Informatica Cloud. You can create a connection on the Connections page or when you create a task. After you create a connection, it becomes available to all users who have access to the organization.

Use the connection when you create a Data Synchronization task or a Mapping Configuration task. You can specify the Microsoft Azure Data Lake Store source and target in mappings, Mapping Configuration tasks, or Data Synchronization tasks.

Microsoft Azure Data Lake Store V2 Connection Properties

When you set up a Microsoft Azure Data Lake connection, you must configure the connection properties.

The following table describes the Microsoft Azure Data Lake connection properties:

<table>
<thead>
<tr>
<th>Connection Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection Name</td>
<td>Name of the Microsoft Azure Data Lake Store connection.</td>
</tr>
<tr>
<td>Description</td>
<td>Description of the connection. The description cannot exceed 765 characters.</td>
</tr>
<tr>
<td>Type</td>
<td>Type of connection. Select the Microsoft Azure Data Lake connection.</td>
</tr>
<tr>
<td>Connection Property</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Runtime Environment</td>
<td>The name of the runtime environment where you want to run the tasks.</td>
</tr>
<tr>
<td>ADLS Account Name</td>
<td>The name of the Microsoft Azure Data Lake Store.</td>
</tr>
<tr>
<td>Directory</td>
<td>The Microsoft Azure Data Lake Store directory that you use to read data or write data. The default is root directory.</td>
</tr>
<tr>
<td>AuthEndpoint</td>
<td>The OAuth 2.0 token endpoint from where authentication based on the client ID and Client secret is completed. For example, <code>https://login.microsoftonline.com/2638f43e-f77d-4fc7-ab92-7b753b7876fd/oauth2/token</code>.</td>
</tr>
</tbody>
</table>
Data Synchronization Tasks with Microsoft Azure Data Lake Store V2

This chapter includes the following topics:

- Microsoft Azure Data Lake Store V2 Sources in Data Synchronization Tasks, 11
- Microsoft Azure Data Lake Store V2 Targets in Data Synchronization Tasks, 12
- Microsoft Azure Data Lake Store V2 Target Data Synchronization Example, 14

Microsoft Azure Data Lake Store V2 Sources in Data Synchronization Tasks

When you configure a Data Synchronization task to use a Microsoft Azure Data Lake Store V2 source, you can configure the source properties.

The source properties appear on the Source page of the Data Synchronization Task wizard when you specify a Microsoft Azure Data Lake Store V2 connection.

The general properties display the name and description of the Microsoft Azure Data Lake source. Configure the source properties for the source object.

The following table describes the Microsoft Azure Data Lake Store V2 source properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Name of the connection.</td>
</tr>
<tr>
<td>Source Type</td>
<td>Select Single.</td>
</tr>
</tbody>
</table>
### Property Description

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Object</td>
<td>Source object for the Data Synchronization task. Select the file from which you want to read data.</td>
</tr>
</tbody>
</table>
| Formatting Options| Opens the **Formatting Options** dialog box to define the format of the file. Configure the following format options:  
- Delimiter: Delimiter character. You can configure other parameters such as comma, tab, colon, semicolon, or others.  
- Text Qualifier: Character to qualify text. You can configure other parameters such as single quote or double quote.  
- Escape: Escape character. |

The following table describes the Microsoft Azure Data Lake Store V2 source advance properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directory Path Override</td>
<td>The Microsoft Azure Data Lake Store directory that you use to read data. Default is root directory. The directory path specified at run time overrides the path specified while creating a connection.</td>
</tr>
<tr>
<td>File Name Override</td>
<td>Source object for the Data Synchronization task. Select the file from which you want to read data. The file specified at run time overrides the file specified in Source Object.</td>
</tr>
</tbody>
</table>
| Import Column From First Line | Specifies the read behavior for the header row. You can set the parameter to:  
- Enabled: the first row is treated as the header row and the first row is skipped at run time.  
- Disabled: reads the entire file including the header row. Use this option for files that do not have header rows.  
**Note:** During the metadata import, you must have a header row in the source file. |

---

### Microsoft Azure Data Lake Store V2 Targets in Data Synchronization Tasks

When you configure a Data Synchronization task to perform operations on a Microsoft Azure Data Lake Store V2 target, you can configure the target properties.

