

How to reduce hosting costs for **Redis** based applications using **Redisson PRO**

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Founder of

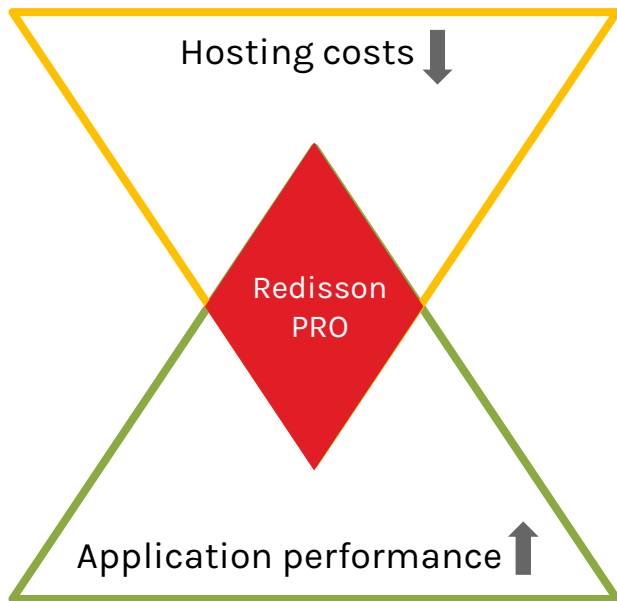


redisson

PERFORMANCE OR MONEY?

- ▶ Developers want performance, BOSS wants to save money
- ▶ It's a big challenge to find out optimal combination of both of them

THIS IS WHERE **REDISSON PRO** COMES INTO PLAY



REDISSON PRO ADVANTAGES:

- ▶ Increase throughput up to **4X**
- ▶ Decrease execution time up to **3X**
- ▶ Reduce hosting costs up to **8X**
- ▶ Utilizes available application resources in a much more efficient way
- ▶ Uses less hardware resources

REDISSON PRO

LOCAL CACHE ADVANTAGES:

- ▶ Up to **45X** faster read operations execution for **Spring Cache**
- ▶ Up to **5X** faster read operations execution for **Hibernate Cache**
- ▶ Up to **45X** faster read operations execution for **Map with expiring entries**

REDISSON PRO

DATA PARTITIONING ADVANTAGES:

- ▶ Available for individual **Set**, **Map**, **Spring Cache** and **Hibernate Cache** object in cluster
- ▶ **Scales** available memory
- ▶ **Scales** read/write operations
- ▶ **Scales** entry eviction process

REDISSON PRO ADVANTAGES:

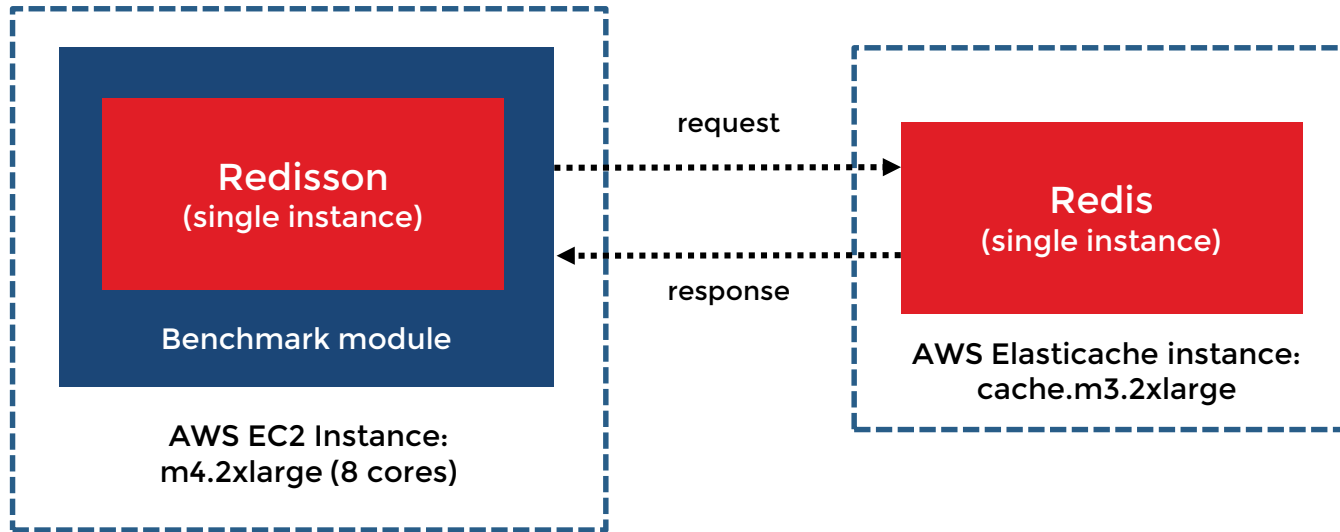
- ▶ Guarantees access order to get **uniformly distributed consumption** for Queue or Deque object
- ▶ Exposes **performance metrics** through **JMX** and **Dropwizard** metrics
- ▶ **Tomcat Single Session** handling for applications based on multiple WARs

