



MultiRedis

Because 1 redis database isn't enough

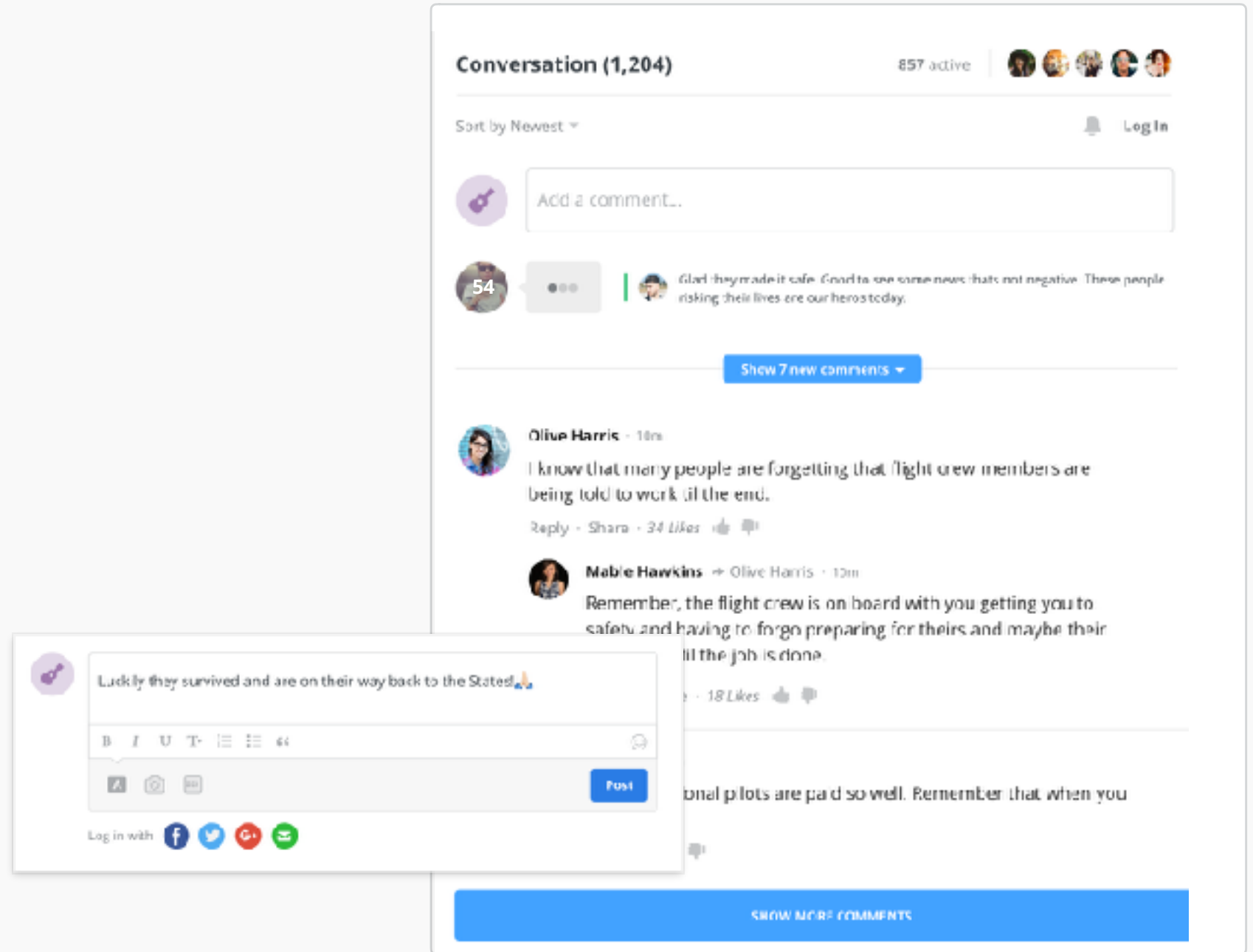


MultiRedis

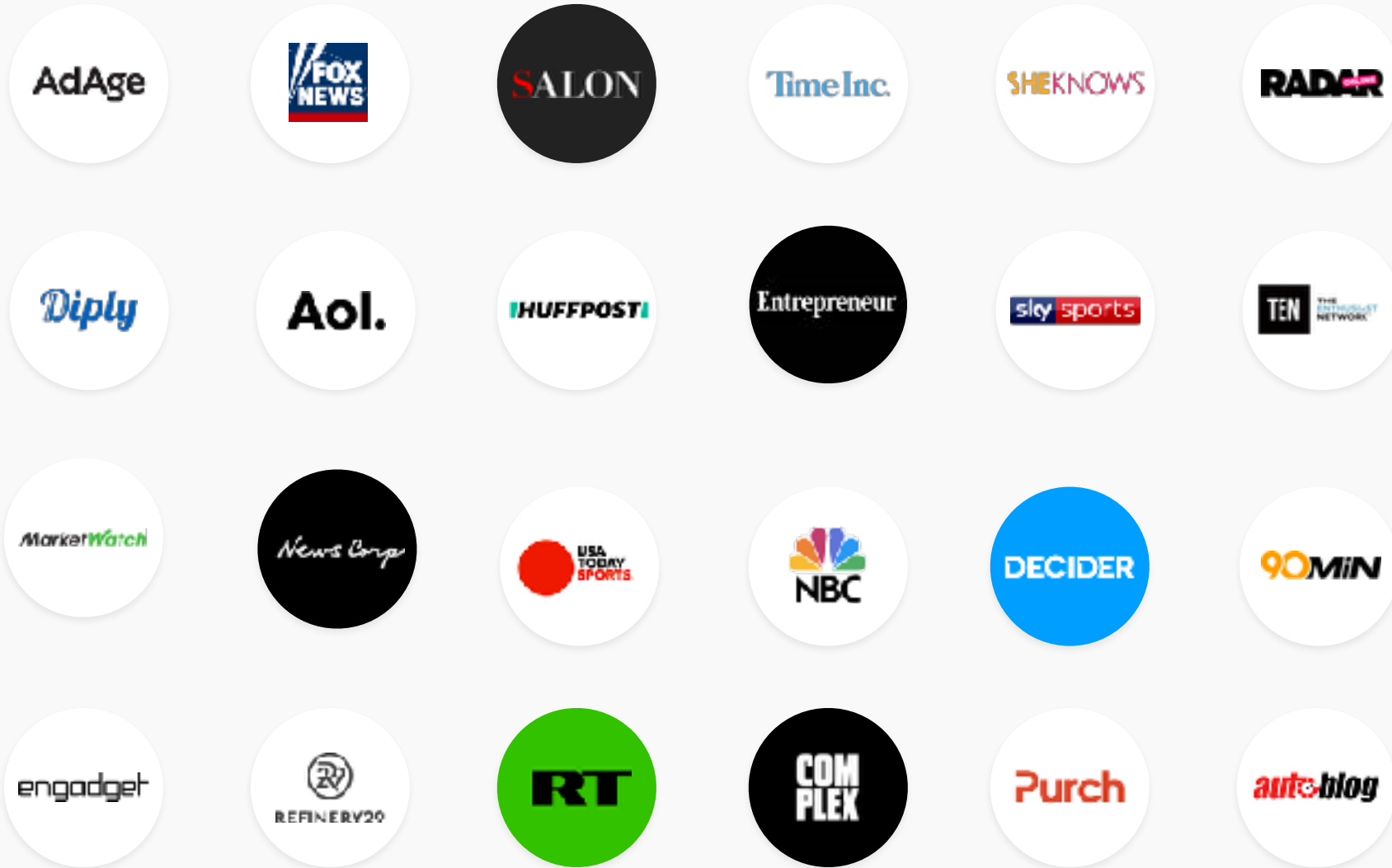
Because 100 redis databases isn't aren't enough

About Spot.IM

Spot.IM is a disruptive **social engagement platform** that brings together the online publishing industry and helps their digital media partners to curate their communities' social interactions directly, encouraging **organic site engagement** that enables over **3 billion monthly page views**.



