Informatica

Informatica® Cloud Data Integration

Amazon Aurora Connector

Informatica Cloud Data Integration Amazon Aurora Connector
October 2022

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Preface

Use *Amazon Aurora Connector* to learn how to read from or write to Amazon Aurora by using Cloud Data Integration. You can also learn to create an Amazon Aurora connection, develop and run synchronization tasks, mappings, and mapping tasks in Cloud Data Integration.

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CHAPTER 1

Introduction to Aurora Connector

This chapter includes the following topics:

- Amazon Aurora Connector overview, 6
- Introduction to Amazon Aurora, 6
- Amazon Aurora supported objects and task operations, 7
- Administration of Amazon Aurora Connector , 7

Amazon Aurora Connector overview

Amazon Aurora Connector enables you to securely read data from or write data to Amazon Aurora databases.

You can use Amazon Aurora objects as sources and targets in synchronization tasks, mappings, and mapping tasks.

You can switch mappings to advanced mode to include transformations and functions that enable advanced functionality.

When you use Amazon Aurora Connector to write data, you can perform insert, update, upsert or delete operations. When you configure field mappings in a synchronization task or mapping task, you can create a lookup to an Amazon Aurora object.

Note: You cannot create an unconnected lookup when you configure field mappings.

Example

You work in the IT department of an international bank and are responsible for storing huge volumes of transaction files in a relational database. You want to store the data in Amazon Aurora database to avoid data loss if the relational database fails. You can use Amazon Aurora Connector to upload huge volumes of transactional files to Amazon Aurora from any location and at any time. You can back up data in Aurora for disaster recovery purposes and retrieve the data later.

Introduction to Amazon Aurora

Amazon Aurora is a cloud-based relational database engine that is compatible with MySQL. You can use the push-button migration tools to convert existing Amazon RDS for MySQL applications to Amazon Aurora. Amazon Aurora offers fault tolerance, scalability, continuos backup, and automatic detection of database

crashes. You can use Amazon Aurora to set up and scale MySQL sever deployments. Amazon Relational Database Service (RDS) performs the administration tasks for Amazon Aurora.

Amazon Aurora supported objects and task operations

The following table lists the tasks and object types that Amazon Aurora Connector supports:

Task Type	Source	Target	Lookup
Synchronization	Yes	Yes	Yes
Mapping	Yes	Yes	Yes

Administration of Amazon Aurora Connector

If the Secure Agent that runs the Amazon Aurora tasks is on a Linux machine, ensure that the `libssl.so.10` and `libcrypto.so.10` OpenSSL libraries are available and added to the `LD_LIBRARY_PATH` environment variable.

For information on how to configure the `libssl.so.10` and `libcrypto.so.10` OpenSSL libraries, see:

https://kb.informatica.com/solution/23/Pages/69/571515.aspx?myk=libmaodbc.so

CHAPTER 2

Amazon Aurora Connections

This chapter includes the following topics:

- Amazon Aurora connections overview, 8
- Amazon Aurora connection properties, 8

Amazon Aurora connections overview

Create an Amazon Aurora connection to connect to Amazon Aurora and read data from or write data to Amazon Aurora. You can use Amazon Aurora connection in synchronization tasks, mappings, and mapping tasks.

You can create an Aurora connection on the **Connections** page and create a synchronization task, mapping, or mapping task.

Amazon Aurora connection properties

When you set up an Amazon Aurora connection, you must configure the connection properties.

The following table describes the Amazon Aurora connection properties:

Connection property	Description
Runtime Environment	Runtime environment that contains the Secure Agent used to access Amazon Aurora. **Specify a Secure Agent, Hosted Agent, or serverless runtime environment.**
Host	Amazon Aurora server host name. For example, `xyzcloud-cluster.cluster-cj8irztl1mku.us-west-2.rds.amazonaws.com`
Port	Amazon Aurora directory server port number.
Database Name	Name of the Amazon Aurora database.

Connection property	Description
Code Page	The code page of the database server defined in the connection. Select one of the following code pages: - MS Windows Latin 1 - UTF-8 - Shift-JIS - ISO 8859-15 Latin 9 (Western European). - ISO 8859-2 Eastern European. - ISO 8859-3 Southeast European. - -ISO 8859-5 Cyrillic. - ISO 8859-9 Latin 5 (Turkish). - IBM EBCDIC International Latin-1.
Metadata Advanced Connection Properties	The values to set the optional properties of JDBC driver to fetch the metadata. For example, `connectTimeout=180000` For more metadata advanced connection properties, see https://mariadb.com/kb/en/mariadb/about-mariadb-connector-j/
Run-time Advanced Connection Properties	The values to set the optional properties for ODBC run time driver. For example, `charset=sjis;readtimeout=180` For more run time advanced connection properties, see https://mariadb.com/kb/en/mariadb/about-mariadb-connector-odbc/
Username	User name of the Amazon Aurora account.
Password	Password of the Amazon Aurora account.

