Informatica®

Informatica® Cloud Data Integration

MongoDB V2 Connector

Informatica Cloud Data Integration MongoDB V2 Connector
April 2024

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Preface

Use MongoDB V2 Connector to learn how to read from or write to MongoDB by using Data Integration. Learn to create a MongoDB V2 connection, run mappings in advanced mode and tasks in Data Integration.

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CHAPTER 1

Introduction to MongoDB V2 Connector

You can use MongoDB V2 Connector to read data from or write data to collections in any on-premise or cloud deployment such as MongoDB Atlas database.

You can use a MongoDB V2 connection as a source and as a target only in mappings in advanced mode. When you run a mapping in advanced mode or a task based on a mapping in advanced mode, the Secure Agent uses the JDBC driver to connect to MongoDB.

You can only use MongoDB V2 Connector for MongoDB installed on Linux operating systems. You can integrate and migrate data from diverse data sources to MongoDB. You can read complex data types with hierarchical input and write as relational output. You can also read complex data types with relational input and write as hierarchical output.

You can also use a MongoDB V2 connection to read data from or write data to Azure CosmosDB MongoDB API, Amazon DocumentDB, and other non-SSL MongoDB deployments.

The schema of the MongoDB V2 source is inferred by sampling rows from the MongoDB collection. MongoDB V2 Connector picks the most common data types from the sample for mixed records, sub-records, and arrays.

MongoDB V2 Connector assets

Create assets in Data Integration to integrate data using MongoDB V2 Connector.

When you use MongoDB V2 Connector, you can include the following Data Integration assets:

- Mappings
- Mapping task

Important: You can use MongoDB V2 Connector only in mappings in advanced mode. You can run a task based on a mapping in advanced mode.

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

Administration of MongoDB V2 Connector

Before you configure a MongoDB V2 connection, you must complete the following prerequisites:

- Create a MongoDB user.
- Copy the primary node host name and create a user with admin privileges.

Configure proxy settings

If your organization uses an outgoing proxy server to connect to the Internet, you can use the serverless runtime environment to connect to Informatica Intelligent Cloud Services through the proxy server.

You can use the unauthenticated or authenticated proxy server.

To configure the proxy settings for the serverless runtime environment, see *Runtime Environments* in the Administrator help.

Configure SSL for the serverless runtime environment

You can use the serverless runtime environment with MongoDB V2 Connector to connect to an SSL-enabled MongoDB database.

Before you configure a secure MongoDB V2 connection using the serverless runtime environment, you need to perform certain prerequisites:

1. Ensure that the truststore and keystore certificate files are in .jks format.
2. Add the truststore and keystore certificates in the Amazon S3 bucket or Azure container in the following location in your AWS or Azure account: `<Supplementary file location>/serverless_agent_config/SSL`
3. Copy the following code snippet to a text editor:

```
version: 1
agent:
 agentAutoApply:
    general:
      sslStore:
        - fileCopy:
            sourcePath: SSL/<cert_filename>
        - fileCopy:
            sourcePath: SSL/<cert_filename>
```

   where the source path is the directory path of the certificate files in AWS or Azure.

   Note: You can add multiple source paths of the certificate files by adding multiple *fileCopy* tags.
4. Ensure that the syntax and indentations are valid, and then save the file as `serverlessUserAgentConfig.yml` in the following AWS or Azure location: `<Supplementary file location>/serverless_agent_config`
   When the .yml file runs, the SSL certificates are copied from the AWS or Azure location to the serverless agent directory.
5. Deploy the serverless agent.
6. Specify the following certificate path in the serverless agent directory for the truststore and keystore file path fields: `/home/cldagnt/SystemAgent/serverless/configurations/ssl_store/<cert_filename>`

CHAPTER 2

Connections for MongoDB V2

Use a MongoDB V2 connection to access a MongoDB table.

Use a MongoDB V2 connection to read data from or write data to collections in MongoDB. Use a MongoDB V2 connection to import MongoDB documents, preview data, and run mappings in advanced mode. When you create a MongoDB V2 connection, you define the connection attributes that Data Integration uses to connect to MongoDB.