350 Influential Partners with 3B PV/month



How many Redis databases have you got?

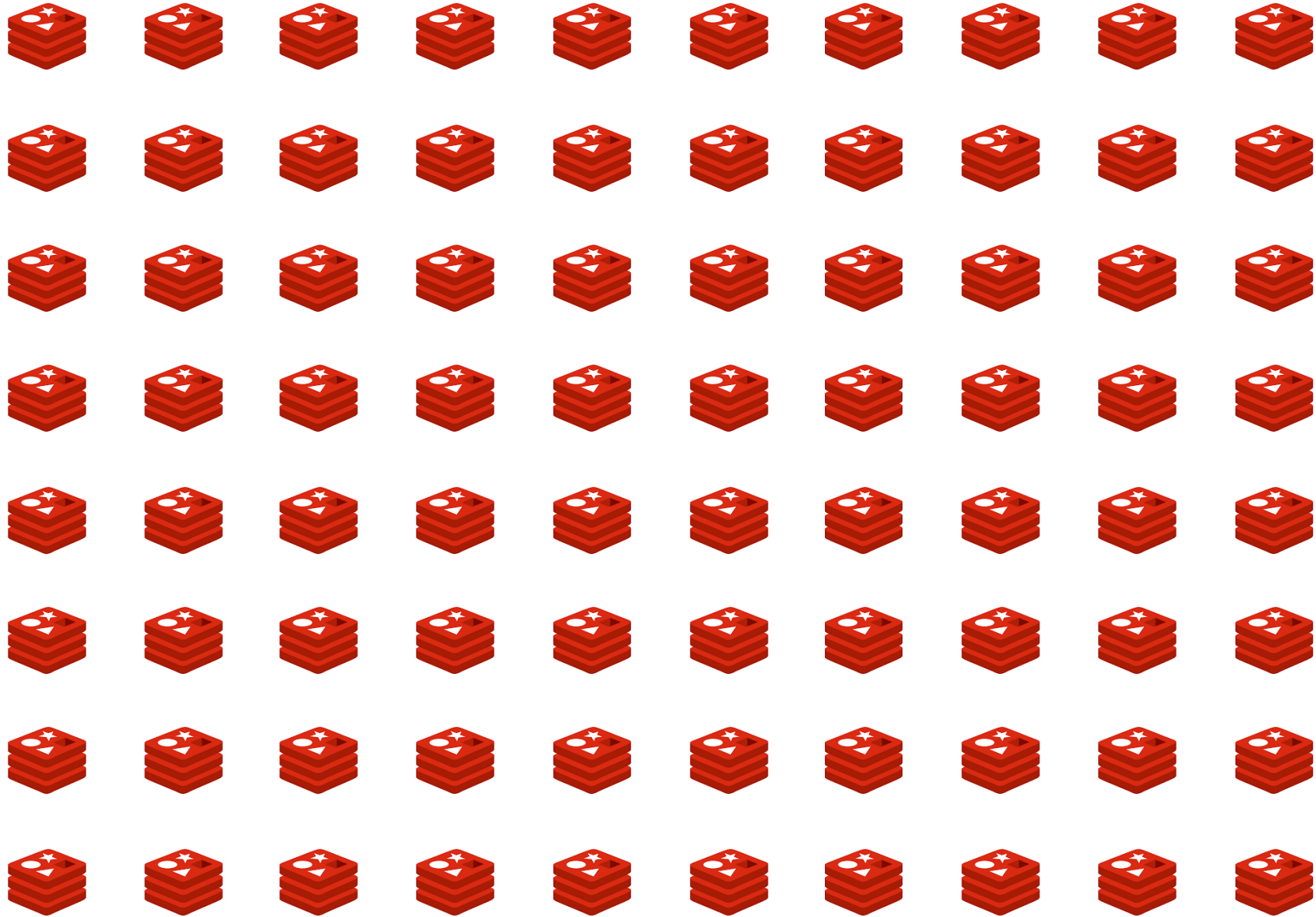