The target properties appear on the **Target** page of the Data Synchronization Task wizard when you specify a Microsoft Azure Data Lake Store V2 connection. The general properties display the name and description of the Microsoft Azure Data Lake Store V2 target. When you write data to Microsoft Azure Data Lake Store, you can use the create target field to create a target at run time. When you create a new target based on the source, you must remove all the binary fields from the mapping.

The following table describes the Microsoft Azure Data Lake Store V2 target properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Name of the target connection.</td>
</tr>
<tr>
<td>Target Object</td>
<td>Specify the target object for the task.</td>
</tr>
</tbody>
</table>
### Formatting Options

Opens the **Formatting Options** dialog box to define the format of the file. Configure the following format options:

- **Delimiter**: Delimiter character. You can configure other parameters such as comma, tab, colon, semicolon, or others.
- **Text Qualifier**: Character to qualify text. You can configure other parameters such as single quote or double quote.
- **Escape**: Escape character.

### Create Target

Creates a target. Enter a name and path for the target object and select the source fields that you want to use. By default, all source fields are used.

For Date data type, use the edit types in the field mapping tab to change the precision to 29 and scale to 0. The task might fail if you do not change the precision and scale value for date data types.

### Child Object

Not applicable to Microsoft Azure Data Lake Connector.

---

The following table describes the advanced target properties for Microsoft Azure Data Lake Store V2:

<table>
<thead>
<tr>
<th>Advanced Target Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Directory Path</strong></td>
<td>The Microsoft Azure Data Lake Store directory that you use to write data. Default is root directory. The Secure Agent creates the directory if it does not exist. The directory path specified at run time overrides the path specified while creating a connection.</td>
</tr>
<tr>
<td><strong>File Name</strong></td>
<td>Source object for the Data Synchronization task. Select the file from which you want to write data. The file specified at run time overrides the file specified in Target Object.</td>
</tr>
<tr>
<td><strong>If file exists</strong></td>
<td>If the files exists in Microsoft Azure Data Lake Store, you can select to overwrite or append the existing file. You can also select the current task to fail.</td>
</tr>
</tbody>
</table>
| **Generate Header**       | Specifies the write behavior for the header row. You can set the parameter to:  
- **Enabled**: writes the header row.  
- **Disabled**: does not write the header row.  
  **Note**: During the metadata import, you must have a header row in the target file. |
| **Success File Directory** | NA |
| **Error File Directory** | NA |
Microsoft Azure Data Lake Store V2 Target Data Synchronization Example

You are a Data Analyst in a financial enterprise. You need to perform data analysis on the business opportunities that you have in pipeline.

Configure a Data Synchronization task with the insert operation and configure the following objects:

**Source**

The source object for a Data Synchronization task is Salesforce. Use the Salesforce connection to connect to Salesforce and read data from the Opportunity object. Use the Opportunity source object in the Data Synchronization task. The source includes fields, such as Id, AccountID, Name, Amount, and ExpectedAmount.

**Target**

The target in a Data Synchronization task is Microsoft Azure Data Lake Store. Use the Microsoft Azure Data Lake Store V2 connection to connect to Microsoft Azure Data Lake Store. The target includes fields, such as Id, AccountID, Name, Amount, and ExpectedRevenue.

**Mapping**

Map the primary fields of the Opportunity source object to the target object.

The following image shows the mapping of the source with the Opportunity target:

When you run the Data Synchronization task, the Secure Agent writes the retrieved opportunity information to the target table.

The following image shows the data that the Secure Agent retrieves from Salesforce and writes to Microsoft Azure Data Lake Store based on the fields you mapped in the Data Synchronization task:
This chapter includes the following topics:

- Mappings Microsoft Azure Data Lake Store V2 Overview, 15
- Microsoft Azure Data Lake Store V2 Sources in Mappings, 16
- Microsoft Azure Data Lake Store V2 Targets in Mappings, 16

Mappings Microsoft Azure Data Lake Store V2 Overview

Use the Informatica Cloud Mapping Designer to create a mapping. When you create a mapping, you configure a source or target to represent a single Microsoft Azure Data Lake object.

Describe the flow of data from source and target along with the required transformations before the Secure Agent writes data to the target. When you create a Mapping Configuration task, select the mapping that you want to use. Use the Mapping Configuration Task wizard to create a Mapping Configuration task. The Mapping Configuration task processes data based on the data flow logic you define in the mapping.
Microsoft Azure Data Lake Store V2 Sources in Mappings

In a mapping, you can configure a source transformation to represent a single Microsoft Azure Data Lake object.

