



# TIBCO Flogo<sup>®</sup> Connector for Redis

## User's Guide

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## Overview

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Remote Dictionary Server (Redis) is an open source data structure based server that uses key-value storage. Redis stores and retrieves the keys mapped to five basic value types (Strings, Lists, Sets, Sorted Sets, and Hashes) in the data-structure. Unlike the traditional and relational database based mechanisms, Redis provides fast caching of live data used for aggregation and computation. With TIBCO Flogo<sup>®</sup> Connector for Redis, you can use basic commands such as Create, Read, Update, and Delete data from the data structure stored on your Redis server.

# Creating a TIBCO Flogo® Connector for Redis Connection

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To use the activities of Flogo® Connector for Redis, you must create a Redis connection. The Redis connection contains the parameters required to connect to the Redis server using Redis Shared Connection. The Redis connection is used by all the activities in the Redis category.

## Before you begin

Before you create a connection, familiarize yourself with Redis. For more details about how to use the Redis product, see the *Redis product documentation*.

## Procedure

1. Click the **Connections** tab and perform one of the following actions:
  - To add a connection for the first time, click the **Redis Connector** tile.
  - If you have existing connections and want to add a new connection, click the **Add Connection** link and then click the **Redis Connector** tile.
2. Enter the connection details in the **Redis Connector** dialog box. For field descriptions, see the [Redis Connection Details](#) topic.
3. Click **Save**.

## Redis Connection Details

The **Redis Connector** dialog box contains the following fields:

Field	Description
<b>Connection Name</b>	Name of the connection created.

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Field	Description
<b>Description</b>	Purpose of the Redis Shared connection.
<b>Host Name</b>	Host URL at which your Redis server is running.
<b>Port</b>	Port number on which the Redis server is running.
<b>Default Database Index</b>	Default index at which the database is stored.
<b>Password</b>	Password for authenticating the connection with the Redis server.
<b>Secure Connection</b>	<p>Establishes a secure connection when set to <b>True</b>.</p> <ul style="list-style-type: none"><li>• <b>Client Certificate:</b> A Privacy Enhanced Mail (PEM) encoded client certificate file required for client authentication.</li><li>• <b>Client Key:</b> A PEM encoded private key file required for client authentication.</li><li>• <b>CA or Server Certificate:</b> A PEM encoded Certificate Authority (CA) or Server Certificate file required for server authentication.</li></ul> <p><b>Note:</b> You can override CA Certificate, Client Certificate, and Client Key by using an app property. For more information, see "Environment Variables" topic in TIBCO Flogo® Enterprise User's Guide.</p>

# Redis Command

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You can use this activity to create, read, update, and delete the data in different groups (data structures) like hashes, lists, sets, sorted sets, and strings.

## Settings

The **Settings** tab has the following fields:

Field	Description
<b>Connection</b>	Lists all the connections created for connecting to the Redis server.
<b>Group</b>	Lists the Redis command groups based on different data structures: Hashes, Lists, Sets, SortedSets, and Strings.
<b>Command</b>	Lists all the commands provided for a selected Redis command group.

## Groups and commands

The tables below list all the groups and their associated commands with detailed description of each command.

Group	Command	Description
Hashes	HDEL	Deletes the specified fields, which exist within the stored hash.
	HEXISTS	Determines whether a hash field exists.
	HGET	Returns the value associated with the specified hash field.
	HGETALL	Returns all the specified fields and their associated values stored in the hash.
	HKEYS	Returns all the field names in the hash stored at Key.
	HLEN	Returns the number of fields stored in hash.
	HMGET	Returns the values associated with the specified hash fields.
	HMSET	Assigns the values to the specified fields in the hash.
	HSET	Assigns the value to the specified field in the hash.
	HSTRLEN	Returns the length of the value associated with the specified hash field.
	HVALS	Returns all the values associated with hash fields.