MongoDB V2 connection properties

When you create a MongoDB V2 connection, you must configure the connection properties.

The following table describes the MongoDB V2 connection properties:

Property	Description
Connection Name	The name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	The MongoDB v2 connection type.
Runtime Environment	Name of the runtime environment where you want to run the tasks. You can specify a Secure Agent or serverless runtime environment.
Host	Node name or IP address of the primary shard in the MongoDB cluster.
Service Record Lookup Enabled	The connection format to indicate that the hostname corresponds to a DNS Service Record Lookup. It enables the connector to query the DNS to construct the available server list that runs MongoDB instances. Select this checkbox if the host name corresponds to a DNS SRV record. Port is not considered if this checkbox is selected.
Port	MongoDB server port number. Default is 27017.

Property	Description
Authentication	Authentication method to access the MongoDB resources. Choose one of the following authentication methods: - Username and Password. Uses user name and password credentials to connect to the MongoDB server. - X.509. Uses X.509 certificate to connect to the MongoDB server.
User Name	User name to access the MongoDB server.
Password	Password corresponding to the user name to access the MongoDB server.
SSL KeyStore File Path	The absolute path of the keystore file in the Secure Agent machine that contains the keys and certificates required to establish a secure communication. Ensure that you download the certificates and place them in the Secure Agent machine before you specify this parameter. For the serverless runtime environment, specify the following certificate path in the serverless agent directory: `/home/cldagnt/SystemAgent/serverless/configurations/ssl_store/<keystore_filename>` For more information, see the "Configure SSL for the serverless runtime environment" on page 8 chapter. Applicable if you select X.509 authentication type.
SSL KeyStore Password	The password for the keystore file required for secure communication. Applicable if you select X.509 authentication type.
Database Name	Name of the MongoDB database to connect to.
Additional Properties	Optional properties that you can configure to read data from or write data to Amazon DocumentDB and other non-SSL MongoDB deployments. For information about the additional properties that you can configure, see the "Additional connection properties" on page 10 chapter. To specify more than one property, separate the key-value pairs with an ampersand. You can specify the properties in the following format: *propertyName1=<value1>&propertyName2=<value2>*

Additional connection properties

You can configure additional options in a MongoDB V2 connection.

Amazon DocumentDB optional properties

Configure additional connection properties in the Additional Properties field to connect to Amazon DocumentDB:

ssltruststorefilepath

The absolute path of the truststore file in the Secure Agent machine that contains the keys and certificates required to establish a secure communication.

For example, ssltruststorefilepath= <path_of_truststore_file>

For the serverless runtime environment, specify the following certificate path to the serverless agent directory:

```
/home/cldagnt/SystemAgent/serverless/configurations/ssl_store/<truststore_filename>
```

For more information, see "Configure SSL for the serverless runtime environment" on page 8 chapter.

ssltruststorepassword

The password for the truststore file required for secure communication.

For example, ssltruststorepassword=<password>.

Sampling properties

Configure sampling properties in the Additional Properties field:

samplesize

The number of documents to scan to infer the schema from the MongoDB source.

For example, samplesize=100.

Default is 100.

samplemethod

The method to sample documents to infer the schema from the MongoDB source.

You can specify one of the following methods:

- firstpage. Scans first n documents from MongoDB where n indicates the sample size. MongoDB determines the ordering of rows for scanning.
- random. Scans n number of random documents from MongoDB.
- all. Scans the entire collection to infer schema.

Other properties

Configure additional connection properties in the Additional Properties field to connect to non-SSL MongoDB deployments:

ssl

Determines if the connection uses SSL or non-SSL.

Set this parameter to false in the connection properties to connect to MongoDB deployments that do not use SSL.

Default is true.

authsource

Allows you to provide the database name against which you can authenticate user credentials.

For example, authsource=testadmin.

Default is admin.

CHAPTER 3

Mappings for MongoDB V2

You can configure a mapping in advanced mode to read from and write to MongoDB tables.

Use the Data Integration Mapping Designer to define and configure a mapping in advanced mode for MongoDB V2 sources and targets.In advanced mode, the Mapping Designer updates the mapping canvas to include transformations and functions that enable advanced functionality.

