

## Instalando Redis:

```
luanamero — redis-server *:6379 — 167x48
luanamero — zsh — 80x24
Last login: Thu Aug 14 17:13:02 on ttys000
luanamero@MacBook-Air-de-Luana ~ % redis-cli ping
PONG
luanamero@MacBook-Air-de-Luana ~ %

Redis Open Source
8.2.0 (00000000/1) 64 bit
Running in standalone mode
Port: 6379
PID: 5320

https://redis.io

5320:M 14 Aug 2025 17:13:34.744 # WARNING: The TCP backlog setting of 511 cannot be enforced because kern.ipc.somaxconn is set to the lower value of 128.
5320:M 14 Aug 2025 17:13:34.745 * Server initialized
5320:M 14 Aug 2025 17:13:34.745 * Ready to accept connections tcp
```

Create database

Price \$0/month

First \$200 free

Settings

Name

database-luana


Database version

☒ 7.4 ☐ 8.0 [Preview](#)

Cloud vendor

aws Amazon Web Services

Region

 South America (Sao Paulo) sa-east-1

Included in your Free plan

✓ 1 database

✓ 30 connections

✓ 30MB RAM

✓ Capabilities

Cancel

Create database

## 1. Chaves

### 1.1

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET simples "um valor"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> GET simples
"um valor"
```

### 1.2

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET simples "um valor"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:1 "Alice"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:2 "Bob"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:3 "Carol"
OK
```

### 1.3

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> KEYS "*"
1) "usuario:3"
2) "usuario:1"
3) "simples"
4) "usuario:2"
```

### 1.4

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> KEYS "usuario:*"
1) "usuario:3"
2) "usuario:1"
3) "usuario:2"
```

### 1.5

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:11 "Daniel"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:21 "Eva"
OK
```

### 1.6

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> KEYS "*1"
1) "usuario:11"
2) "usuario:1"
3) "usuario:21"
```

### 1.7

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET usuario:31 "Fiona"
OK
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> █
```

## 1.8

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> KEYS "usuario:2*1"
1) "usuario:21"
█
```

## 1.9

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> RENAME usuario:1 usuario:01
OK
█
```

## 1.10

```
OK
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> KEYS "*1"
1) "usuario:11"
2) "usuario:01"
3) "usuario:31"
4) "usuario:21"
█
```

## 1.11

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> DEL usuario:3
(integer) 1
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> █
```

## 1.12

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> EXPIRE usuario:2 10
(integer) 1
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL usuario:2
(integer) 4
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL usuario:2
(integer) -2
█
```

# 2. String

## 2.1 a 2.5

```
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET animal "gato"
OK
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> GET animal
"gato"
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> GETSET animal "peixe"
"gato"
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> APPEND animal "-espada"
(integer) 12
(redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> GET animal
"peixe-espada"
█
```

## 2.6 a 2.9

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET count 0
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> INCR count
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> INCRBY count 10
(integer) 11
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> STRLEN count
(integer) 2
```

### 3. Hashes

#### 3.1 a 3.5

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HEXISTS animais cachorros
(integer) 0
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HSET animais cachorros 25
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HSET animais gatos 37
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HSET animais peixes 28
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HGETALL animais
1) "cachorros"
2) "25"
3) "gatos"
4) "37"
5) "peixes"
6) "28"
```

#### 3.5 a 3.10

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HMGET animais cachorros gatos
1) "25"
2) "37"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HSET arvores palmeira 81 pinheiro 23 baoba 1
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HVALS arvores
1) "81"
2) "23"
3) "1"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HKEYS arvores
1) "palmeira"
2) "pinheiro"
3) "baoba"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HSET arvores pinheiro 12
(integer) 0
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> HGET arvores pinheiro
"12"
```