The following table describes the Microsoft Azure Data Lake Store V2 source properties that you can configure in a source transformation:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Name of the source connection.</td>
</tr>
<tr>
<td>Source Type</td>
<td>Select Single Object or Parameter.</td>
</tr>
<tr>
<td>Object</td>
<td>Name of the source object.</td>
</tr>
<tr>
<td>Formatting Options</td>
<td>Opens the Formatting Options dialog box to define the format of the file.</td>
</tr>
<tr>
<td></td>
<td>Configure the following format options:</td>
</tr>
<tr>
<td></td>
<td>- Delimiter: Delimiter character. You can configure other parameters such as comma, tab, colon, semicolon, or others.</td>
</tr>
<tr>
<td></td>
<td>- Text Qualifier: Character to qualify text. You can configure other parameters such as single quote or double quote.</td>
</tr>
<tr>
<td></td>
<td>- Escape: Escape character.</td>
</tr>
</tbody>
</table>

The following table describes the Microsoft Azure Data Lake Store V2 source advance properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directory Path Override</td>
<td>The Microsoft Azure Data Lake Store directory that you use to read data. Default is root directory. The directory path specified at run time overrides the path specified while creating a connection.</td>
</tr>
<tr>
<td>File Name Override</td>
<td>Source object. Select the file from which you want to read data. The file specified at run time overrides the file specified in Object.</td>
</tr>
<tr>
<td>Import Column From First Line</td>
<td>Specifies the read behavior for the header row. You can set the parameter to:</td>
</tr>
<tr>
<td></td>
<td>- Enabled: the first row is treated as the header row and the first row is skipped at run time.</td>
</tr>
<tr>
<td></td>
<td>- Disabled: reads the entire file including the header row. Use this option for files that do not have header rows.</td>
</tr>
<tr>
<td>Note</td>
<td>During the metadata import, you must have a header row in the source file.</td>
</tr>
</tbody>
</table>

Microsoft Azure Data Lake Store V2 Targets in Mappings

In a mapping, you can use an Microsoft Azure Data Lake Store V2 object as a target.

When you use Microsoft Azure Data Lake Store V2 target objects, you can select a Microsoft Azure Data Lake Store collection as target. You can configure Microsoft Azure Data Lake store V2 target properties on the
Target page of the Mapping wizard. When you write data to Microsoft Azure Data Lake Store, you can use the create target field to create a target at run time. When you create a new target based on the source, you must remove all the binary fields from the field mapping.

The following table describes the Microsoft Azure Data Lake Store V2 target properties that you can configure in a Target transformation:

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection</td>
<td>Name of the target connection.</td>
</tr>
<tr>
<td>Target Type</td>
<td>Select <strong>Single Object</strong>.</td>
</tr>
<tr>
<td>Object</td>
<td>Name of the target object.</td>
</tr>
</tbody>
</table>
| Formatting Options  | Opens the **Formatting Options** dialog box to define the format of the file. Configure the following format options:  
  - Delimiter: Delimiter character. You can configure other parameters such as comma, tab, colon, semicolon, or others.  
  - Text Qualifier: Character to qualify text. You can configure other parameters such as single quote or double quote.  
  - Escape: Escape character.  
  **Note:** The formatting options are ignored if you select Create Table. |
| Create Target       | Creates a target. Enter a name and path for the target object and select the source fields that you want to use. By default, all source fields are used.  
  For Date data type, use the edit types in the field mapping tab to change the precision to 29 and scale to 0. The task might fail if you do not change the precision and scale value for date data types. |
| Operation           | The target operation.                                                                             |

The following table describes the advanced target properties for Microsoft Azure Data Lake Store V2:

<table>
<thead>
<tr>
<th>Advanced Target Property</th>
<th>Description</th>
</tr>
</thead>
</table>
| Directory Path           | The Microsoft Azure Data Lake Store directory that you use to write data. Default is root directory.  
  The Secure Agent creates the directory if it does not exist. The directory path specified at run time overrides the path specified while creating a connection. |
| File Name                | Target object. Select the file from which you want to write data.  
  The file specified at run time overrides the file specified in Object. |
| If file exists           | If the files exists in Microsoft Azure Data Lake Store, you can select to overwrite or append the existing file. You can also select the current task to fail. |
| Generate Header          | Specifies the write behavior for the header row. You can set the parameter to:  
  - Enabled: writes the header row.  
  - Disabled: does not write the header row.  
  **Note:** During the metadata import, you must have a header row in the target file.
### Advanced Target Property Description

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success File Directory</td>
<td>NA</td>
</tr>
<tr>
<td>Error File Directory</td>
<td>NA</td>
</tr>
</tbody>
</table>

### Specifying a Target

You can use an existing target or create a target to hold the results of a mapping. If you choose to create the target, the agent creates the target when you run the task.