REDISSON PRO

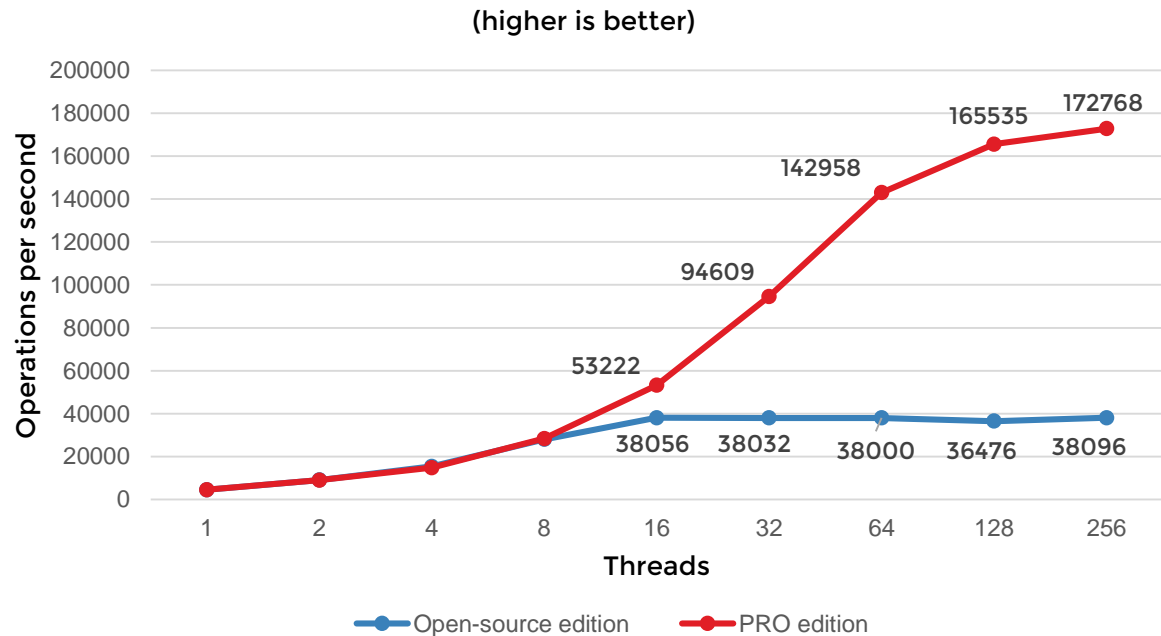
SUPPORT ADVANTAGES:

- ▶ **24x7** technical support with **SLA**
- ▶ Availability of **intermediate releases** with hot fixes

BENCHMARK ENVIRONMENT:

