

The logo for Peer5, featuring the word "PEER" in a bold, black, sans-serif font, followed by a stylized orange shield icon containing the number "5".

PEER5

The logo for RedisDay TLV 2018, with "redisday" in a white, lowercase, sans-serif font and "TLV 2018" in a smaller, green, uppercase, sans-serif font below it.

redisday
TLV 2018

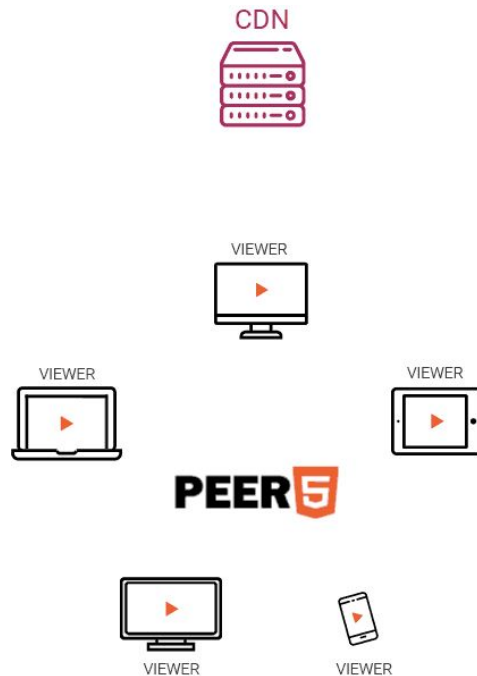
A background image of a red curtain being pulled back by a hand in a white glove, revealing a dark grey area on the left.

Scaling Redis PubSub

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Peer5 - In a nutshell

- World's largest peer-to-peer based content delivery network.
- Helps broadcasters scale their online videos.
- Does not use any servers for content delivery!
- Uses WebRTC technology for transferring data between users.
- Does not require the users to install any piece of software!



Agenda

- What is Redis PubSub? (And a small survey)
- Single Redis node - Architecture & Benchmarks
- PubSub in Redis Cluster - Architecture & Benchmarks
- Our custom solution - Goals, Architecture & Benchmarks
- Q & A

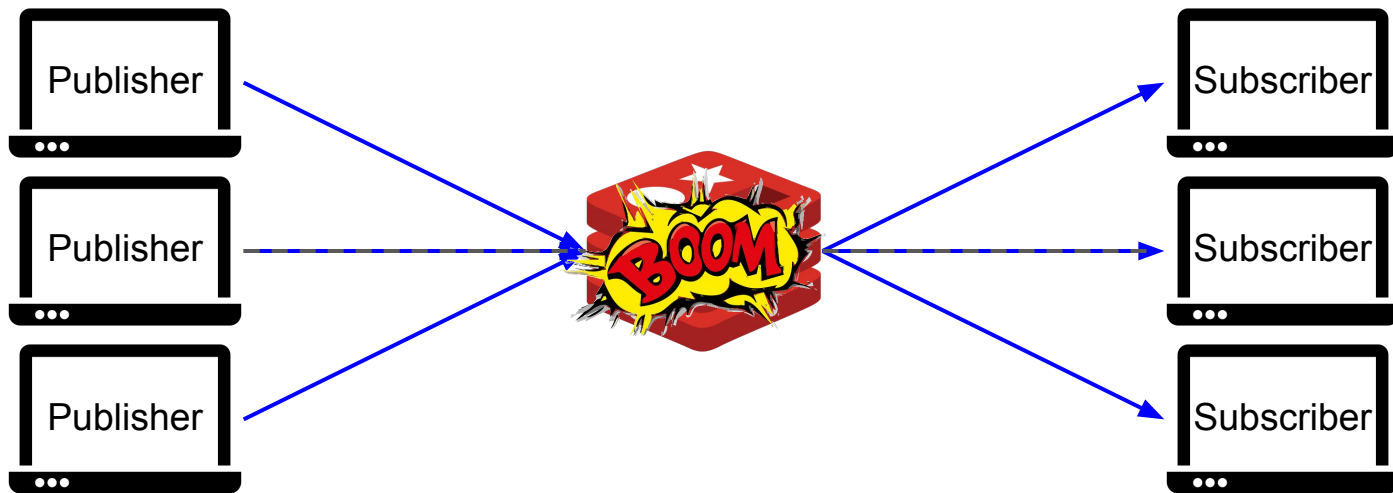
Redis PubSub

What is it?

