

Redis Day TLV 2017

WeAreTv Case Study

WeAreTv in a nutshell

- WeAreTv is a well funded startup based in New York and Tel Aviv.
- WeAreTv's Domain is Creating a new way of engagement between Tv shows and their audience in RealTime During the show.

Ops Point Of View

- Deploying Environments into Google Compute Engine
- Redis Cluster in Dev,Qa,Stage and Production Env
- Cluster in production is consisted of 3 masters and 6 slaves running on separate nodes
- DRP - using dumps not aof
- Cluster rebalancing and resharding is done by DevOps using redis-trib manually

WebSocket Session Data Caching Using Redis

- For each opened WS connection we save a hash in redis in the form of `ws:platform:user:<user_id>`
- Each hash contains the following data: User's unique Device Id and the timestamp of when the session was opened

Security and Session Authentication

- Web services security filters
- Web socket session authentication by social token
- Allowing users to have a ws session opened only from one device at a time

Vert.x and Storm Clusters Recovery

- We use redis to save current recovery data for Storm nodes and Vert.x nodes
- When a vert.x node is joining into the cluster it recovers the following data: Events buffer (per active show, shows states and broadcast times, allowed app versions for version control).
- Storm nodes recovery - supply bolts with relevant show and interactions state

Realtime Users Engagement Metrics

- Saving counters for users interactions combined with all user's attribute permutations, for example: Total number of users who answered '1' on interaction with a specific id and the age group is adults(18-30), males who live in Paris France.
- Saving users ranking scored by their answer time in order to create a leaders board.

Thanks You

nimrod.ticozner@gmail.com