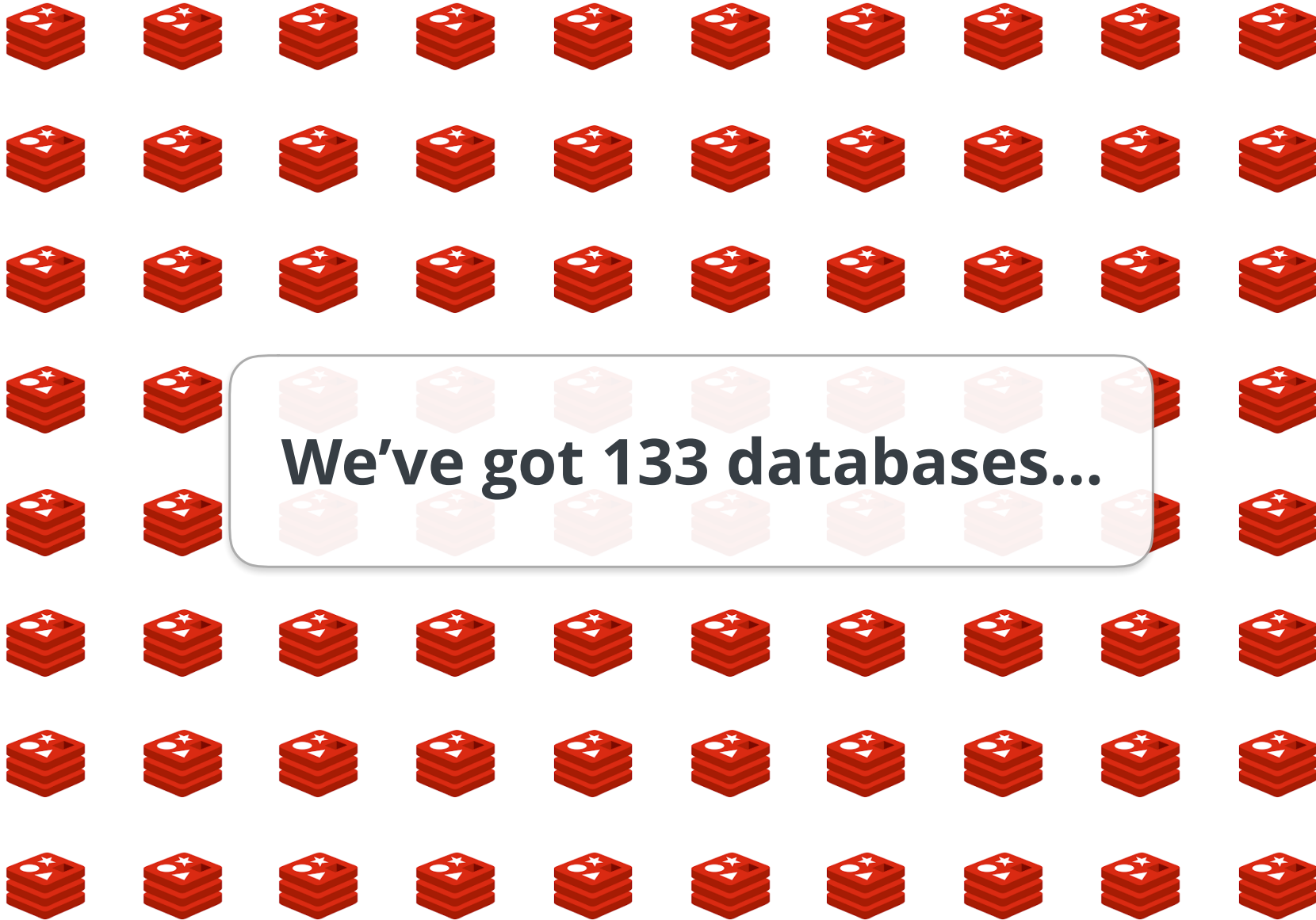
How many Redis databases have you got?