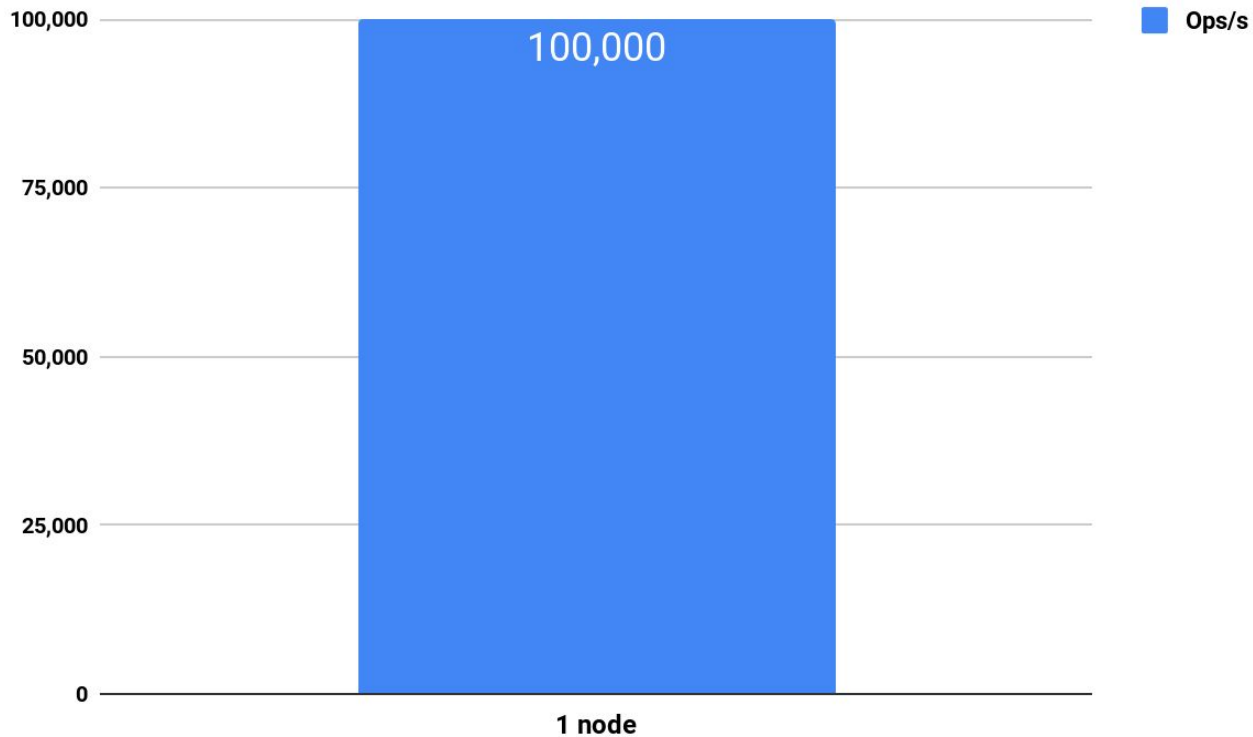
Single Node

Architecture & Benchmarks

Single Node - Architecture



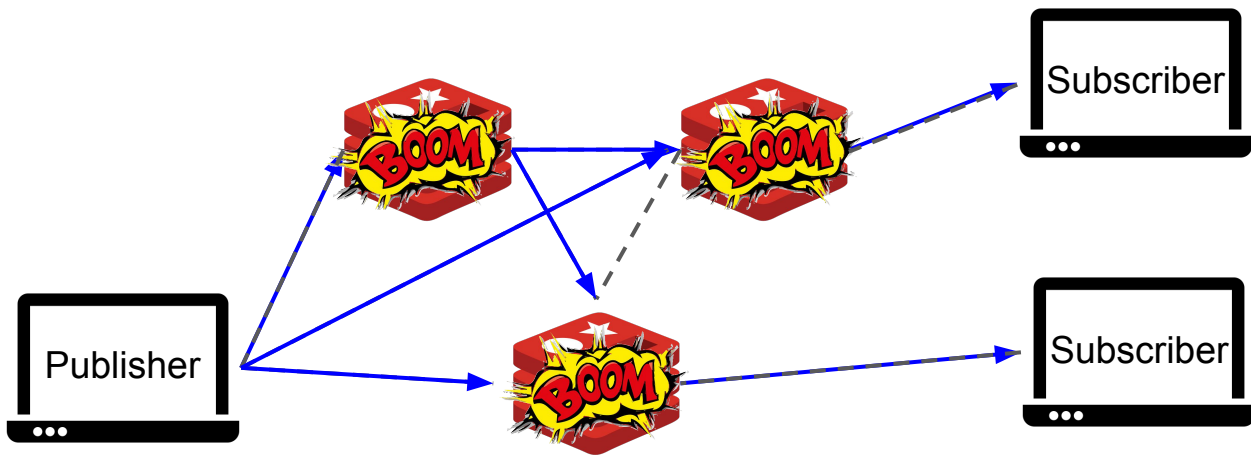
Single Node - Benchmarks



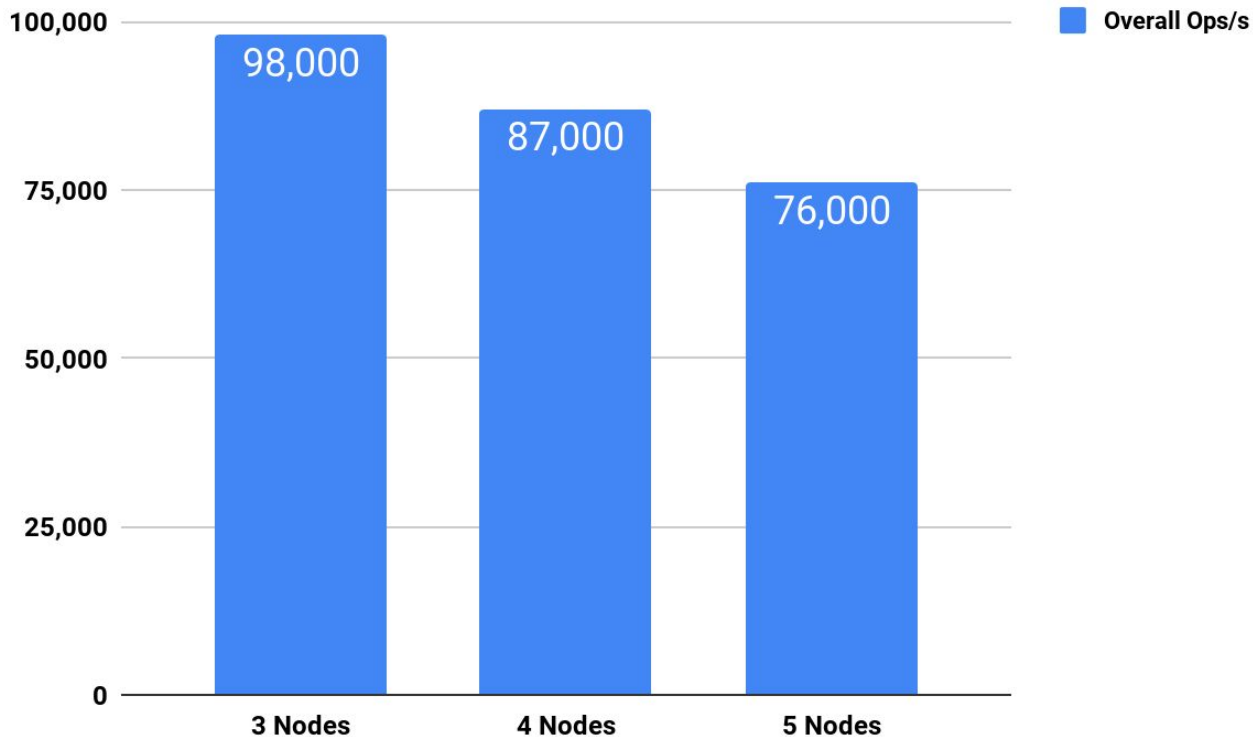
Redis Cluster

Redis Cluster is awesome overall, just not for PubSub

Redis Cluster - Architecture



