Open Telekom Cloud

Distributed Cache Service (DCS)

Cheat sheet

Strings

APPEND key value	Append value
DECR key	Decrement integer
DECRBY key by	Subtract from integer
GET key	Get string by key
GETBIT key offset	Get bit by index
GETRANGE key start end	Get substring
GETSET key value	Set, returning old value
INCR key	Increment integer
INCRBY key by	Add to integer
INCRBYFLOAT key by	Add to float
MGET [key]+	Get multiple string values
MSET [key value]+	Set multiple strings
MSETNX [key value]+	Set multiple if doesn't exist
PSETEX key ms value	Set with expiry (ms)
SET key value	Set a key with a value
SETBIT key offset value	Set bit by index
SETEX key secs value	Set with expiry (s)
SETNX key value	Set if doesn't exist
SETRANGE key offset value	Set substring
STRLEN key	Get length of string

Lists

BLPOP [key]+ timeout	Blocking left pop
BRPOP [key]+ timeout	Blocking right pop
BRPOPLPUSH src dest timeout	Blocking rotate
LINDEX key index	Access by index
LINSERT key BEFORE | AFTER pivot value	Insert element next to existing element
LLEN key	Get length of list
LPOP key	Pop from start
LPUSH key [value]+	Push onto start
LPUSHX key value	Push if list exists
LRANGE key start stop	Access range
LREM key count value	Remove occurrences
LSET key index value	Set item by index
LTRIM list start stop	Remove start/end items
RPOP key	Pop from end
RPOPLPUSH src dest	Rotate
RPUSH key [value]+	Push onto end
RPUSHX key value	Push onto end if list exists

Links

DCS Types	UMN
DCS Specifications	Redis 4&5 Redis 6
DCS Migration	Migration guide
DCS FAQ	FAQs

Clients

Command line
Web Interface
C# Java Go Node Python

Hashes

HDEL key [field]+	Delete field(s)
HEXISTS key field	Check for field
HGET key field	Get item
HGETALL key	Return all fields / values
HINCRBY key field by	Add to integer value
HINCRBYFLOAT key field by	Add to float value
HKEYS key	Return all fields
HLEN key	Get number of fields
HMGET key [field]+	Get multiple items
HMSET key [field value]+	Set multiple items
HSCAN key cursor [MATCH pattern] [COUNT count]	Iterate fields
HSET key field value	Set field
HSETNX key field value	Set field if doesn't exist
HSTRLEN key field	Get string length of field
HVALS key	Return all values

Sets

SADD key [member]+	Add item
SCARD key	Get size of set
SDIFF [key]+	Get difference
SDIFFSTORE dest [key]+	Store difference
SINTER [key]+	Set Intersection
SINTERSTORE dest [key]+	Store intersection
SISMEMBER key member	Check for item
SMEMBERS key	Get all items
SMOVE src dest member	Move item to another set
SPOP key [count]?	Pop random item
SRANDMEMBER key [count]	Get random item
SREM key [member]+	Remove matching
SSCAN key cursor [MATCH pattern] [COUNT count]	Iterate items with cursor
SUNION[key]+	Read member from the union
SUNIONSTORE dest [key]+	Store union

DCS API's (v2)

Instance **Life-Cycle Management**	API	Cache performance - Big Key Analysis	API
Instance **Elastic Scaling**	API	Cache performance - Hot Key Analysis	API
Instance **Network - SSL**	API	Cache performance - Expired Key Scan	API
Instance **Network - Whitelist**	API	Instance - Configuration parameters	API

TerraForm

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Sorted Sets

ZADD key [options] [score item]+	Add set item
ZCARD key	Get number of items
ZCOUNT key min max	Number of items with score range
ZINCRBY key incr member	Add to score
ZINTERSTORE	Store intersection
ZLEXCOUNT key min max	Lexicographical range count
ZRANGE key start stop [WITHSCORES]	Get items within rank range
ZRANGEBYLEX key min max [LIMIT offset count]	Get items within lexicographical range
ZRANGEBYSCORE key min max [WITHSCORES] [LIMIT offset count]	Get items within score range
ZRANK key member	Get item rank
ZREM key [member]+	Remote item(s)
ZREMRANGEBYLEX key min max	Remove items within lexicographical range
ZREMRANGEBYRANK key start stop	Remove items within rank range
ZREMRANGEBYSCORE key min max	Remove items within score range
ZREVRANGE	ZRANGE in reverse order
ZREVRANGEBYLEX	ZRANGEBYLEX in reverse order
ZREVRANGEBYSCORE	ZRANGEBYSCORE in reverse order
ZREVRANK	ZRANK in reverse order
ZSCAN key cursor [MATCH pattern] [COUNT count]	Iterate items
ZSCORE key member	Get item score
ZUNIONSTORE dest numkeys [key]+ [WEIGHTS [weight]+] [AGGREGATE SUM|MIN|MAX]	Store union

Streams

XADD stream [id] field values	Appends a new entry to a stream.
XINFO stream	Info about the stream (item)
XREAD [COUNT] [BLOCK] stream keys	Read data from one or multiple streams
XLEN key	Count entries inside a stream
XRANGE key start end [COUNT count]	Read specific part of a stream
XTRIM key threshold [LIMIT count]	Deleting entries of a stream
XGROUP CREATE key group [MKSTREAM]	Create new consumer group
XGROUP CREATECONSUMER key group consumer	Create consumer
XGROUP DELCONSUMER key group consumer	Delete consumer
XGROUP DESTROY key group	Delete consumer group
XGROUP SETID key group [ENTRIESREAD entries-read]	Set last stream ID for group
XINFO CONSUMERS key group	Details about consumers
XINFO GROUPS key	Details about consumer group
XACK key group id [id ...]	Removing entry from PEL
XCLAIM key group consumer id [id ...] [IDLE ms] [RETRYCOUNT count] [FORCE] [JUSTID] [LASTID lastid]	Change consumer / group
XAUTOCLAIM key group consumer min-idle-time start [COUNT count]	Transfer ownership
XPENDING key group [[IDLE min-idle-time] start end count [consumer]]	List pending entries from PEL
XREVRANGE key end start [COUNT count]	Read reverse range like XRANGE
XDEL key id [id ...]	Deleting element from stream

Since v5 - Messaging architecture using Streams

Database

DEL [key]+	Delete item(s)
DUMP key	Serialise item
EXISTS [key]+	Check for key
EXPIRE key s	Set timeout on item
EXPIREAT key ts	Set timeout by timestamp
MOVE key db	Transfer item between databases
OBJECT	Inspect key like FREQ, IDLETIME
PERSIST key	Remove timeout
PEXPIRE key ms	Set timeout (ms)
PEXPIREAT key ts	Set timeout (timestamp)
PTTL key	Get item Time-To-Live in ms
RANDOMKEY	Get random key
RENAME key new	Change item's key
RENAMENX key new	Change key if new key doesn't exist
SCAN key cursor [MATCH pattern] [COUNT count]	Iterate keys and values with pages
TTL key	Get item Time-To-Live in seconds
TYPE key	Get type of item

Cluster

CLUSTER KEYSLOT key	Returns slot for cluster shard
CLUSTER GETKEYSINSLOT slot count	Get hash slot for shard
CLUSTER INFO	Details about cluster and nodes
CLUSTER COUNTKEYSINSLOT	Number of keys in a slot
CLUSTER NODES	List of nodes, status and slots
CLUSTER SLOTS	Returns shard mapping and slots

Command details & restrictions Redis 4, Redis 5, Redis 6

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