How many Redis databases have you got?







We've got 133 databases...



Alan Kay

“ A change of perspective
is worth 80 IQ points ”

The MultiRedis interface

```
~/m/n/redis_repository.rb [No Name] |
1 MultiRedis.configure("ma") do
+ 2   redis :RedisUser do
+ 3     allow :full_access, to: [ User, Username, UserEmail, UserEmailSettings ]
+ 4   end
+ 5
+ 6   redis :RedisAllRegisteredUsers do
+ 7     allow :full_access, to: AllRegisteredUsers
+ 8   end
+ 9
+ 10  redis :RedisSpotUserProfile do
+ 11    allow :full_access, to: SpotUserProfile, with_version: { staging: 1, production: 2 }
+ 12  end
+ 13
+ 14  redis :RedisSpotUserProfileConfiguration do
+ 15    allow :full_access, to: SpotUserProfileConfiguration
+ 16  end
+ 17
+ 18  redis :RedisUserNotificationsSettings do
+ 19    allow :full_access, to: UserEmailNotificationsSettings
+ 20  end
+ 21
```

The MultiRedis interface

```
~/m/n/redis_repository.rb [No Name] |
1 MultiRedis.configure("me") do
+ 2   redis :RedisUser do
+ 3     allow :full_access, to: [ User, Username, UserEmail, UserEmailSettings ]
+ 4   end
+ 5
+ 6   redis :RedisAllRegisteredUsers do
+ 7     allow :full_access, to: AllRegisteredUsers
+ 8   end
+ 9
+ 10  redis :RedisSpotUserProfile do
+ 11    allow :full_access, to: SpotUserProfile, with_version: { staging: 1, production: 2 }
+ 12  end
+ 13
+ 14  redis :RedisSpotUserProfileConfiguration do
+ 15    allow :full_access, to: SpotUserProfileConfiguration
+ 16  end
+ 17
+ 18  redis :RedisUserNotificationsSettings do
+ 19    allow :full_access, to: UserEmailNotificationsSettings
+ 20  end
+ 21
```

Mapping a Redis database

```
ruby lib/multi-redis-cli/cli.rb create-redis-db --env=staging.  
--redis-name=RedisUser --access=full_access --location=us-east-1  
--version=1 --url=redis://XXX --db_name=XXX --key-name=XXX
```

Mapping a “Class” to Redis

```
ruby lib/multi-redis-cli/cli.rb create-redis-consumer --redis-consumer=User --redis-name=RedisUser
```

Validations (typos...)

```
ruby lib/multi-redis-cli/cli.rb create-redis-consumer --redis-consumer=User --redis-name=RedisUser
```

Validations (typos...)

```
ruby lib/multi-redis-cli/cli.rb create-redis-consumer --redis-consumer=User --redis-name=RedisUser
```

```
[ERROR] Class User is already mapped (to 'RedisUser')
```



```
1/m/r/redis_repository.rb [No Name] |
1 MultiRedis.configure("me") do
+ 2   redis :RedisUser do
+ 3     allow :full_access, to: [ User, Username, userEmail, userEmailSettings ]
+ 4   end
+ 5
+ 6   redis :RedisAllRegisteredUsers do
+ 7     allow :full_access, to: AllRegisteredUsers
+ 8   end
+ 9
+ 10  redis :RedisSpotUserProfile do
+ 11    allow :full_access, to: SpotUserProfile, with_version: { staging: 1, production: 2 }
+ 12  end
+ 13
+ 14  redis :RedisSpotUserProfileConfiguration do
+ 15    allow :full_access, to: SpotUserProfileConfiguration
+ 16  end
+ 17
+ 18  redis :RedisUserNotificationsSettings do
+ 19    allow :full_access, to: userEmailNotificationsSettings
+ 20  end
+ 21
```

