

# REDIS

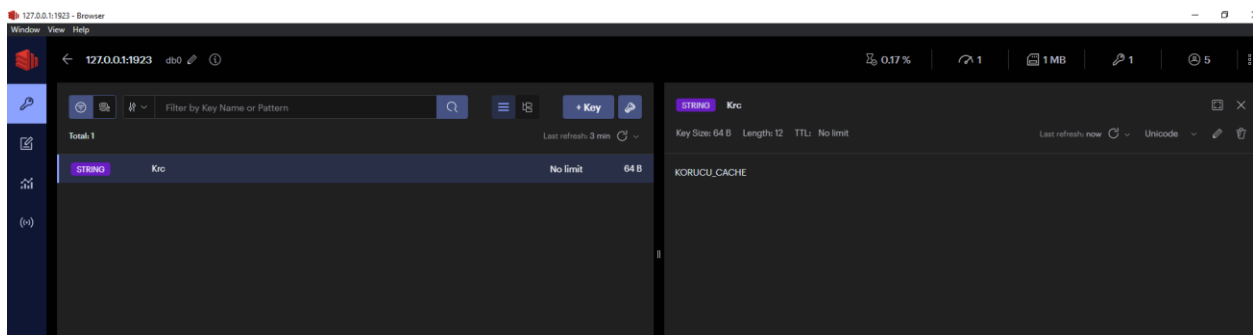
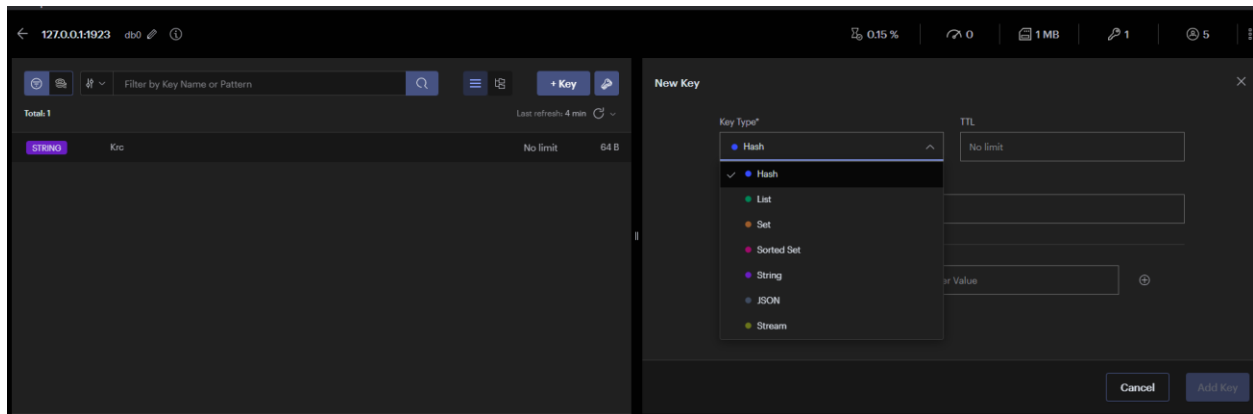
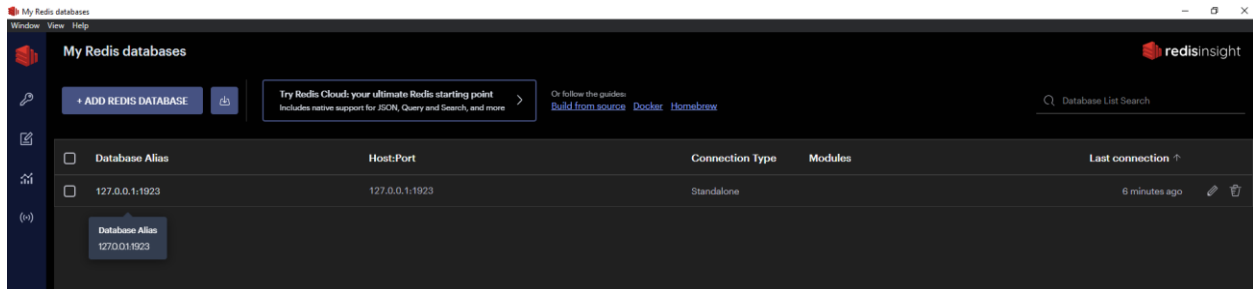
## Redis Dockerize

```
Windows PowerShell
PS C:\Users\Ba> docker run --name redis -p 1923:6379 -- redis
485326170436a7c2d612c371e891bcea79805c74618223426d5772c74bc861
docker: Error response from daemon: driver failed programming external connectivity on endpoint redis (d84a442b9fa109f3e253cccd3fd9e2b9cd87d4948fca3fbb88619f56b10a77a): Bind for 0.0.0.0:1923 failed: port is already allocated.
PS C:\Users\Ba> docker run --name redis -p 1923:6379 -- redis
docker: Error response from daemon: Conflict. The container name "/redis" is already in use by container "485326170436a7c2d612c371e891bcea79805c74618223426d5772c74bc861". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
PS C:\Users\Ba> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
8835cd0f70ab  redis:latest  "docker-entrypoint.s..." About a minute ago Up About a minute  0.0.0.0:1923->6379/tcp             stoic_heisenberg
PS C:\Users\Ba> docker exec -it 883
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage: docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Execute a command in a running container
PS C:\Users\Ba> docker exec -it 883 redis-cli
127.0.0.1:6379> ping
PONG
127.0.0.1:6379> ping korucu
"korucu"
127.0.0.1:6379> .
```