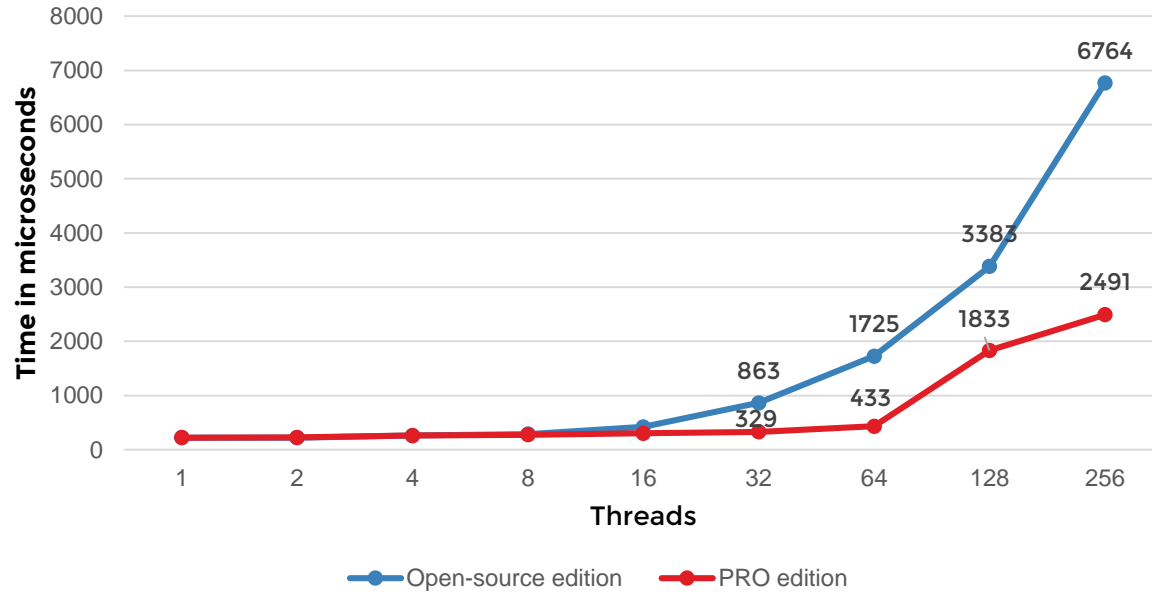


OVERALL THROUGHPUT



OVERALL EXECUTION TIME

(lower is better)



WHY IS **REDISSON PRO** SO FAST?

- ▶ The open source version is not been artificially slowed, as the source code clearly demonstrated
- ▶ PRO version utilises a high performance processing engine specially engineered to deliver a remarkable result that is unavailable to other Redis Clients

HOW TO REACH THE SAME USING REDISSON OPEN-SOURCE EDITION?

- ▶ Increase **Redis nodes** amount
- ▶ Increase **Application nodes** amount

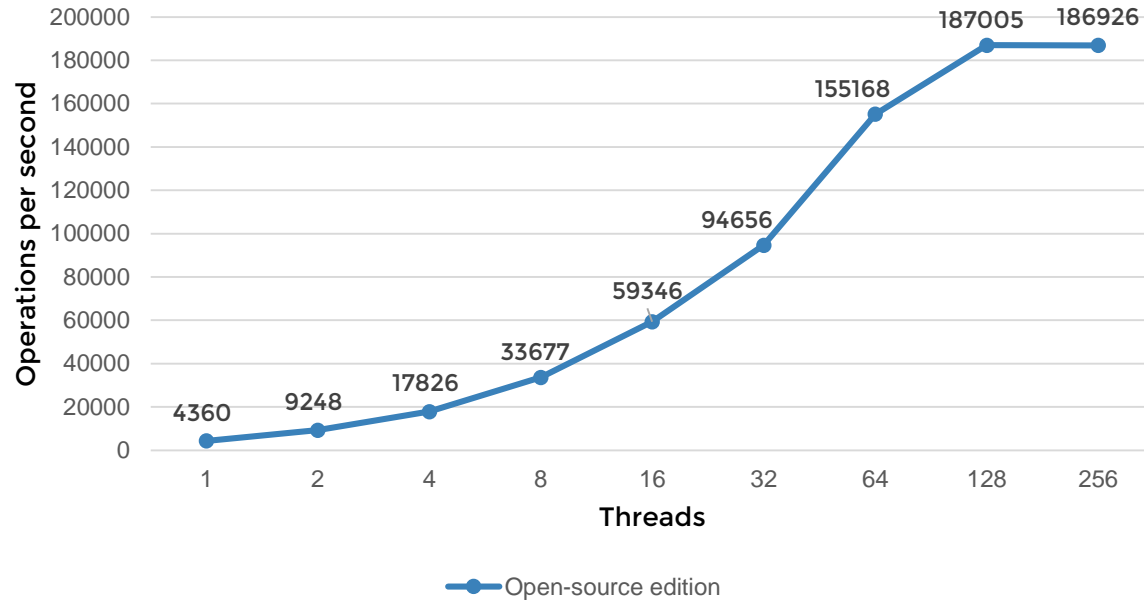
INCREASING **REDIS NODES** AMOUNT

- ▶ It required to use **8 AWS ElastiCache** nodes instead of single node
- ▶ cache.m3.2xlarge node costs **\$619,04** per month or **\$7428,48** per year
- ▶ With **8 AWS ElastiCache** hosting costs increased by **\$4 333,28** per month or **\$51999,36** per year

