

Redis Commands

This is not a comprehensive list of every single redis command, however we cover most of these. This will help you as a reference. Otherwise feel free to look at <http://redis.io/commands> for every command available.

Installation

Strongly recommended to use a **UNIX** based system. Windows has a download, however it is not official and not extremely stable, but you can still use it for learning.

Install in Ubuntu/Debian:

```
$ sudo apt-get install redis-server  
$ sudo service redis-server start
```

Redis CLI

```
$ redis-cli
```

Monitor Redis

```
$ redis-cli monitor
```

Strings

```
# Setting
```

```
> set name jesse  
> set age 30
```

```
# Getting
```

```
> get juicy  
> get age
```

```
# Appending
```

```
> append name " is my name!"
```

```
# increment by 1
```

```
> incr age
```

```
# increment by any
```

```
> incrby age 5
```

```
# decrement by 1
```

> decr age

decrement by any

> decyby 3

Get string length

Command: strlen [key]

> strlen name

Set multiple values

Command: mset [key] [value] [..key] [..value]

> mset mammal whale insect spider

Set multiple values if key does not exists (nx)

Command: msetnx [key] [value] [..key] [..value]

> msetnx mammal whale insect spider

Keys

List all keys in a database

> keys *

Get the DataType of a Key

> type name

> type age

Delete a key

Command: del [key]

> del name

Does a key exists

Command: exists [key]

> exists name

Get Multiple Keys

Command: mget [key] [..key]

> mget name age

Set Expiration in UNIX epoch

> expire name 1504566531

Expire a key in a number of milliseconds

> pexpire name 100000

Check the Time to Live for an expiring Key
> ttl name

Remove Expiration from a key
> persist name

Name a key
> rename name person

Rename a key if the new one does not exist
> renamenx person someone

Hashes

Set a Hash
Command: hset [hash] [member] [value]
> hset people john 23
> hset people teddy 30

Set Multiple Hashes
Command: hmset [hash] [member] [value] [..member] [..value]
> hmset people barny 50 graham 55 chuck 60

Get Hash Data
> hgetall people

Get Single Hash Value Data
> hget people john

Get Multiple Hash Values
> hmget people barny graham

Delete a member from a hash
> hdel people john teddy

Check if a hash exists
> hexists people jake

Lists

Create a new list (Or add to one)

> lpush colors red (Prepends)

> rpush colors green (Appends)

Push an item to a list only if the list exists

> lpushx animals whale

> rpushx animals dog

Set a List Item to a different value based on the Index

> lset colors 1 yellow

Inserts an item into a list based of a value

Command: linsert colors [before | after] [value] [new_value]

> linsert colors before green yellow

Get the List Length

> llen colors

Remove the First or last item

> lpop colors (first item)

> rpop colors (last item)

Get the Value of a List Index

> lindex colors 2

Show all List Items

> lrange colors 0 -1

Show List items with indexes from 0 to 5

> lrange colors 0 5

Sets

Create/Add Set

Command: sadd [key] [value]

> sadd art pencil

Create/Add Multiple to Set

Command: sadd [key] [value] [..value]

> sadd art charcoal paint oink

Remove a set item based on value

> srem art oink

Get all the members of a set

> smembers art

Check if an item is a member

> sismember art pencil

Get a random member

> srandmember art 2

Remove a random member from a Set

> spop art

See how many items are in a set

> scard art

Sorted Sets

Add/Create Sorted Set

Command: zadd [key] [score] [member]

> zadd bowling 50 jane

Add/Create Multiple Values to a Sorted Set

Command: zadd [key] [score] [member] [..score] [..member]

> zadd bowling 75 mark 100 tim 150 daniel

Count how many items are in a Sorted Set

> zcard bowling

Count how many items are in a Sorted Set between a value of scores

Command: zcount [key] [min] [max]

zcount bowling 100 200

zrange key start stop

zrange key start stop 'withscore'

zrank key member

zrem key member [..member]

zrevrange

zrevrangebyscore

zrevrank

zscore

HyperLogLog

- > pfadd key element [..element]
- > pfcount key [..key]
- > pfmerge new_key key [..key] [..key]

Pub/Sub

(Three Terminals)

Terminal (1)

- > subscribe chatroom

Terminal (2)

- > subscribe chatroom

Terminal (3)

- > publish chatroom hello

Terminal (1) * You can use unsubscribe from a Client Wrapper, Terminal is Ctrl+C to unsubscribe.

- > unsubscribe chatroom

Terminal (3)

- > publish chatroom How is life?

Transactions

Begin a Transaction

- > MULTI
- > set what "A Series of Commands"
- > set is "that require all of them to work"
- > set this "in order to process a transaction"

Complete Transaction (Always happens after MULTI is called)

- > EXEC

Cancel Transaction (Always happens after MULTI is called)

- > DISCARD

Connection

Ping the Server

> ping

Select a Database (0 is the default)

> select 1

Echo a String

> echo "Hello World"

Leave Redis

> quit

Require authorization to run commands

This is under /etc/redis/redis.conf ' titled: requirepass your-password

Requires a Redis Server Restart.

> auth password

Server

Get server info

> info

Set a Clients Connection name

> client setname samuel

Get a Clients Connection name

> client getname

Get a a of Client Connections

> client list

Kill a Client by a Set ID

> client kill id samuel

Kill a Client by UID (If a Client name was not set, this data will be in the > client list)

> client kill addr ip:port

Remove all values from the current database
> flushdb

Remove all values from all databases (Dangerous)
> flushall

Save a Snapshot of the Redis Database to an RDB file
> save

Save a Snapshot of the Redis Database to an RDB file in the background (Asynchronous Forked while other processes are still running)
> bgsave

See the last time the database was saved to an RDB file
> lastsave

Get the server time as a UNIX timestamp and Microseconds within the current timestamp
> time

Stop all Clients and force save
> shutdown save

Stop all Clients and prevent a save
> shutdown nosave

Where are RDB files saved?

```
$ cat /etc/redis/redis.conf | grep "rdb"
```