To specify the target properties, follow these steps:

1. Select the Target transformation in the mapping.
2. On the **Incoming Fields** tab, configure field rules to specify the fields to include in the target.
3. To specify the target, click the **Target** tab.
4. Select the target connection.
5. For the target type, choose **Single Object** or **Parameter**.
6. Specify the target object or parameter.
   - To create a target file at run time, enter the name for the target file including the extension, for example, `Accounts.csv`.
   - If you want the file name to include a time stamp, click **Handle Special Characters** and add special characters to the file name. For example, add the special characters shown here to include all the time stamp information: `Accounts_%d%m%y%T.csv`.
7. Click **Formatting Options** if you want to configure the formatting options for the file, and click **OK**.
8. Click **Select** and choose a target object. You can select an existing target object or create a new target object at run time and specify the object name.

   ![Target Object](image)

   Select an existing target object or create a new one. Any new target objects will be created when the mapping configuration task is executed.

   ![Target Object](image)

9. Specify Advanced properties for the target, if needed.

### Target Time Stamps

When you create a target at run time, you can append time stamp information to the file name to show when the file is created.

When you specify the file name for the target file, include special characters based on Linux STRFTIME function formats that the Mapping Configuration task uses to include time stamp information in the file name. The time stamp is based on the organization's time zone.
The following table describes some common STRFTIME function formats that you might use in a mapping or Mapping Configuration task:

<table>
<thead>
<tr>
<th>Special Character</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%d</td>
<td>Day as a two-decimal number, with a range of 01-31.</td>
</tr>
<tr>
<td>%m</td>
<td>Month as a two-decimal number, with a range of 01-12.</td>
</tr>
<tr>
<td>%y</td>
<td>Year as a two-decimal number without the century, with range of 00-99.</td>
</tr>
<tr>
<td>%Y</td>
<td>Year including the century, for example 2015.</td>
</tr>
<tr>
<td>%T</td>
<td>Time in 24-hour notation, equivalent to %H:%M:%S.</td>
</tr>
<tr>
<td>%H</td>
<td>Hour in 24-hour clock notation, with a range of 00-24.</td>
</tr>
<tr>
<td>%I</td>
<td>Hour in 12-hour clock notation, with a range of 01-12.</td>
</tr>
<tr>
<td>%M</td>
<td>Minute as a decimal, with a range of 00-59.</td>
</tr>
<tr>
<td>%S</td>
<td>Second as a decimal, with a range of 00-60.</td>
</tr>
<tr>
<td>%p</td>
<td>Either AM or PM.</td>
</tr>
</tbody>
</table>
**CHAPTER 5**

Microsoft Azure Data Lake Data Store V2 Type Reference

This chapter includes the following topic:

- Data Type Reference Overview, 20

### Data Type Reference Overview

Informatica Cloud uses the following data types in mappings, Data Synchronization tasks, and Mapping Configuration tasks with Microsoft Azure Data Lake Store V2:

**Microsoft Azure Data Lake Store V2 native data types**

Microsoft Azure Data Lake Store V2 data types appear in the source and target transformations when you choose to edit metadata for the fields.

**Transformation data types**

Set of data types that appear in the transformations. They are internal data types based on ANSI SQL-92 generic data types, which the Secure Agent uses to move data across platforms. Transformation data types appear in all transformations in mappings and Data Synchronization tasks.

When Informatica Cloud reads source data, it converts the native data types to the comparable transformation data types before transforming the data. When Informatica Cloud writes to a target, it converts the transformation data types to the comparable native data types.

The following table lists the Microsoft Azure Data Lake Store V2 data types that Informatica Cloud supports and the corresponding transformation data types:

<table>
<thead>
<tr>
<th>Microsoft Azure Data Lake Native Data Type</th>
<th>Transformation Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>String</td>
<td>1 to 104,857,600 characters</td>
</tr>
</tbody>
</table>