When you run a mapping in advanced mode, Data Integration analyzes the data logic defined in the mapping to automatically assign data logic to run on an advanced cluster. You can use Monitor to monitor the job.

You can configure a Source or Target transformation to represent a MongoDB V2 object. Add the Source and Target transformations in the mapping canvas and configure the MongoDB V2 source and target properties. You cannot configure a filter in the Source transformation. However, you can configure a Filter transformation to filter records from the source. To push the filter to the MongoDB V2 source, configure the Filter transformation right after the Source transformation.

MongoDB V2 sources in mappings

To read data from MongoDB, configure a MongoDB V2 object as the Source transformation in a mapping in advanced mode.

Specify the name and description of the MongoDB V2 source. When you configure a Source transformation, you can add or remove source fields of primitive data types.

The following table describes the source properties that you can configure for a MongoDB V2 source:

Property	Description
Connection	Name of the MongoDB V2 source connection. You can select an existing connection or create a new connection. You can also click New Parameter to define a parameter for the source connection.
Source Type	Type of the source object. Select Single Object, Multiple Objects, or Parameter. Related objects appear based on simple primary key-foreign key relationship. You can use the Advanced Relationship option to define the relationship for objects that you want to join.
Object	Name of the MongoDB V2 source object based on the source type selected. Select the source object for a single source. When you select the multiple source option, you can add source objects and configure a relationship between them.

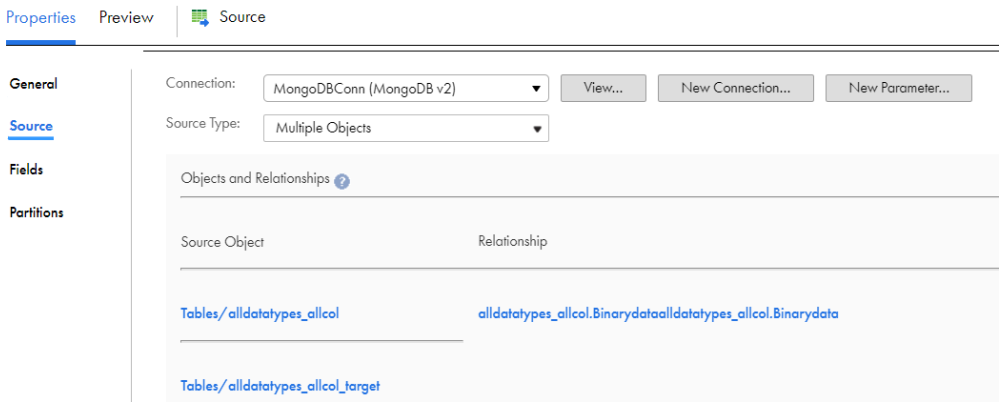
Joining multiple objects

When you create a Source transformation, you can select multiple MongoDB V2 objects as the source type and then configure an advanced relationship to combine the tables.

Perform the following steps to join multiple objects in a Source transformation:

1. In the Source transformation properties, select the **Source Type** as **Multiple Objects**.
2. From the **Actions** menu, select **Add Source Object**, and then select the source object that you want to add from the displayed list.
3. From the **Related Objects Actions** menu, select the Advanced Relationship option to define the relationship between the tables.

   The following image shows an advanced relationship condition defined between MongoDB tables:

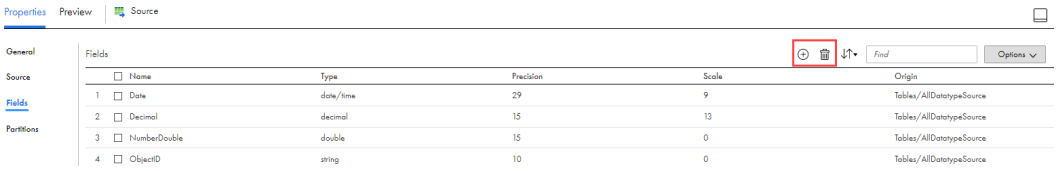


Note: You can join only two source tables. You must define only the join condition, not the complete join query.

Adding and removing source fields

You can configure the source fields that you want to use in the data flow.