CHAPTER 3

Synchronization tasks with Amazon Aurora

This chapter includes the following topics:

- Amazon Aurora sources in synchronization task, 10
- Amazon Aurora targets in synchronization task, 11
- Synchronization task example, 12

Amazon Aurora sources in synchronization task

When you configure a synchronization task to use an Amazon Aurora source, you can read data from a single or multiple object.

To optimize performance, you can configure a filter on the **Data Filters** tab. You can also configure an advanced filter to define a more complex filter condition, which can include multiple conditions by using the AND or OR logical operators.

The following table describes the Amazon Aurora source properties:

Property	Description
Connection	Name of the Amazon Aurora source connection.
Source Type	Type of the Amazon Aurora source object available. You can choose from the following source types: - Single - Multiple
Source Object	Name of the Amazon Aurora source object.
Display source fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the source system.

When you configure a synchronization task, you can configure the advanced source properties. The advanced source properties appear on the **Schedule** page of the Synchronization Task wizard.

The following table describes the Amazon Aurora advanced source properties:

Property	Description
Pre SQL	Pre-SQL command to run before reading data from the source.
Post SQL	Post-SQL command to run after reading data from the source.
Output is deterministic	When you configure this property, the Secure Agent does not stage source data for recovery if transformations in the pipeline produce repeatable data.
Output is repeatable	When the output is deterministic and the output is repeatable, the Secure Agent does not stage the source data for recovery.

Amazon Aurora targets in synchronization task

When you configure a synchronization task to write to an Amazon Aurora target, you can configure the target properties. The target properties appear on the **Target** page of the Synchronization Task wizard when you specify an Amazon Aurora connection. You can only insert, update, upsert, or delete data in an Amazon Aurora target.

The following table describes the Amazon Aurora target properties:

Property	Description
Connection	Name of the active target connection.
Target Object	Name of target objects available in the connection.

When you configure a synchronization task, you can configure the advanced target properties.

The following table describes the Amazon Aurora advanced target properties:

Property	Description
Success File Directory	Directory for the success file. Specify a directory path that is available on each Secure Agent machine in the runtime environment. By default, Data Integration writes the success file to the following directory: `<Secure Agent installation directory>/apps/Data_Integration_Server/data/success`
Error File Directory	Directory for the error rows file. Specify a directory path that is available on each Secure Agent machine in the runtime environment. By default, Data Integration writes the error rows file to the following directory: `<Secure Agent installation directory>\apps\Data_Integration_Server\data\error`

Synchronization task example

You can create a synchronization task to read data from an Amazon Aurora source and write data to the Amazon Aurora target.

Perform the following task to create a synchronization task:

Note: You need to create an Amazon Aurora connection before you configure the synchronization task.

1. In Data Integration, click **New** > **Tasks**.
2. Select **Synchronization Task**, and click **Create**.

   The **Definition** tab appears.
3. Configure the following fields on the **Definition** tab:

Field	Description
Task Name	Name of the synchronization task.
Description	Description of the synchronization task. Maximum length is 255 characters.
Task Operation	Select the task operation that you want to perform.

4. Click **Next**.

   The **Source** tab appears.
5. Configure the following fields on the **Source** tab:

Field	Description
Connection	Select an Amazon Aurora connection you created.
Source Type	Select the source type. By default, **Single** is selected.
Source Object	Select the required object from the list.
Display technical names instead of labels	Displays technical names instead of business names.
Display source fields in alphabetical order	Displays source fields in alphabetical order. By default, fields appear in the order returned by the source system.

6. Click **Next**.

   The **Target** tab appears.

7. Configure the following fields on the **Target** tab:

Field	Description
Connection	Select a flat file connection.
Target Object	Select the target object.
Display target fields in alphabetical order	Displays target fields in alphabetical order. By default, fields appear in the order returned by the target system.

8. Click **Next**.

   The **Data Filters** tab appears.
9. Select the filter object, filter field, and filter operator to create a data filter on the **Data Filters** page.
10. Click **Next**.

    The **Field Mapping** tab appears.
11. Click **Automatch** on the **Field Mapping** tab to map source fields to target fields accordingly.
12. Click **Validate Mapping** to validate the mapping.
13. Click **Next**.