### 4. Listas

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> RPUSH tarefas "Verificar correio"
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> RPUSH tarefas "Abrir correio"
(integer) 2
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LPUSH tarefas "Iniciar sistema"
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LLEN tarefas
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LRANGE tarefas 0 -1
1) "Iniciar sistema"
2) "Verificar correio"
3) "Abrir correio"
(2.52s)
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LRANGE tarefas 0 -1
1) "Iniciar sistema"
2) "Verificar correio"
3) "Abrir correio"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LSET tarefas 0 "Abrir o correio"
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LRANGE tarefas 0 1
1) "Abrir o correio"
2) "Verificar correio"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LPOP tarefas
"Abrir o correio"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LINDEX tarefas 1
"Abrir correio"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> LRANGE tarefas 0 -1
1) "Verificar correio"
2) "Abrir correio"
(2.57s)
```

## 5. SETS

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SADD cesta:1 "maçãs" "laranjas" "bananas"
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SMEMBERS cesta:1
1) "ma\x3c3\xa7\x3c3\xa3s"
2) "laranjas"
3) "bananas"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SADD cesta:2 "abacaxis" "bananas" "laranjas"
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SMEMBERS cesta:2
1) "abacaxis"
2) "bananas"
3) "laranjas"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SINTER cesta:1 cesta:2
1) "laranjas"
2) "bananas"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SMOVE cesta:2 cesta:1 abacaxis
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SUNIONSTORE allbaskets cesta:1 cesta:2
(integer) 4
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SREM cesta:1 laranjas
(integer) 1
```

## 6. Sorted sets

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZADD equipe:1 69 Joao 67 Leonardo 70 Sergio 68 Sandra 70 Ana 73 Maria
(integer) 6
(0.58s)
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZCARD equipe:1
(integer) 6
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZCOUNT equipe:1 70 75
(integer) 3
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZRANGEBYSCORE equipe:1 65 70
1) "Leonardo"
2) "Sandra"
3) "Joao"
4) "Ana"
5) "Sergio"
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZRANK equipe:1 Sandra
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> ZREVRANGEBYSCORE equipe:1 69 65
1) "Joao"
2) "Sandra"
3) "Leonardo"
```

## 7. TTL

```
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> SET quote:221 94.23
OK
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL quote:221
(integer) -1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> EXPIRE quote:221 30
(integer) 1
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL quote:221
(integer) 22
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL quote:221
(integer) 18
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420> TTL quote:221
(integer) -2
[redis-13420.crce181.sa-east-1-2.ec2.redns.redis-cloud.com:13420>
```

## Etapas da 8 a 12

```
luanamero@MacBook-Air-de-Luana bigdat % /Users/luanamero/Documents/bigdat/.venv/bin/python redis_articles_modeling.py
=== Redis - Modelagem de Artigos e Tags ===

8. MODELAGEM BÁSICA - Criando artigos com HASH e tags com SET:
Artigo 1 criado: ID 1
Artigo 2 criado: ID 2
Artigo 3 criado: ID 3

9. DADOS RELACIONADOS - Artigos e tags conectados via SETs

10. LISTAR TODOS OS ARTIGOS:
ID: 1 | Nome: Introdução ao Redis | Tags: ['database', 'tutorial', 'nosql', 'redis']
ID: 2 | Nome: Python e Redis | Tags: ['python', 'programming', 'tutorial', 'redis']
ID: 3 | Nome: Estruturas de Dados no Redis | Tags: ['data_structures', 'advanced', 'redis']

11. LISTAR UM ÚNICO ARTIGO (ID 1):
Nome: Introdução ao Redis
Descrição: Guia básico sobre Redis e suas funcionalidades
Arquivo: redis_intro.md
Tags: ['database', 'tutorial', 'nosql', 'redis']

12. LISTAR ARTIGOS POR TAG(S):
Artigos com tag 'redis':
- Introdução ao Redis (Tags: ['database', 'tutorial', 'nosql', 'redis'])
- Python e Redis (Tags: ['python', 'programming', 'tutorial', 'redis'])
- Estruturas de Dados no Redis (Tags: ['data_structures', 'advanced', 'redis'])

Artigos com tags 'redis' E 'tutorial':
- Introdução ao Redis (Tags: ['database', 'tutorial', 'nosql', 'redis'])
- Python e Redis (Tags: ['python', 'programming', 'tutorial', 'redis'])
```