You can add fields to a mapping source and retrieve a field from the source object that is not displayed in the list. To add a field, click ⊕, and then enter the field name, type, precision, and scale. You can also remove fields that you do not want to use in the mapping. To remove a field, select the field and then click 🗑.



MongoDB V2 targets in mappings

To write data to a MongoDB V2 target, configure a MongoDB V2 object as a Target transformation in a mapping in advanced mode.

Specify the name and description of a MongoDB V2 target.

The following table describes the target properties that you can configure for a MongoDB V2 target:

Property	Description
Connection	Name of the MongoDB V2 connection that is associated with a dataset. You can select an existing connection or create a new connection. You can also click New Parameter to define a parameter for the target connection.
Target Type	Type of target object. Select Single Object or Parameter. You can add multiple MongoDB V2 targets in a mapping in advanced mode.
Object	Name of the MongoDB V2 target object based on the target type selected. You can select an existing MongoDB V2 target table to write data. When you select an existing target object, the schema is inferred from the incoming fields to the target transformation.
Create New at Runtime	Creates a MongoDB V2 target table at runtime based on the target table you specify. To create a target table at runtime, enter the name of the target table that you want to create in the **Object Name** field. The agent creates the target table based on the object name and the path you specify. You can edit the metadata of the source fields before creating the target. When you create a new target at run time and the target already exists, the mapping appends the data to the existing target.
Operation	The target operation. Select Insert, Update, or Delete.
Update columns	The fields to use as temporary primary key columns when you update or delete data in the MongoDB V2 target tables. When you select more than one update columns, the mapping uses the AND operator with the update columns to identify matching rows. Applies to update and delete operations.

Rules and guidelines for MongoDB V2 target transformations

Consider the following guidelines for MongoDB V2 target transformations:

- When you perform an insert operation, the Secure Agent inserts and updates the entries in the target table based on the source key value and target key value match. The matching criteria for insert operation is *_id*.
- When you perform an update operation, you can select update columns only with primitive data types.
- When you perform an update or delete operation, the *_id* column in the target table is considered as a key column along with the other update columns selected.
- When you create a new target at run time and the target already exists, the mapping updates the data to the existing target when you perform an update operation and deletes the data from the existing target when you perform a delete operation.

Configure additional properties

You can use a MongoDB V2 connection to read from or write to Azure CosmosDB MongoDB API.

You can configure the following optional parameters in the advanced source or target properties to connect to Azure CosmosDB MongoDB API:

throughput or maxthroughput

Request units per second for a read or write operation. Expressed in RUs (Request Units). Throughput is a positive integer and a multiple of 100. You can modify the throughput for a read or write operation and depending on the operation, you can configure throughput or maxthroughput property under the advanced source or target properties. If you do not specify a value, the mapping utilizes the configured throughput for the collection.

For example, throughput=1000.

You can specify maxthroughput in place of throughput for a MongoDB collection. This property allows you to autoscale the throughput from 10% of maxthroughput to the RUs specified in maxthroughput. For example, if maxthroughput=2000 RUs, the throughput automatically scales from 200 to 2000 RUs based on usage.

You must either specify throughput or maxthroughput based on the throughput mode configured for the Azure Cosmos collection as Azure CosmosDB MongoDB API allows switching between these modes only from the Azure portal.

shardkey

A field or column that MongoDB uses to distribute documents among members of a shard cluster. Use the column as a shard key while creating a new collection. Configure shardkey property under the advanced target properties.

For example, shardkey=logid.

MongoDB V2 lookups in mappings

Add a Lookup transformation to retrieve data based on a specified lookup condition. When you add a Lookup transformation to a mapping, you define the lookup connection, lookup objects, and lookup properties related to MongoDB.

You can look up MongoDB data values based on a condition that you configure. In the Lookup transformation, select the lookup connection and object. Then, define the lookup condition and the outcome for multiple matches.

The mapping queries the lookup source based on the lookup fields and the defined lookup condition. The lookup operation returns the result to the Lookup transformation, which then passes the results downstream.

You can configure connected and unconnected lookups for mappings in advanced mode.