## Redis insight



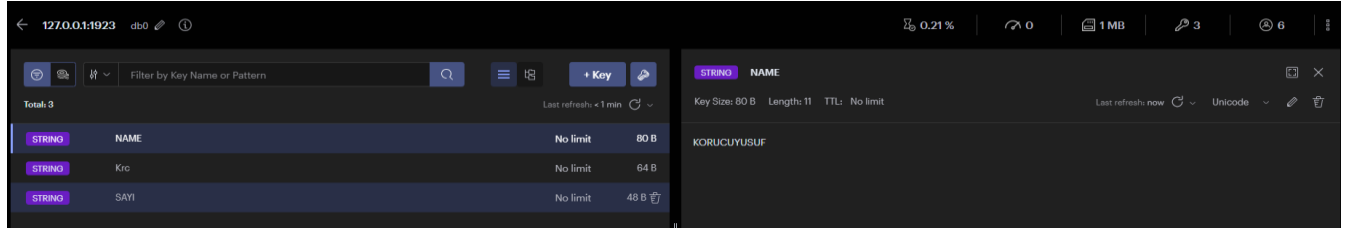
### Redisdeki veri türleri nelerdir ?

Veri Tipi	Açıklama
Hash	Key – Value formatında very tutan türdür
List	Değerleri koleksiyonel olarak tutan türdür
Sorted Set	Set'in düzenli bir şekilde tutan versiyonudur
String	Redisin en temel veri türü binary olarak resim dosya vb. saklanabilir.
JSON	JavaScript Object Notation olarak tutulan türdür.
Stream	Log gibi sürekli akan veri türüdür.Streams eventlerin oluşuktan sonra sırasıyla kaydedilmesini ve daha sonra işlenmesini sağlar.
Geospatial Indexes	Cografi koordinatların saklanmasını sağlayan veri türüdür.

### REDİS Strings

Metinsel değerleri tutan en temel veri türüdür.

KOMUT	İŞLEVİ	ÖRNEK
SET	Ekleme	<b>SET NAME KORUCU</b> 127.0.0.1:6379> SET NAME KORUCU OK
GET	Okuma	<b>GET NAME KORUCU</b> 127.0.0.1:6379> GET NAME "KORUCU"
GETRANGE	Karakter Aralığı Okuma	<b>GETRANGE NAME 3 6</b> 127.0.0.1:6379> GETRANGE NAME 3 6 "UCU"
INCR & INCRBY	Arttırma	<b>INCR SAYI</b> 127.0.0.1:6379> INCR SAYI (integer) 1 127.0.0.1:6379> INCR SAYI (integer) 2 127.0.0.1:6379> INCR SAYI (integer) 3
DECR & DECRBY	Azaltma	<b>DECR SAYI</b> 127.0.0.1:6379> DECR SAYI (integer) 2 127.0.0.1:6379> DECR SAYI (integer) 1 127.0.0.1:6379>
APPEND	Üzerine Ekleme	<b>APPEND NAME YUSUF</b> 127.0.0.1:6379> APPEND NAME YUSUF (integer) 11 127.0.0.1:6379> GET NAME "KORUCUYUSUF"



## REDİS List

Değeri koleksiyon olarak tutan türdür.

