How-To Library



Reading a JSON File Using an Amazon S3 V2 Connector

Abstract

You can use Amazon S3 V2 Connector to read a JSON file through a binary port. To read a JSON file, you must use the Hierarchy Parser and Java transformations in the Amazon S3 V2 mapping. Adding the transformations enable the Secure Agent to convert the data of the binary format to the string format. This article explains how to create a mapping to read a JSON file using Amazon S3 V2 Connector.

Supported Versions

• Informatica® Cloud Data Integration Amazon S3 V2

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Overview

When you create an Amazon S3 V2 mapping, use the Hierarchy Parser and Java transformations to read JSON files. You cannot create a mapping to write JSON files. However, in elastic mappings, you can directly read and write JSON files.

Prerequisite Tasks

Before you use Amazon S3 V2 Connector to read a JSON file through the binary port, you must complete the following prerequisite tasks:

- 1. Verify whether you have the AgentCompiler custom license to use the Java transformation.
- 2. Verify whether you have the following custom licenses to use the Hierarchy Parser transformation:
 - DataTransformation
 - UDTforHierarchy
 - · saas-xmetadataread
- 3. Set the value of the JDK HOME environment variable to the Java installation path in the Secure Agent machine.

Creating an Amazon S3 V2 Mapping to Read a JSON File

Add the Hierarchy Parser and Java transformations in an Amazon S3 mapping to read a JSON file.

- 1. In Data Integration, click New > Mappings > Create.
 - The **New Mapping** dialog box appears.
- Enter a name, location, and description for the mapping.
- 3. On the Source transformation, specify a name and description in the general properties.
- 4. On the **Source** tab, perform the following steps to provide the source details to read data from an Amazon S3 source:
 - 1. In the Connection field, select the Amazon S3 V2 connection.

- 2. In the Source Type field, select Single object.
- 3. In the **Object** field, select the source object of the JSON file.

Note: By default, the format type of a JSON file is binary.

- 4. In the Formatting Options field, set the value to None.
- 5. Add a Java transformation.
- Click Java.

The Java Editor tab appears.

7. Click Inputs.

The **Inputs** tab appears.

8. Add the following code to import the required Java packages in the Import Packages section:

```
import java.nio.charset.StandardCharsets;
```

9. Add the following code to convert the data of binary format into string format in the On Input Row section:

10. Click Outputs.

The **Outputs** tab appears.

generateRow();

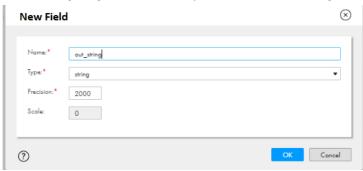
11. Click + Create a New Field.

The New Field dialog box appears.

12. In the New Field dialog box, define the variable names that you added in the On Input Row section.

For example, define the out string variable name.

The following image shows an example of the New Field dialog box:



- 13. Click **OK**.
- 14. In the Runtime Environment field, select the Secure Agent that you want to use and click Compile.

The compilation successful message is displayed.

- 15. Add a Hierarchy Parser transformation.
- 16. Map the input ports from the Java transformation to the Hierarchy Parser transformation.
- 17. Click on the Hierarchy Parser transformation.
- 18. In the **Incoming Fields** tab, perform the following steps:
 - 1. Click the + add icon and select **Delete Rule** to delete any existing rules.

- Click the + add icon to add a new rule.
- 3. Click Configure.

The **Configure Field Rules** dialog box appears.

- In the Rule Details tab, select only the output strings.
 For example, out_string.
- 5. Click OK.
- 19. In the **Input Settings** tab, select the **Input Type** as **Buffer** and select an existing or create a new hierarchical schema.
- 20. Map the input ports from the Java transformation to the Hierarchy Parser transformation.
- 21. In the Input Field Selection tab, map the incoming fields to the hierarchical schema input fields.
- 22. In the Field Mapping tab, expand the element name and click Map all descendants.
- 23. Map the Hierarchy Parser transformation to the target.

The **Select Output Group** dialog box appears.

- 24. Select the required output group and click **OK**.
- 25. Click Save > Run to run the mapping.

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