

Ты кто такой?

- @jbaruch это я
- @real_jbaruch это не я, но тоже ОК
- Developer Advocate @ JFrog
- Artifactory, Bintray, лягушки, вот это всё



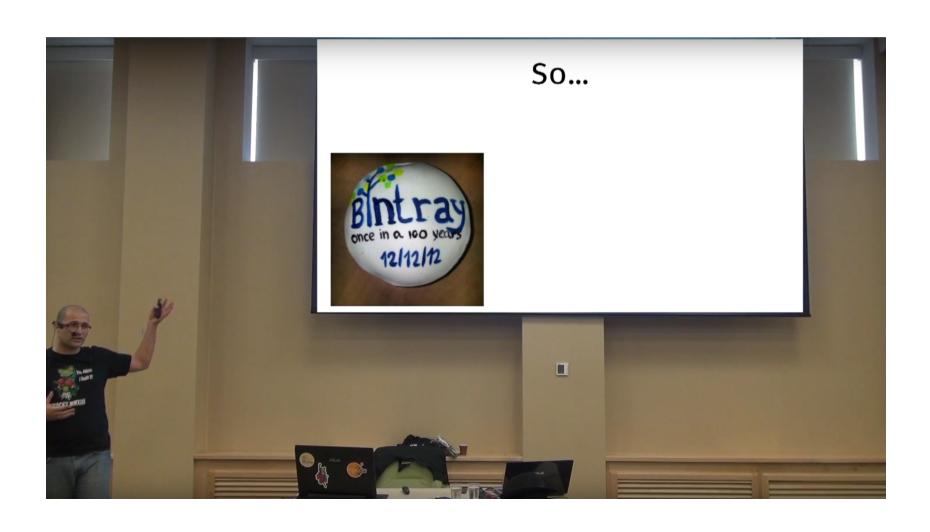


DISTRIBUTION MADE EASY!

Your package hosting and download center infrastructure for automated software distribution (Serving 346,786 packages in 154,567 repositories)

МИЛЛИАРД ЗАПРОСОВ В МЕСЯЦ.

30 Августа 2013 г.