1/m/r/redis_repository.rb

```
1 MultiRedis.configure("me") do
+ 2   redis :RedisUser do
+ 3     allow :full_access, to: [ Username, userEmail, userEmailSettings ]
+ 4   end
+ 5
+ 6   redis :RedisAllRegisteredUsers do
+ 7     allow :full_access, to: [ User, AllRegisteredUsers ]
+ 8   end
+ 9
+ 10  end
+ 11
+ 12  end
+ 13
+ 14  redis :RedisSpotUserProfileConfiguration do
+ 15    allow :full_access, to: SpotUserProfileConfiguration
+ 16  end
+ 17
+ 18  redis :RedisUserNotificationsSettings do
+ 19    allow :full_access, to: userEmailNotificationsSettings
+ 20  end
+ 21
+ 22  end
```

```
1. yaronwittenstein@Merave-MacBook-Pro: ~/spotim/rails (zsh)
5 RACK_ENV=production SPOTIM_MULTI_REDIS_FAST_BOOTSTRAP=true ruby repo-pry.rb
/Users/yaronwittenstein/.rvm/gems/ruby-2.3.10me/gems/multi-redis-0.31.15/lib/multi-redis/verification/redis_consumer_redis_name_verifier.rb:74:in `block in validate_code_mappings!': Redis-name mismatch for 'User' (code: 'RedisAllRegisteredUsers', db: 'RedisUser') (MultiRedisConfigurationError)
    from /Users/yaronwittenstein/.rvm/gems/ruby-2.3.10me/gems/multi-redis-0.31.15/lib/multi-redis/verification/redis_consumer_redis_name_verifier.rb:66:in `each'
```

m/r/redis_repository.rb

```
1 MultiRedis.configure("me") do
2   redis :RedisUser do
3     allow :full_access, to: [ User, UserImages, Username, userEmail, userEmailSettings ]
4   end
5
6   redis :RedisAllRegisteredUsers do
7     allow :full_access, to: AllRegisteredUsers
8   end
end
```

```
1. yaronwittenstein@Meravs-MacBook-Pro: ~/spot.im/me (zsh)
$ RACK_ENV=production SPOTIM_MULTI_REDIS_FAST_BOOTSTRAP=true ruby repo-pry.rb
/Users/yaronwittenstein/.rvm/gems/ruby-2.3.1@me/gems/multi-redis-0.31.15/lib/multi-redis/verification/redis_consumer_redis_name_verifier.rb:69:in `block in validate_code_mappings!': No mapping stored for 'UserImages' (store: #<Redis client v4.0.1 for red
```

Endpoints Migrations



1/m/r/redis_repository.rb [No Name] |

```
1 MultiRedis.configure("me") do
+ 2   redis :RedisUser do
+ 3     allow :full_access, to: [ User, Username, userEmail, userEmailSettings ]
+ 4   end
+ 5
+ 6   redis :RedisAllRegisteredUsers do
+ 7     allow :full_access, to: AllRegisteredUsers
+ 8   end
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+ 10  redis :RedisSpotUserProfile do
+ 11    allow :full_access, to: SpotUserProfile, with_version: { staging: 1, production: 2 }
+ 12  end
+ 13
+ 14  redis :RedisSpotUserProfileConfiguration do
+ 15    allow :full_access, to: SpotUserProfileConfiguration
+ 16  end
+ 17
+ 18  redis :RedisUserNotificationsSettings do
+ 19    allow :full_access, to: userEmailNotificationsSettings
+ 20  end
+ 21
```



— JOIN THE TEAM —

We are hiring!

If you are interested, please send us your CV to yahli@spot.im