For more information about Lookup transformation, see *Transformations* in the Data Integration documentation.

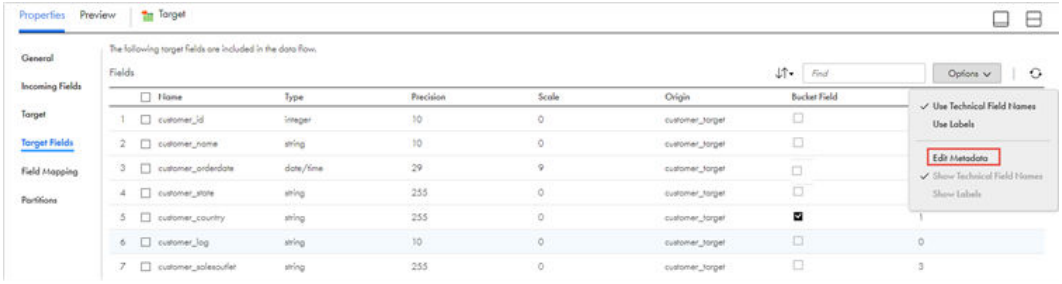
MongoDB V2 lookup properties

The following table describes the MongoDB V2 lookup object properties that you can configure in a Lookup transformation:

Property	Description
Connection	Name of the lookup connection. You can select an existing connection, create a new connection, or define parameter values for the lookup connection property. If you want to overwrite the lookup connection properties at run time, select the **Allow parameter to be overridden at run time** option.
Source Type	Type of the source object. Select Single Object or Parameter.
Parameter	A parameter file where you define values that you want to update without having to edit the task. Select an existing parameter for the lookup object or click **New Parameter** to define a new parameter for the lookup object. The **Parameter** property appears only if you select parameter as the lookup type. If you want to overwrite the parameter at run time, select the **Allow parameter to be overridden at run time** option. When the task runs, the Secure Agent uses the parameters from the file that you specify in the advanced session properties.
Lookup Object	Name of the lookup object for the mapping.
Filter	Not applicable.
Sort	Not applicable.

Edit metadata in a MongoDB V2 source and target

You can edit field data types to customize the precision, scale and data types of fields. You can edit the field metadata in a Source or Target transformation to change simple data types, precision, and scale. To edit metadata, use the Edit Metadata option for the source and target fields on the Fields tab of the Properties panel.



Reading and writing hierarchical data in mappings

You can use the Hierarchy Processor transformation in a mapping in advanced mode to process data from complex data sources such as, structs and arrays. You can read complex data types with hierarchical input and write as relational output. You can also read complex data types with relational input and write as hierarchical output.

When you configure a mapping in advanced mode to convert relational to hierarchical output, you can join data sources, group by and order by data fields, filter for specific information, and aggregate both the input and output data. When you configure a mapping in advanced mode to convert hierarchical to relational output, you can read from a single hierarchical data source and write to multiple relational data targets.

For more information about configuring a Hierarchy Processor transformation, see the Hierarchy Processor transformation section in *Transformations* in the Data Integration help.

Rules and guidelines for MongoDB V2 mappings in advanced mode

Consider the following guidelines before you run a mapping in advanced mode:

- You cannot read or write MongoDB column or table names that have more than 65 characters.
- The source tables must not be empty. Otherwise, the mapping fails.
- If the source contains binary data, the Data preview section shows jumbled text.
- When you run a mapping in advanced mode, the Secure Agent does not preserve the same order of columns in the MongoDB V2 target as in the source.
- You cannot fetch the details of the rejected rows when you write data to a MongoDB V2 target.
- You cannot use complex data type columns as lookup conditions.
- Avoid mapping the *_id* column to see an improvement in the write operation.

CHAPTER 4

Upgrading to MongoDB V2 Connector

If you are currently using the MongoDB connection to access and perform operations in MongoDB, you can upgrade to MongoDB V2 Connector.

As the object type is compatible, you can switch the source or target connection type in existing mappings that use the MongoDB connection with the MongoDB V2 connection. You can switch the MongoDB connection that is used in mappings to run in MongoDB V2 mappings in advanced mode.