KOMUT	İŞLEVİ	ÖRNEK
LPUSH	Başa veri ekler	127.0.0.1:6379> LPUSH NAMES yusuf ahmet mehmet (integer) 3 127.0.0.1:6379>
LRANGE	Veri Listeleme	127.0.0.1:6379> LRANGE NAMES 0 -1 1) "mehmet" 2) "ahmet" 3) "yusuf"
RPUSH	Sona veri ekleme	127.0.0.1:6379> RPUSH NAMES Mustafa (integer) 4 127.0.0.1:6379>
LPOP	İlk datayı çıkarma	127.0.0.1:6379> LPOP NAMES "mehmet"
RPOP	Son datayı çıkarma	127.0.0.1:6379> RPOP NAMES "Mustafa"
LINDEX	Indexe göre datayı getirme	127.0.0.1:6379> LINDEX NAMES 1 "yusuf"

LIST NAMES No limit 152 B	
Index	Element
0	ahmet
1	yusuf

## REDİS Set

Birbirinden farklı değerleri içeren veri kümeleri oluşturmak için kullanılan veri türleridir. Sıralama olmaksızın unique veri tutar.



SET

CAMPIDS2

Key Size: 72 B

Length: 3

TTL: No limit

Last refresh: now

Unicode

Add Members

Member

Search

3	
4	
5	

## REDİS Sorted Set

Sıralı şekilde tutuyor unique değerleri.

Her veriye score atılır sıralama ona göre yapılır.

KOMUT	İŞLEVİ	ÖRNEK
ZADD	Ekleme	<pre>127.0.0.1:6379&gt; ZADD TASK 1 DEV (integer) 1 127.0.0.1:6379&gt; ZADD TASK 2 TEST (integer) 1 127.0.0.1:6379&gt; ZADD TASK 3 PROD (integer) 1</pre>
SREM	Slime	<pre>127.0.0.1:6379&gt; ZREM TASK PROD (integer) 1</pre>
ZRANGE	Getirme	<pre>127.0.0.1:6379&gt; ZRANGE TASK 0 -1 WITHSCORES 1) "DEV" 2) "1" 3) "TEST" 4) "2" 5) "PROD" 6) "3"</pre>
ZREVRANK	Sıralama Öğrenme	<pre>127.0.0.1:6379&gt; ZREVRANK TASK DEV (integer) 1</pre>

SORTED SET

TASK

No limit

72 B

SORTED SET

TASK

Key Size: 72 B

Length: 2

TTL: No limit

Last refresh: < 1 min

Unicode

Add Members

Member	Score ↑	
DEV	1	
TEST	2	

## REDİS Hash

Key-Value formatında veri tutan veri türüdür

KOMUT	İŞLEVİ	ÖRNEK
HMSET & HSET	Ekleme	127.0.0.1:6379> HMSET USER username yusufkorucu OK 127.0.0.1:6379> HMSET USER password 123123 OK 127.0.0.1:6379> HSET USER email yusuf@korucu.com (integer) 1
HMGET & HGET	Getirme	127.0.0.1:6379> HMGET USER username 1) "yusufkorucu" 127.0.0.1:6379> HGET USER username "yusufkorucu"
HDEL	Silme	127.0.0.1:6379> HDEL USER email (integer) 1
HGETALL	Tümünü getirme	127.0.0.1:6379> HGETALL USER 1) "username" 2) "yusufkorucu" 3) "password" 4) "123123"

HASH	USER	No limit	96 B
------	------	----------	------

HASH	USER	Key Size: 96 B	Length: 2	TTL: No limit	Last refresh: < 1 min	Unicode	+ Add Fields
Field	Value						
username	yusufkorucu						
password	123123						

## In memory cache Absolute & Sliding Expiration

### Absolute Time

Cachedeki datanın ne kadar tutulacağına dair net ömrü belirtir. Bu ömür bitince cache direct ucurlur.

