Redis streams in production

Inspecting the dataset

Let's verify that the producer created all the data, and set the expiry times on the streams.

Using the terminal, start **redis-cli** then we'll look at the lengths, expiry times, and contents of the stream partitions that were created.

1. Checking Stream Lengths

First, check the number of messages that the producer put into each day's stream partition:

$ redis-cli

127.0.0.1:6379> XLEN temps:20250101

(integer) 86400

Here we see that the stream contains 86,400 messages (one for every second of the day). All 10 stream partitions that were created should contain the same number of messages. You can verify this by running the **XLEN** command for another partition, for example **temps:20250103**.

2. Checking Stream Expiry

Next, check how long each stream partition has left until it expires:

127.0.0.1:6379> TTL temps:20250101

(integer) 178787320

127.0.0.1:6379> TTL temps:20250102

(integer) 178873689

You should notice that **temps:20250101** has the shortest time to expiry (because it contains the oldest data), and **temps:20250110** the longest (because it contains the newest data).

The TTLs on these keys are very large as our scenario assumes we started writing data on January 1st 2025. This means that the stream that we finished writing at the end of January 1st 2025 won't expire until the beginning of January 4th 2025.

3. Looking at the Messages

Finally, let's see what the messages look like using **XRANGE**:

127.0.0.1:6379> XRANGE temps:20250105 - + COUNT 2

1) 1) "1736035200000-0"

2) 1) "temp_f"

2) "73"

2) 1) "1736035201000-0"

2) 1) "temp_f"

2) "72"

Each message's ID is the millisecond timestamp that the temperature reading is for (**1736035200000** = January 5th 2025 at 00:00 for example). The payload is a single item named **temp_f** whose value is the temperature reading in Fahrenheit.

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