

Redis Commands Cheat Sheet

Redis Cheat Sheet

STRINGS (PART 2)

Psetex Command

```
redis 127.0.0.1:6379>  
PSETEX key1  
EXPIRY_IN_MILLISECOND  
S value1
```

Incr Command

```
redis 127.0.0.1:6379>  
INCR KEY_NAME
```

Incrby Command

```
redis 127.0.0.1:6379>  
INCRBY KEY_NAME  
INCR_AMOUNT
```

Incrbyfloat Command

```
redis 127.0.0.1:6379>  
INCRBYFLOAT KEY_NAME  
INCR_AMOUNT
```

Mget Command

```
redis 127.0.0.1:6379>  
MGET KEY1 KEY2 ..  
KEYN
```

Decr Command

```
redis 127.0.0.1:6379>  
DECR KEY_NAME
```

Decrby Command

```
redis 127.0.0.1:6379>  
DECRBY KEY_NAME  
DECREMENT_AMOUNT
```

Append Command

```
redis 127.0.0.1:6379>  
APPEND KEY_NAME  
NEW_VALUE
```

Setbit Command

```
redis 127.0.0.1:6379>  
SETBIT KEY_NAME  
OFFSET
```

Msetnx Command

```
redis 127.0.0.1:6379>  
MSETNX key1 value1  
key2 value2 .. keyN  
valueN
```

simplecheatsheet.com

Redis commands cheat sheet is an invaluable resource for developers and database administrators who utilize Redis, the popular in-memory data structure store. Redis is known for its high performance, scalability, and versatility, making it an excellent choice for caching, real-time analytics, and various other applications. In this article, we will explore the most essential Redis commands grouped by their functionalities, providing you with a comprehensive cheat sheet that simplifies working with Redis.

Introduction to Redis Commands

Redis commands are simple, yet powerful, allowing users to interact with the Redis database effectively. Each command consists of a command name followed optionally by one or more arguments. The syntax is straightforward, which contributes to Redis's ease of use and rapid adoption. The commands can be categorized into several types based on their purpose:

- Key commands
- Value commands
- List commands
- Set commands
- Hash commands
- Sorted Set commands
- Pub/Sub commands
- Transactions
- Scripting
- Server commands

This cheat sheet will provide a concise overview of these categories, listing essential commands along with brief descriptions.

Key Commands

Key commands are fundamental for managing the keys in a Redis database. Here are some of the most commonly used key commands:

Basic Key Operations

1. **DEL key**: Deletes a key.
2. **EXISTS key**: Checks if a key exists (returns 1 if it does, 0 if it doesn't).
3. **EXPIRE key seconds**: Sets a time-to-live (TTL) on a key in seconds.
4. **TTL key**: Returns the remaining time-to-live of a key.
5. **RENAME old_key new_key**: Renames a key.
6. **DUMP key**: Serializes the value stored at the specified key for persistence.
7. **TYPE key**: Returns the type of value stored at a key (string, list, set, etc.).

Key Pattern Matching

- **KEYS pattern**: Returns all keys matching the specified pattern. (Use with caution in production as it can block the server.)
- **SCAN cursor**: Iterates through keys in the database, returning a cursor for pagination.

Value Commands

Value commands allow you to manipulate simple string values in Redis.

String Operations

1. SET key value: Sets the value of a key.
2. GET key: Retrieves the value of a key.
3. MSET key1 value1 key2 value2 ...: Sets multiple keys at once.
4. MGET key1 key2 ...: Retrieves multiple keys at once.
5. INCR key: Increments the integer value of a key by one.
6. DECR key: Decrements the integer value of a key by one.
7. APPEND key value: Appends a value to the existing value of a key.

String Manipulation

- STRLEN key: Returns the length of the string value stored at a key.
- GETSET key value: Sets the value of a key and returns the old value.

List Commands

Redis supports lists, which are ordered collections of strings.

List Operations

1. LPUSH key value: Inserts a value at the head of the list.
2. RPUSH key value: Inserts a value at the tail of the list.
3. LPOP key: Removes and returns the first element of the list.
4. RPOP key: Removes and returns the last element of the list.
5. LRANGE key start stop: Returns a range of elements from the list.
6. LLEN key: Returns the length of the list.
7. LREM key count value: Removes the first count occurrences of the value from the list.

Set Commands

Sets in Redis are unordered collections of unique strings.

Set Operations

1. SADD key member: Adds a member to the set.
2. SREM key member: Removes a member from the set.
3. SMEMBERS key: Returns all members of the set.
4. SCARD key: Returns the number of members in the set.
5. SISMEMBER key member: Checks if a member is in the set.
6. SUNION key1 key2 ...: Returns the union of multiple sets.
7. SINTER key1 key2 ...: Returns the intersection of multiple sets.
8. SDIFF key1 key2 ...: Returns the difference between sets.