After you replace the connection in the mapping, the object selected previously is not retained. You must reimport the MongoDB object. Virtual tables created in MongoDB connection are not retained when you switch the connection to MongoDB V2.

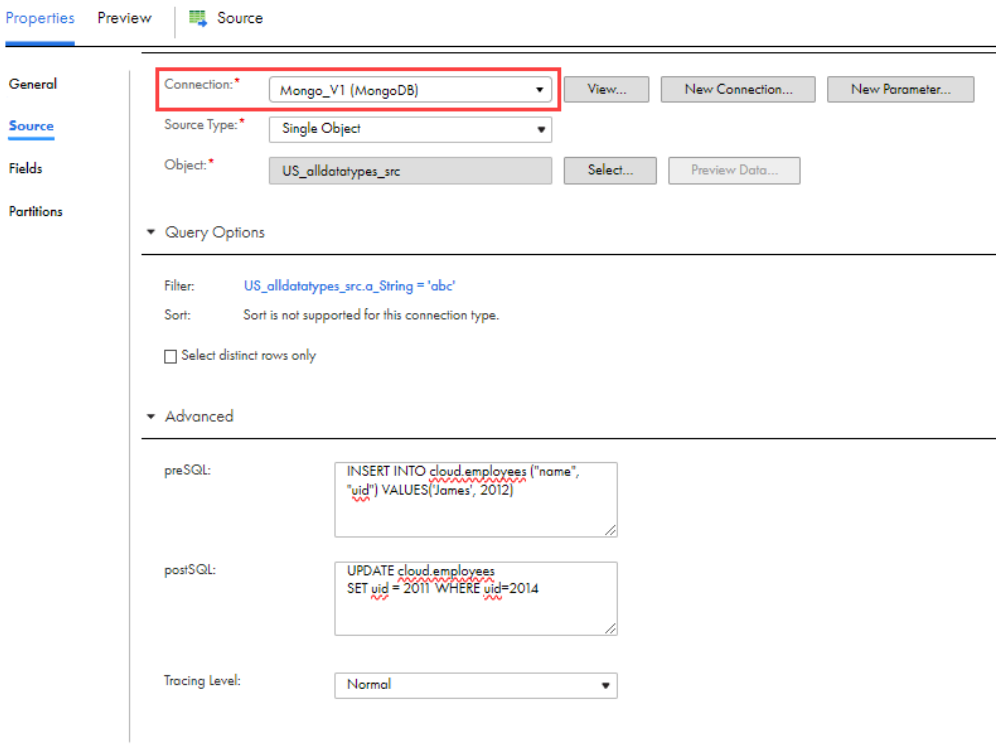
You can configure features that the enhanced MongoDB V2 Connector offers.

Connection switching example

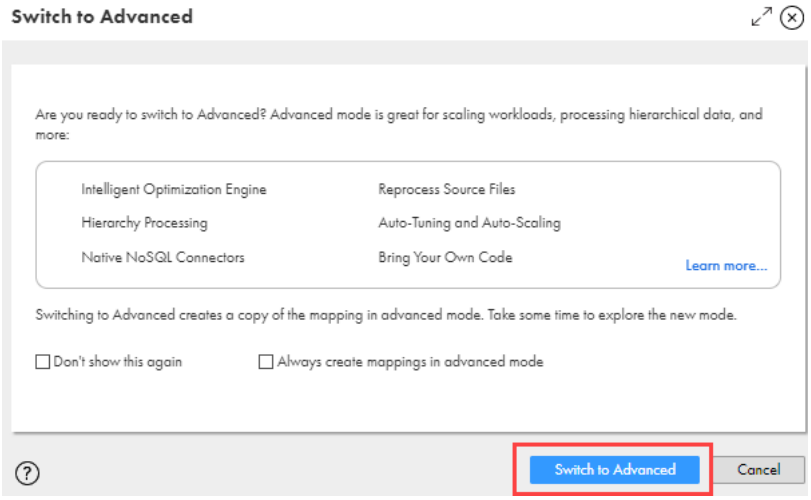
You want to upgrade your existing MongoDB mapping that uses the MongoDB connection to the MongoDB V2 connection.