### Sliding Time

Datanın belirli sürelerle periyotlarla uzatılmasını sağlar. ne kadar erişim yapılırsa o kadar süre uzar. Taki absolute time gelene kadar sonrasında cahe ucurlur

## Pub/Sub

### Redis Cli ile

```
Windows PowerShell
127.0.0.1:6379> publish korucu merhabayusuf
(integer) 2
127.0.0.1:6379>

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Iba> docker exec -it 8dd redis-cli
127.0.0.1:6379> subscribe korucu
Reading messages... (press Ctrl-C to quit)
1) "subscribe"
2) "korucu"
3) (integer) 1
1) "message"
2) "korucu"
3) "merhabayusuf"

Windows PowerShell
PS C:\Users\Iba> docker exec -it 8dd redis-cli
127.0.0.1:6379> subscribe korucu
Reading messages... (press Ctrl-C to quit)
1) "subscribe"
2) "korucu"
3) (integer) 1
1) "message"
2) "korucu"
3) "merhabayusuf"
```

### Redis Insight

127.0.0.1:6379

db0

0.12 %

0

1 MB

2

3

Pub/Sub

You are subscribed Messages: 2

Unsubscribe

Timestamp	Channel	Message
13:58:49 05 Jun 2023	korucu	
13:59:04 05 Jun 2023	korucu	test

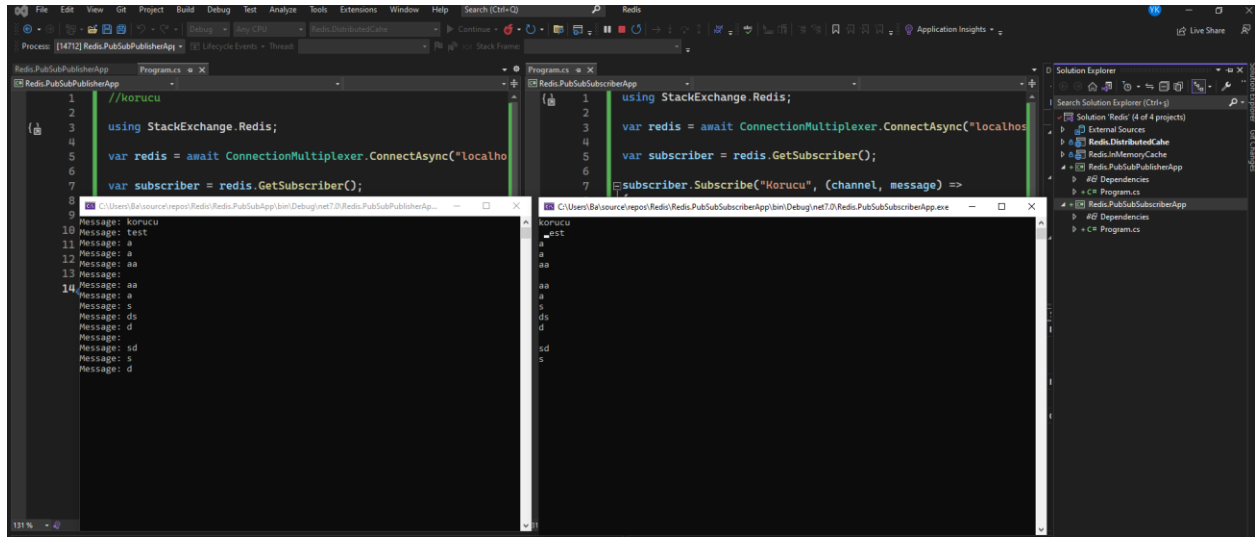
korucu

Enter Message

✓ 1 A

Publish

### Redis Api



REFERANSLAR

[www.gencayyildiz.com](http://www.gencayyildiz.com)