    The **Schedule** tab appears where you can schedule the task for each requirement and save.
14. Configure the advanced source properties on the **Schedule** tab.
15. Click **Save** > **Finish**.
16. From the **Explore** page, select the synchronization task, and click **Actions** > **Run**.

    In Monitor, you can monitor the status of the logs after you run the task.

CHAPTER 4

Mappings and mapping tasks with Amazon Aurora

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure a source or target to represent the object.

In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

Amazon Aurora sources in mapping

To read data from an Amazon Aurora database, configure an Amazon Aurora object as the Source transformation in a mapping. Configure partitioning when you configure the Source transformation in the Mapping Designer to optimize the performance of the mapping task.

Specify the name and description of the Amazon Aurora source. Configure the source, query options, and advanced properties for the source object.

The following table describes the source properties that you can configure for an Amazon Aurora source:

Property	Description
Connection	Name of the Amazon Aurora source connection.
Source Type	Type of the Amazon Aurora source object available. You can choose from the following source types: - Single - Multiple - Query - Parameter
Object	Name of the Amazon Aurora source object.
Filter	A simple filter includes a field name, operator, and value. Use an advanced filter to define a more complex filter condition, which can include multiple conditions using the AND or OR logical operators.
Select distinct rows only	Select this option to extract only distinct rows.

When you configure a mapping, you can configure the advanced target properties. The following table describes the Amazon Aurora advanced target properties:

Property	Description
Tracing level	Amount of detail that appears in the log for this transformation. You can choose terse, normal, verbose initialization, or verbose data. Default is normal.
Pre SQL	Pre-SQL command to run before reading data from the source.
Post SQL	Post-SQL command to run after writing data to the target.
Output is Deterministic	When you configure this property, the Secure Agent does not stage source data for recovery if transformations in the pipeline always produce repeatable data.
Output is repeatable	When the output is deterministic and the output is repeatable, the Secure Agent does not stage the source data for recovery.

Key range partitioning

You can configure key range partitioning when you use a mapping task to read data from Amazon Aurora sources. With key range partitioning, the Secure Agent distributes rows of source data based on the field that you define as partition keys. The Secure Agent compares the field value to the range values for each partition and sends rows to the appropriate partitions.

Use key range partitioning for columns that have an even distribution of data values. Otherwise, the partitions might have unequal size. For example, a column might have 10 rows between key values 1 and 1000 and the column might have 999 rows between key values 1001 and 2000. If the mapping includes multiple sources, use the same number of key ranges for each source.

When you define key range partitioning for a column, the Secure Agent reads the rows that are within the specified partition range. For example, if you configure two partitions for a column with the ranges as 10 through 20 and 30 through 40, the Secure Agent does not read the rows 20 through 30 because these rows are not within the specified partition range.

You can configure a partition key for fields of the following data types:

- String
- Number data type. However, you cannot use decimals in key range values.
- Date/time. Use the following format: MM/DD/YYYY HH24:MI:SS

You cannot use key range partitions when a mapping includes any of the following transformations:

- Web Services
- XML to Relational

Configuring key range partitioning

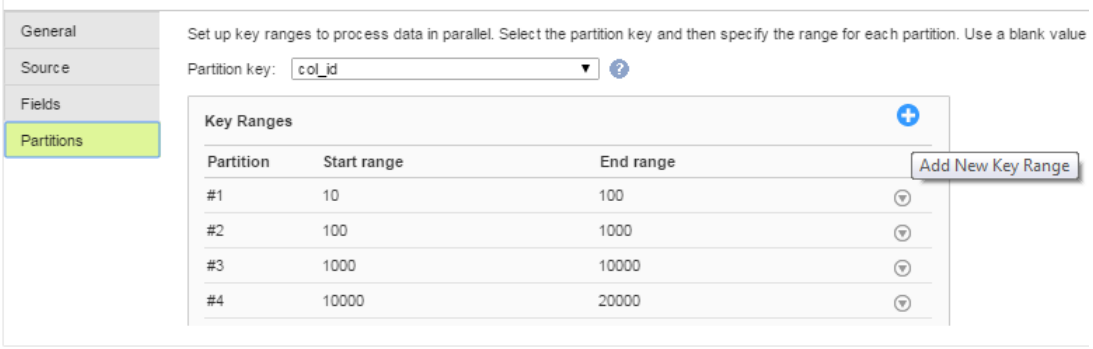
Perform the following steps to configure key range partitioning for Amazon Aurora sources:

1. In the **Source Properties** page, click the **Partitions** tab.
2. Select the required partition key from the list.

3. Click **Add New Key Range** to define the number of partitions and the key ranges based on which the Secure Agent must partition data.