Hash Commands

Hashes are maps between string field and string values, allowing you to represent objects.

Hash Operations

1. HSET key field value: Sets the value of a field in a hash.
2. HGET key field: Gets the value of a field in a hash.
3. HDEL key field: Deletes a field from a hash.
4. HGETALL key: Gets all fields and values in a hash.
5. HKEYS key: Returns all field names in a hash.
6. HVALS key: Returns all values in a hash.
7. HINCRBY key field increment: Increments the integer value of a field by a specified amount.

Sorted Set Commands

Sorted sets are similar to sets but with an associated score for each member, enabling ordered retrieval.

Sorted Set Operations

1. ZADD key score member: Adds a member with a score to the sorted set.
2. ZREM key member: Removes a member from the sorted set.
3. ZRANGE key start stop: Returns members in a specified range by index.
4. ZRANGEBYSCORE key min max: Returns members with scores within the specified range.
5. ZCARD key: Returns the number of members in the sorted set.
6. ZSCORE key member: Gets the score associated with a member.

Pub/Sub Commands

Redis supports a publish/subscribe messaging paradigm.

Pub/Sub Operations

1. PUBLISH channel message: Sends a message to a channel.
2. SUBSCRIBE channel: Subscribes to a channel for receiving messages.
3. UNSUBSCRIBE channel: Unsubscribes from a channel.

Transactions

Redis allows the execution of multiple commands as a single transaction with the following commands:

1. MULTI: Starts a transaction block.
2. EXEC: Executes all commands in the transaction block.
3. DISCARD: Discards all commands in the transaction block.
4. WATCH key: Marks a key to be monitored for changes.

Scripting

Redis supports Lua scripting for more complex operations.

Scripting Operations

1. EVAL script numkeys key1 key2 ...: Executes a Lua script with specified keys.
2. EVALSHA sha1 numkeys key1 key2 ...: Executes a Lua script using its SHA1 hash.

Server Commands

Server commands provide insights into the server's state and performance.

Server Operations

1. INFO: Returns information and statistics about the server.
2. FLUSHDB: Deletes all keys in the current database.

3. FLUSHALL: Deletes all keys in all databases.
4. PING: Checks if the server is running.
5. SAVE: Saves the dataset to disk.

Conclusion

Utilizing the Redis commands cheat sheet can significantly enhance your efficiency when working with Redis. By mastering these commands, you will be better equipped to manage data, optimize performance, and implement complex features in your applications. Redis's simplicity and power provide a solid foundation for a wide range of use cases, from caching to real-time analytics, making it a critical tool for modern developers. Keep this cheat sheet handy as you navigate the rich set of commands Redis has to offer, and watch your productivity soar!

Frequently Asked Questions

What is a Redis command cheat sheet?

A Redis command cheat sheet is a quick reference guide that lists commonly used Redis commands along with their syntax and brief descriptions to help developers and database administrators efficiently use Redis.

What are some essential Redis commands for managing strings?

Essential Redis commands for managing strings include SET, GET, APPEND, and STRLEN, which allow you to set, retrieve, append to, and get the length of string values, respectively.

How do you create and manage lists in Redis?

You can create and manage lists in Redis using commands like LPUSH (to add elements to the beginning), RPUSH (to add elements to the end), LPOP (to remove elements from the beginning), and RPOP (to remove elements from the end).

What commands are used to handle sets in Redis?

Commands for handling sets include SADD (to add members), SREM (to remove members), SMEMBERS (to get all members), and SISMEMBER (to check if a member exists in a set).

How can you perform operations on hashes in Redis?

For hashes, you can use commands like HSET (to set a field in a hash), HGET (to get the value of a field), HDEL (to delete a field), and HGETALL (to retrieve all fields and values in a hash).

What are the commands to manage sorted sets in Redis?

Commands for managing sorted sets include ZADD (to add members with scores), ZREM (to remove members), ZRANGEBYINDEX (to get a range of members), and ZSCORE (to get the score of a member).

How can you work with Redis transactions?

You can work with Redis transactions using MULTI (to start a transaction), EXEC (to execute all commands in the transaction), and DISCARD (to discard the transaction).

What are some common Redis commands for key management?

Common key management commands include DEL (to delete a key), EXISTS (to check if a key exists), EXPIRE (to set a key's expiration time), and KEYS (to retrieve all keys matching a pattern).

Find other PDF article:

<https://soc.up.edu.ph/23-write/Book?trackid=sLn08-9693&title=free-language-arts-homeschool-curriculum.pdf>

Redis Commands Cheat Sheet

Reddit - Dive into anything

Reddit is a network of communities where people can dive into their interests, hobbies and passions. There's a community for whatever you're interested in on Reddit.