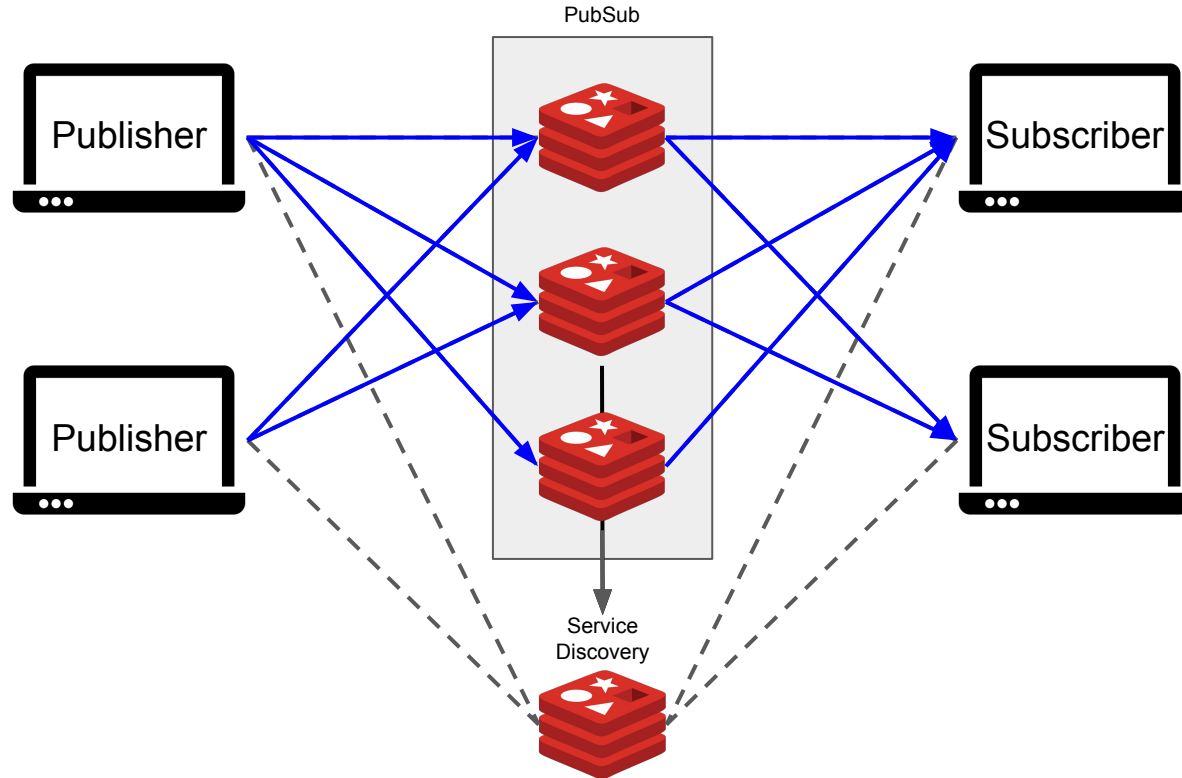
Redis Cluster - PubSub benchmarks



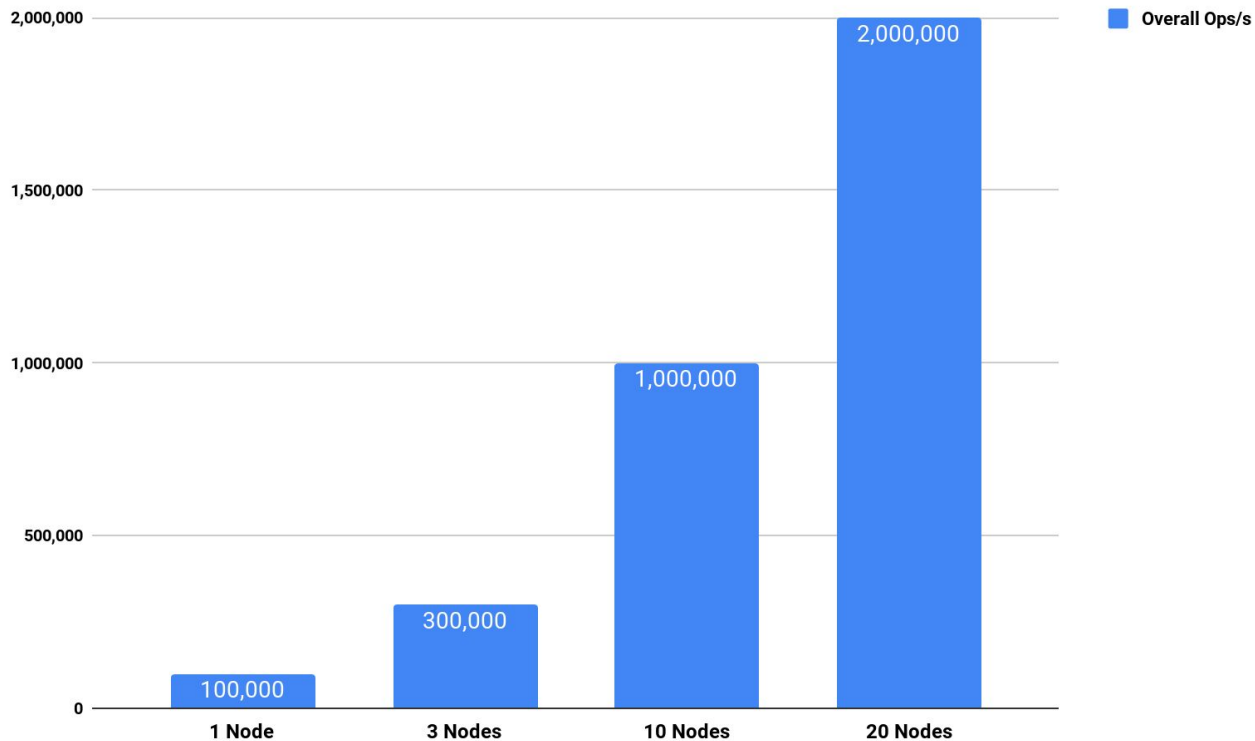
Custom Solution - Goals

- Support an ever increasing number of messages/s, and from an ever increasing number of clients.
- Be able to scale the number of servers up & down automatically.
- Support all of Redis PubSub features (Multiple subscribers, patterns, etc).

Custom Solution - Architecture



Custom Solution - Benchmarks



We're hiring!

If you like video streaming
and making the world a
better place, let me know.

shahar@peer5.com



Thank You!

redisday
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