Group	Command	Description
Lists	LINDEX	Returns an element at a specified index from the list.
	LINSERT	Appends an element before or after the specified element in a list.
	LPOP	Deletes the first element of the list and returns the deleted element.
	LPUSH	Appends the specified elements at the head of the list.
	LREM	Removes the elements from the list using <i>count</i> as argument:  If $count > 0$ : Elements equal to the count value are removed moving from head to tail order of the list.  If $count < 0$ : Elements equal to the count value are removed moving from tail to head order of the list.  If $count = 0$ : Elements equal to count value are removed.
	LSET	Sets a value to the list element at specified index.
	RPOP	Removes and returns the last element of the list.
	RPUSH	Appends multiple elements at the tail of the list.

Group	Command	Description
Sets	SADD	Adds the specified element to the set.
	SCARD	Returns the number of elements present in the set.
	SMEMBERS	Returns all the elements of the set.
	SISMEMBER	Determines whether the specified element exists in the specified set.
	SPOP	Deletes the specified elements and returns the deleted elements from the set.
	SREM	Removes the specified element from the set.
	SMOVE	Moves the specified element from source set to destination set.

Group	Command	Description
SortedSets	ZADD	Appends one or more elements to the sorted set.
	ZCARD	Specifies the number of elements in the sorted set.
	ZCOUNT	Returns the number of elements from the sorted set within the specified range.
	ZREM	Removes the specified elements from the sorted set.
	ZRANGE	Returns all the elements specified within a range.
	ZRANK	Determines and returns the rank of the specified element in the sorted set.
	ZREMRANGEBYRANK	Removes all the elements within the range of specified indexes from the sorted set.
	ZREMRANGEBYSCORE	Removes all the elements within the specified scores from the sorted set.

Group	Command	Description
Strings	APPEND	Appends the value at the end of the string.
	GET	Returns the value of the specified key.
	GETRANGE	Returns the part of the string that is specified by the start and end offsets of the string.
	GETSET	Assigns new value to the key and returns the old stored value.
	MGET	Returns the values assigned to specified keys.
	MSET	Assigns the specified keys to their respective values. This command can assign values to all the specified keys at once.
	SET	Sets the key to store the string value.
	SETRANGE	Replaces a part of the string, which is specified within start and end offsets.
	STRLEN	Returns the length of the string set. An error is displayed when the key holds value other than the string.

## Input

The **Input** tab displays the input schema of the activity in tree structure. The input displayed for this activity depends on the object that you select on the **Settings** tab. You can enter the input manually or map the input to the output from a preceding activity provided that the preceding activity has an output.

Field	Command	Description
Database Index	All commands	You can choose the Redis Database partition dynamically during a run-time by mapping database index from a previous activity or by hard-coding it.

Field	Command	Description
		<b>Note:</b> If the database index is not provided in the input schema then the value of <b>Default Database Index</b> field is retained from the <b>Redis Connector</b> dialog box and commands are executed on that partition.

## Output

The **Output** tab displays the output schema of the activity in a tree structure. The output value is "read-only". The information in the schema varies based on the fields selected on the **Settings** tab. The properties that are displayed in the schema correspond to the output of the activity and can be used as input by subsequent activities in the flow.

## Loop

If you would like this activity to iterate multiple times within the flow, enter an expression that evaluates to the iteration details. Select a type of iteration from the **Type** menu. The default type is **None**, which means the activity does not iterate. Refer to the "Using the Loop Feature in an Activity" topic in the *TIBCO Flogo® Enterprise documentation*.

# TIBCO Documentation and Support Services

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For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

## How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

## Product-Specific Documentation

The following documentation for this product is available on the [TIBCO Flogo® Connector for Redis](#) product documentation page:

- *TIBCO Flogo® Connector for Redis Release Notes*
- *TIBCO Flogo® Connector for Redis Installation*
- *TIBCO Flogo® Connector for Redis User's Guide*

## How to Contact TIBCO Support

Get an overview of [TIBCO Support](#). You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the [TIBCO Support](#) website.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to [TIBCO Support](#) website. If you do not have a user name, you can request one by clicking **Register** on the website.

## How to Join TIBCO Community

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requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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