Does anyone know why Yahoo! mail is now so slow & terrible

Nov 3, 2022 · I contacted Yahoo! Support, which was a joke, because after several weeks it became clear that they were only interested in pointing fingers at other things that might be ...

PSA: email log in loop fix for yahoo/att problems : r/yahoo - Reddit

Apr 30, 2022 · r/yahoo Current search is within r/yahoo Remove r/yahoo filter and expand search to all of Reddit

"Too Many Failed attempts" in yahoo email : r/yahoo - Reddit

Jun 30, 2023 · Yahoo is an absolute shitshow Apparently my account is blocked because of too many attempts (repeatedly over the past month), which unless a bot/hacker somewhere is ...

how much is yahoo premium support before I call? : r/yahoo

Jan 12, 2023 · Hi. Our phone support agents will provide you information about the support subscription. In case they can assist you and you decide to get this subscription, you can ...

Yahoo finance portfolio 2.0 beta can't delete : r/yahoo - Reddit

Hi I have a couple of yahoo finance beta 2.0 portfolios showing on the iOS app which I can't seem to see to delete on the web app. Can anyone throw any light on this thanks

I keep getting "Your Yahoo verification code is" login attempts

Feb 24, 2020 · 73 votes, 150 comments. Starting a few days ago I started getting Yahoo notifications to submit the verification code for login attempts. I got one a...

Chrome has defaulted all searches to Yahoo... Help! : r/chrome

Oct 2, 2020 · This problem started happening about a month ago. Whenever I open a new Chrome window or tab, in both a regular window and incognito window, instead of binging me ...

Can anyone Help me with my email? : r/yahoo - Reddit

Jan 16, 2023 · Yahoo makes the world's daily habits inspiring and entertaining! Yahoo was created at Stanford University by Jerry Yang and David Filo while they were both still students. ...

Yahoo search instead of Google (browser hijacking?) : r/chrome

Apr 5, 2020 · Hi all, When I open a new tab (or use an existing one) to search for something, I get redirected to Yahoo search. I'm having this problem for 2 months now I think, even though I ...

Wear performance of Ni-WC composites and heat-damage ...

Jun 1, 2024 · The coarse WC particles provide better wear resistance than fine WC particles. The WC particles underwent heat erosion and dissolution caused by the Ni-based melt. Increasing ...

Influence of WC particle behavior on the wear ... - ScienceDirect

Jul 1, 2004 · In this paper, two kinds of gradient Ni-WC composite coatings prepared by precisely controlling laser processing parameters were characterized by scanning electron microscopy ...

Effect of WC content on hardness and fracture toughness of WC ...

Sep 15, 2024 · Xu et al. [16] used in-situ tensile testing of WC-Ni composite coatings to show adding more WC-enhanced particles and found that increase in stress concentration near the ...

Tailoring high WC addition and crack-free Ni-WC coatings by ...

Apr 1, 2025 · 1. Introduction Due to low preparation temperature, high hardness, wear resistance, corrosion resistance and working temperature [1], [2], Ni-WC composites composed of Ni ...

The microstructure and wear properties of Ni-coated and ...

Dec 1, 2024 · Among various reinforcing materials, WC particles are widely used as a hard phase due to its excellent properties, including ultrahigh strength, high density, wear resistance, and ...

Effect of WC particles preparation method on microstructure and ...

Jan 1, 2023 · At this time, the friction shear force is less than the bonding strength, and the groove of the hard abrasive at the position of the WC particles is interrupted to form a black ...

Effects of WC particles on microstructure and wear behavior of ...

Aug 1, 2023 · In the process of LC, some dissolved WC particles and Ni powder react in the molten pool to form carbide, borides and other hard phases. Meanwhile, undissolved nano WC ...

Microstructures and wear behaviors of WC particle reinforced ...

Jun 9, 2023 · Ni₂W₄C carbide phase was formed inside the composite coating of WC hard phases and the wear resistance of the composite improved greatly compared with Ni-based ...

Evaluation and mechanisms on heat damage of WC particles in ...

Apr 1, 2017 · In this work, Ni-based WC composite coatings with different WC contents have been produced by LIHC. The objective is to evaluate the heat damage degree of WC particles and ...

Effect of WC on microstructure, molten pool and properties of Ni ...

Jul 1, 2024 · The wear resistance of the gradient composite coating was 364% higher than 20CrMnTi according to a friction test and wear comparison. The influence of ceramic particles ...

Unlock the power of Redis with our comprehensive Redis commands cheat sheet. Boost your productivity and master key commands effortlessly. Learn more!

[Back to Home](#)