OVERALL THROUGHPUT

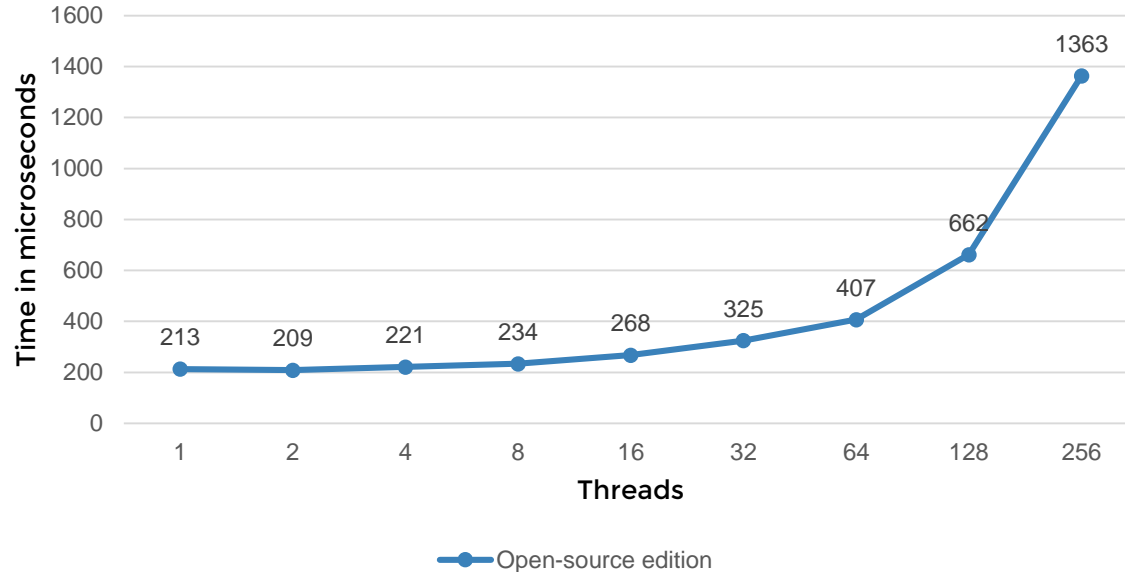
REDISSON OPEN-SOURCE EDITION

(using 8 AWS Redis nodes)



OVERALL **EXECUTION TIME** REDISSON OPEN-SOURCE EDITION

(using 8 AWS Redis nodes)

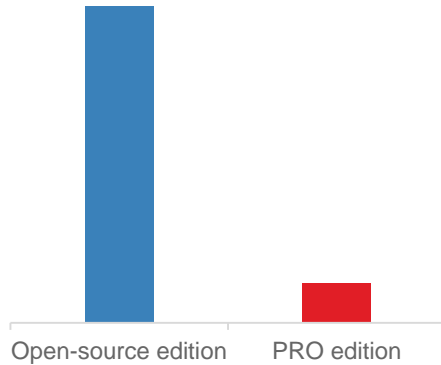


WITH REDISSON PRO YOUR EXPENSES WON'T INCREASE

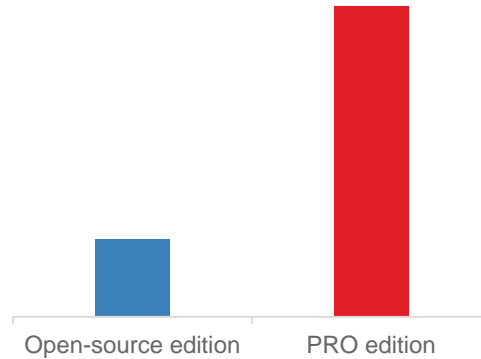
| AWS Elasticscache node type | Reduced hosting costs per month | Reduced hosting costs per year | Reduced nodes amount |
|-----------------------------|---------------------------------|--------------------------------|----------------------|
| cache.m3.medium | \$526,33 | \$6315,96 | 7 |
| cache.m3.large | \$1103,76 | \$13245,12 | 7 |
| cache.m3.xlarge | \$2207,52 | \$26490,24 | 7 |
| cache.m3.2xlarge | \$4333,28 | \$51999,36 | 7 |
| cache.m4.large | \$950,46 | \$11405,52 | 7 |
| cache.m4.xlarge | \$1895,81 | \$22749,72 | 7 |
| cache.m4.2xlarge | \$3786,51 | \$45438,12 | 7 |

SUMMARY

REDUCES HOSTING
COSTS UP TO **8X**
TIMES



UP TO **4X** FASTER



TENS OF THOUSAND SAVED FROM YOUR OPERATIONAL
COST WITH REDISSON PRO

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THANK YOU!

<http://redisson.pro>