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The Redis streams in production

#### Managing pending messages

Documentation at redis.io

# XPENDING command XCLAIM command XINFO command

RU202 CH010 2 Understanding XPENDING and XCLAIM V04



### XPENDING Enhancements in Redis 6.2

Redis 6.2 introduced two useful enhancements to the **XPENDING** command. Let's take a moment to look at these.

First, check your Redis server version with the INFO SERVER command:

127.0.0.1:6379> INFO SERVER

```
# Server

redis_version:7.0.8

redis_git_sha1:00000000

redis_git_dirty:0

redis_build_id:c869ebfd8f51f71c

redis_mode:standalone
...
```

Here, I'm running Redis 7.0.8 so we're good to go!

#### Idle Time Filter

From Redis 6.2 onwards, the **IDLE** modifier can be used with the **XPENDING** command. This allows us to filter entries in the Pending Entry List that have been pending for at least a specified number of milliseconds. For example, let's create a stream with a consumer group and read some entries without acknowledging them:

127.0.0.1:6379> 10 XADD mystream \* hello world

```
"1677608606044-0"
```

"1677608606046-0"

"1677608606048-0"

"1677608606049-0"

"1677608606050-0"

"1677608606052-0"

"1677608606053-0"

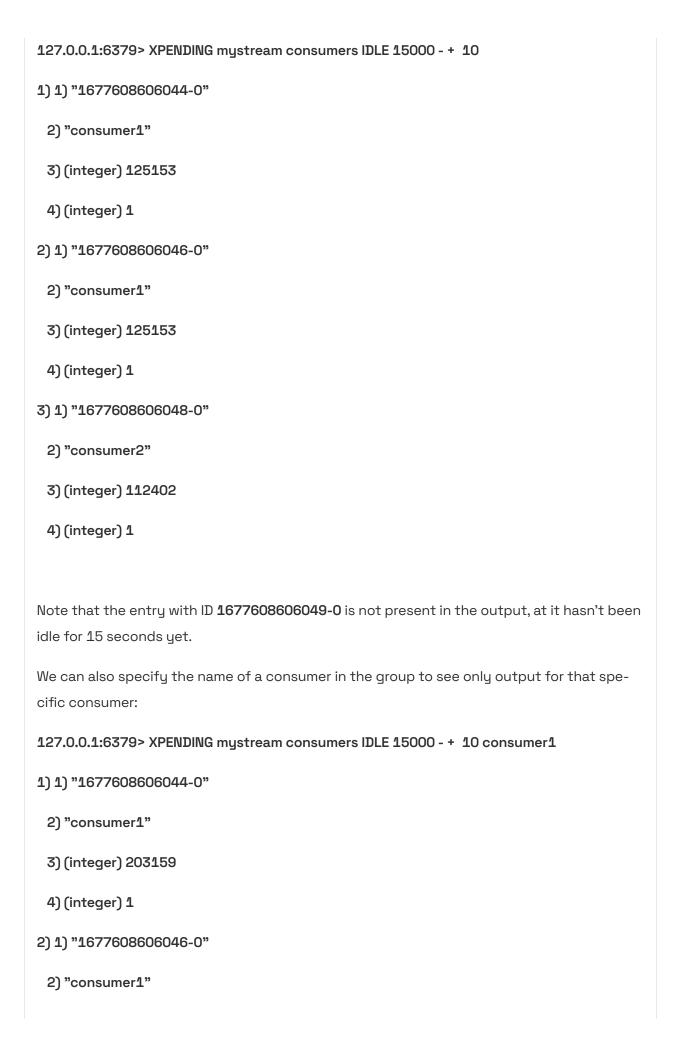
"1677608606054-0"

"1677608606056-0"

"1677608606057-0"



Once a few more seconds have passed, let's use **XPENDING** to see which entries were read more than 15 seconds ago and have not yet been acknowledged:



- 3) (integer) 203159
- 4) (integer) 1

# **Exclusive Ranges**

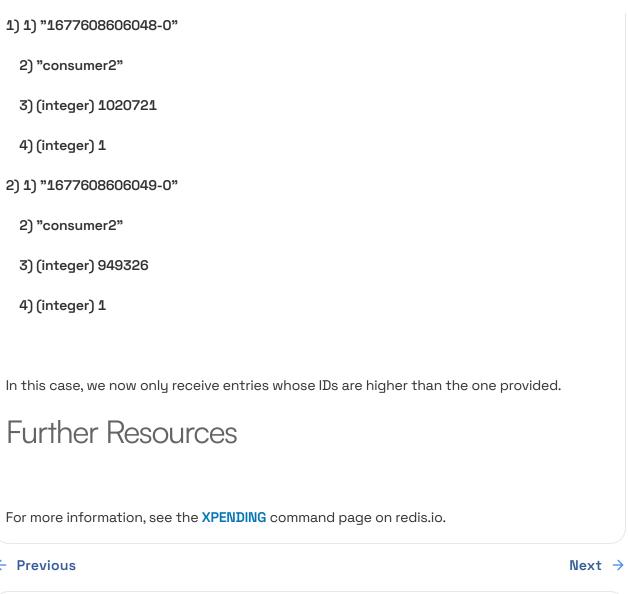
Redis 6.2 also added the ability to specify an exclusive range of IDs to **XPENDING**. For example, if we have iterated the pending entries list as far as the entry whose ID timestamp portion is **1677608606046**, then we could ask for the rest of the list like this:

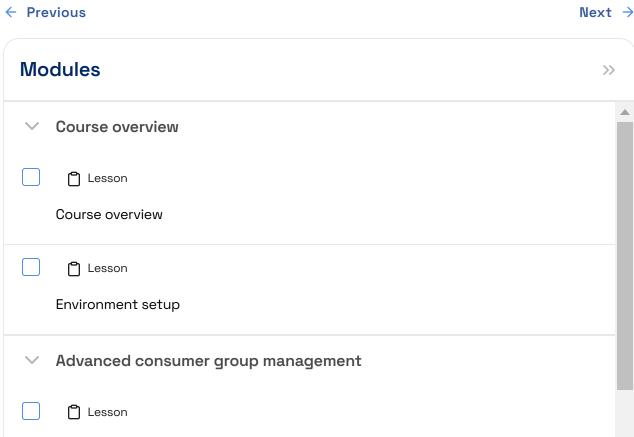
127.0.0.1:6379> XPENDING mystream consumers 1677608606046 + 10

- 1) 1) "1677608606046-0"
  - 2) "consumer1"
  - 3) (integer) 1021150
  - 4) (integer) 1
- 2) 1) "1677608606048-0"
  - 2) "consumer2"
  - 3) (integer) 1008399
  - 4) (integer) 1
- 3) 1) "1677608606049-0"
  - 2) "consumer2"
  - 3) (integer) 937004
  - 4) (integer) 1

Note that the entry ID that we provided in the **XPENDING** command is returned in the response from Redis. If we want only entries whose IDs are higher than the one provided, Redis 6.2 or higher allows us to do this by preceding the entry ID with (:

127.0.0.1:6379 > XPENDING mystream consumers (1677608606046 + 10





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