   Use a blank value for the start range to indicate the minimum value. Use a blank value for the end range to indicate the maximum value.

   The following image displays the details of **Partitions** tab:



Amazon Aurora targets in mapping

To write data to an Amazon Aurora database, configure an Amazon Aurora object as the Target transformation in a mapping.

Specify the name and description of the Amazon Aurora target. Configure the target and advanced properties for the target object.

The following table describes the target properties that you can configure for an Amazon Aurora target:

Property	Description
Connection	Name of the active Amazon Aurora target connection.
Target Type	Type of the Amazon Aurora target object available. You can choose from the following source types: - Single - Parameter
Object	Name of the Amazon Aurora target object based on target type selected.
Operation	Select the target operation. You can perform the following operations on an Amazon Aurora target: - Insert - Update - Upsert - Delete

If you select the **Forward Rejected Rows** option, the Secure Agent flags the rows for reject and writes them to the reject file. If you do not select the **Forward Rejected Rows** option, the Secure Agent drops rejected rows and writes them to the session log file. The Secure Agent does not write the rejected rows to the reject file.

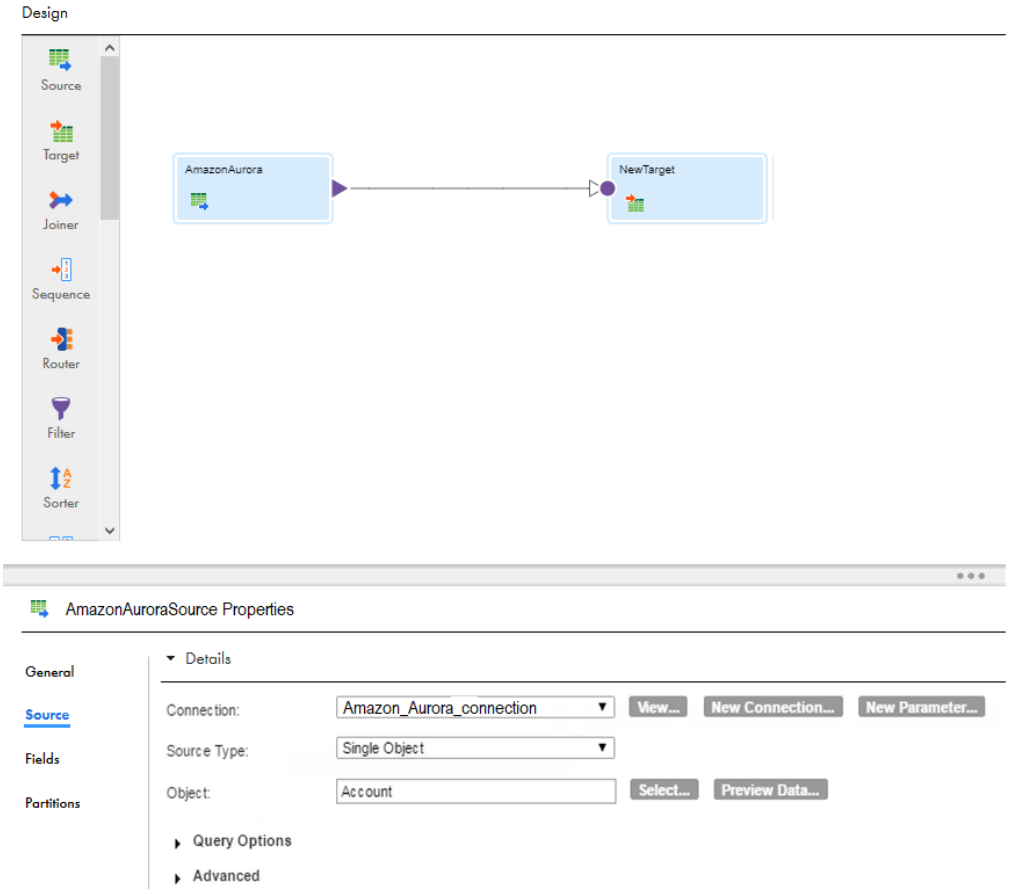
Amazon Aurora mapping task example

You can create a mapping task to read data from an Amazon Aurora source and write data to the Amazon Aurora target.