1. Open the existing MongoDB mapping that you want to upgrade to MongoDB V2.

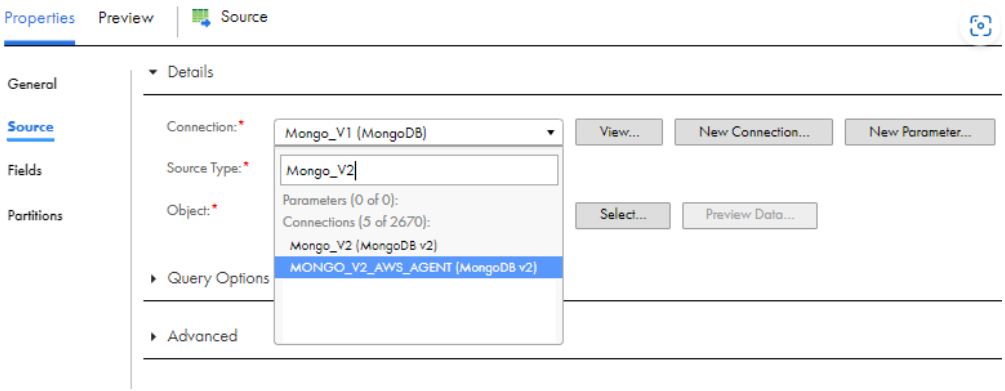
   The following image shows an existing mapping that uses the MongoDB connection and contains the configured advanced properties in the Source transformation:



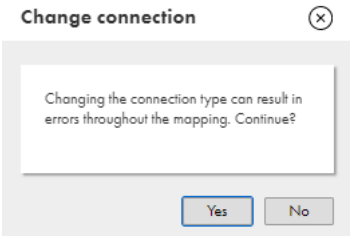
2. In the Mapping Designer, click **Switch to Advanced**.
3. In the **Switch to Advanced** dialog box, click **Switch to Advanced**.



4. To switch the connection, in the **Connection** field, change the connection from MongoDB to MongoDB V2.

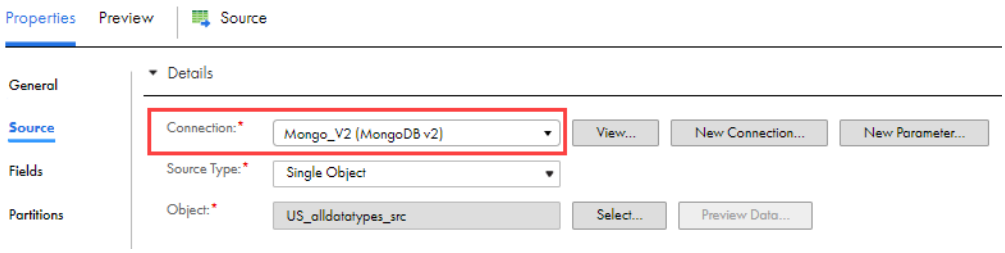


5. In the **Change Connection** dialog box, click **Yes** to switch the connection.



6. In the switched connection, reselect the object path.

   The following image shows the switched connection:



7. Save the mapping.

CHAPTER 5

Data type reference

Data Integration uses the following data types in mappings with MongoDB V2:

MongoDB V2 native data types

MongoDB V2 data types appear in the **Fields** tab for 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.

MongoDB V2 and transformation data types

The following table describes the MongoDB V2 data types that Data Integration supports and the corresponding transformation data types:

MongoDB V2 Data Types	Transformation Data Types	Range and Description
Array	Array	-
Binary	Binary	-
Boolean	Integer	1=true, 0=false
Date	Date/Time	Jan 1, 0001 A.D. to Dec 31, 9999 A.D. (precision to second)
Decimal128	Decimal	-
Double	Double	1.7E +/- 308 (15 digits)
Int32	Integer	-2,147,483,648 to 2,147,483,647
Int64	Bigint	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807

MongoDB V2 Data Types	Transformation Data Types	Range and Description
Null	Empty String	~~~~
Object	Struct	-
ObjectID	Struct	-
String	String	1 to 104,857,600 characters

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