Perform the following task to create a mapping task:

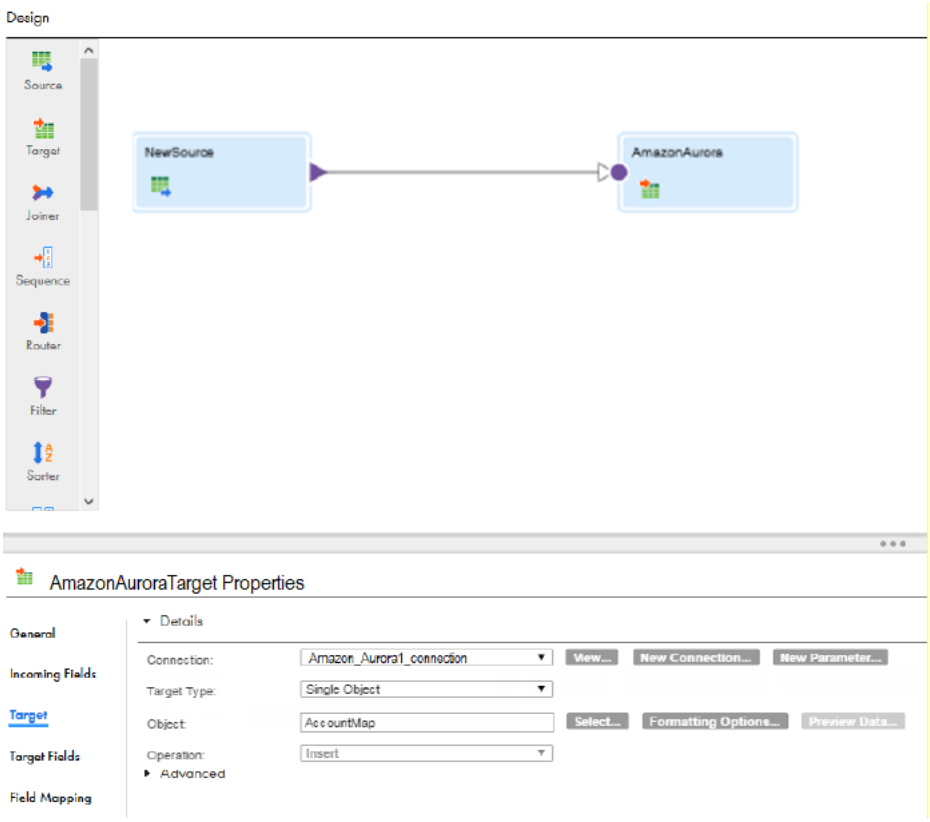
1. In Data Integration, click **New** > **Mapping** > **Create** .
2. To configure the source properties and the advanced source properties, select **Source** from the selection panel under the **Design** section.

   The following image shows details of the **Source Properties** page:



3. To configure the target properties and the advanced target properties, select **Target** from the selection panel under the **Design** section.

The following image shows details of the **Target Properties** page:



4. Map the source and target.



5. Click **Save** and then click **Run.**

   In Monitor, you can monitor the status of the logs after you run the task.

CHAPTER 5

Data type reference

This chapter includes the following topics:

- Data type reference overview, 19
- Amazon Aurora and transformation data types, 19

Data type reference overview

Data Integration uses the following data types in synchronization tasks, mappings, and mapping tasks with Amazon Aurora:

Amazon Aurora native data types

Amazon Aurora 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 a mapping.

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

Amazon Aurora and transformation data types

The following table lists the Amazon Aurora data types that Data Integration supports and the corresponding transformation data types:

Amazon Aurora Data Type	Transformation Data Type	Description
BIGINT	Bigint	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 Precision 19, scale 0
BINARY	Binary	1 to 104,857,600 bytes

Amazon Aurora Data Type	Transformation Data Type	Description
BIT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
BLOB	Binary	1 to 104,857,600 bytes
BOOLEAN	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
CHAR	String	1 to 104,857,600 characters
DATE	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
DATETIME	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
DECIMAL	Decimal	Precision 1 to 28, scale 0 to 28
DOUBLE	Double	Precision 15
ENUM	String	1 to 104,857,600 characters
FLOAT	Double	Precision 15
INT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
LONGBLOB	Binary	1 to 104,857,600 bytes
LONGTEXT	String	1 to 104,857,600 characters
MEDIUMBLOB	Binary	1 to 104,857,600 bytes
MEDIUMTEXT	String	1 to 104,857,600 characters
SET	String	1 to 104,857,600 characters
SMALLINT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
TEXT	String	1 to 104,857,600 characters
TIME	Date/time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to the nanosecond)
TINYBLOB	binary	1 to 104,857,600 bytes
TINYINT	Integer	-2,147,483,648 to 2,147,483,647 Precision 10, scale 0
TINYTEXT	String	1 to 104,857,600 characters
VARBINARY	Binary	1 to 104,857,600 bytes
VARCHAR	String	1 to 104,857,600 characters
YEAR	String	1 to 104,857,600 characters

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