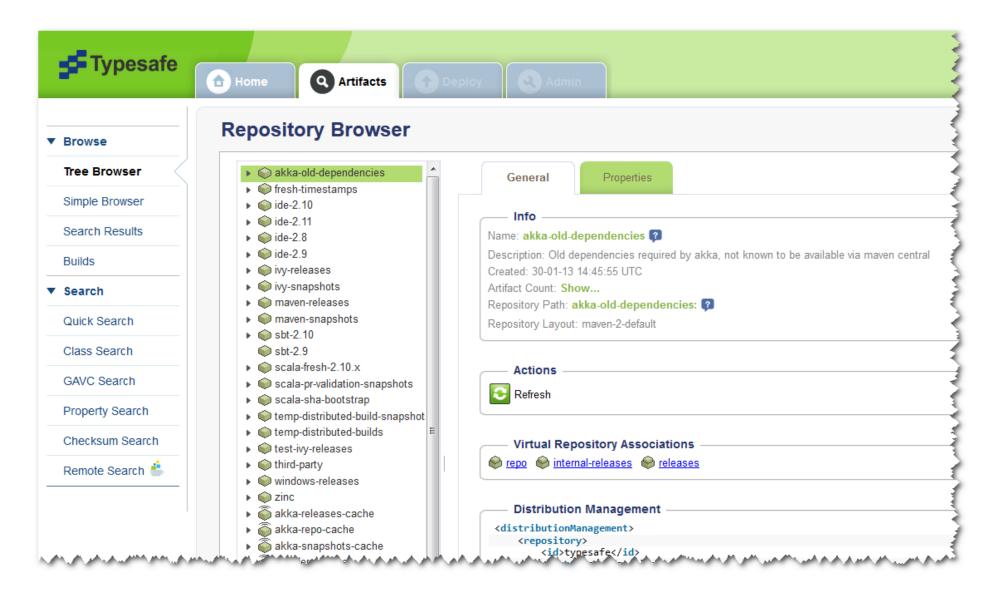
Раздача файлов

- Раздача файлов
- -Веб морда

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- -Веб морда
- -REST API

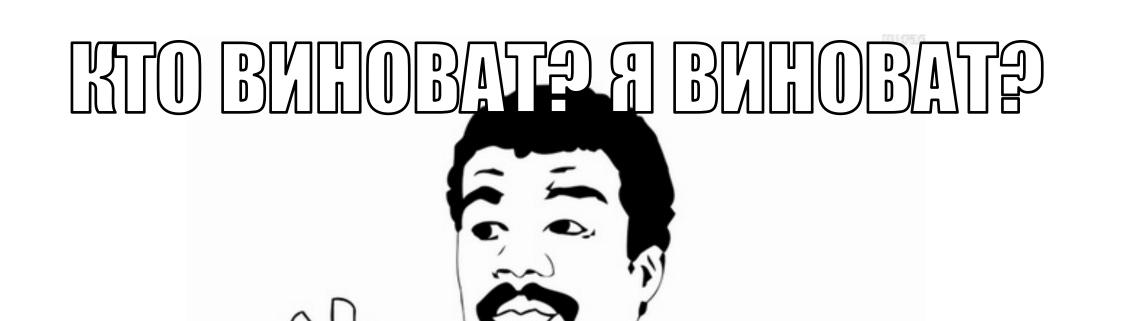
- -Раздача файлов
- -Веб морда
- -REST API
- -Всякие сервисы

ЗНАЕМ МЫ ЭТИХ ПРОГРАММИСТОВ



КРИКЛИВЫЕ АДЕПТЫ ОЧЕРЕДНОГО \$ { LANG }





STO KOUKA OPOBOZA OEPETPUSJA!

Раздача файлов должна...



Веб морда должна...



Всякие сервисы должны...



сервис

RPS доступность

сервис

Download

10К Кровь из носа

сервис

Download

Interaction

RPS

доступностъ

10K

Кровь из носа

100

Практически всегда

сервис

Download

Interaction

Services

RPS

доступностъ

10K

Кровь из носа

100

Практически всегда

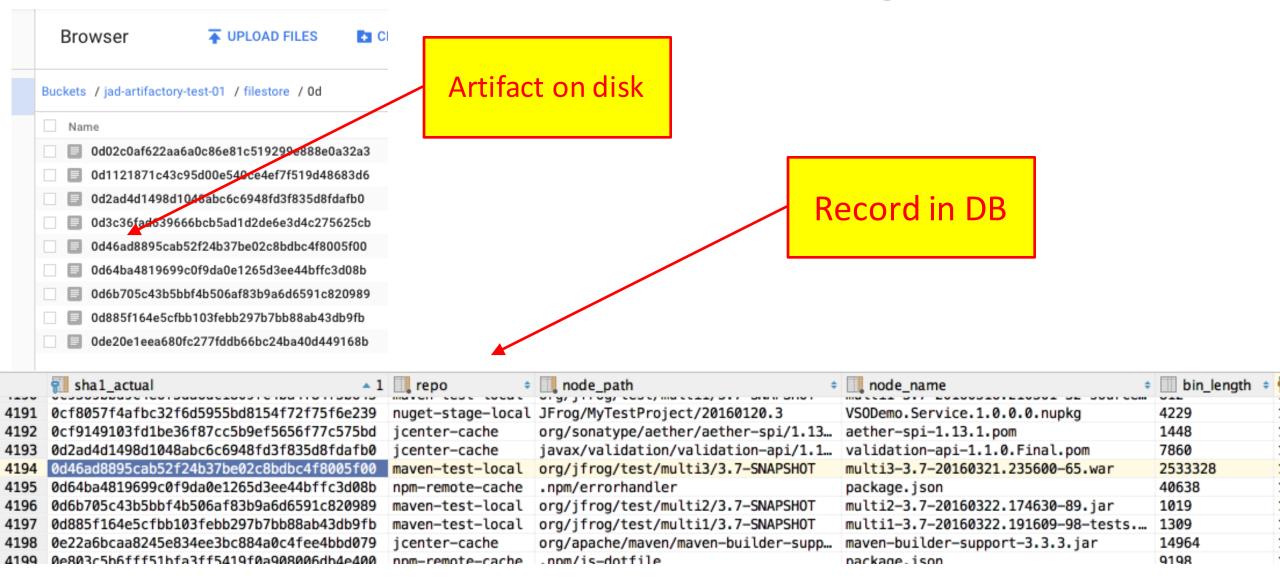
1

Должно работать

Простой и умный

DOWNLOAD SERVER

Metadata-rich Storage



Проще некуда (На самом деле есть)





Object Storage







Гибкий и мощный

WEB APPLICATION







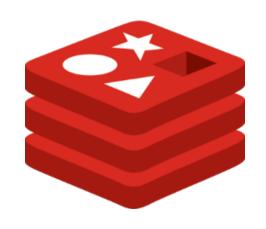
elastic







Асинхронные сервисы: Например, обсчет индексов



Очереди + состояние

What is the best mongodb hosting?

What is the best hosting solution for mongodb?





Follow 70 Comment Share Downvote

. . .

13 Answers

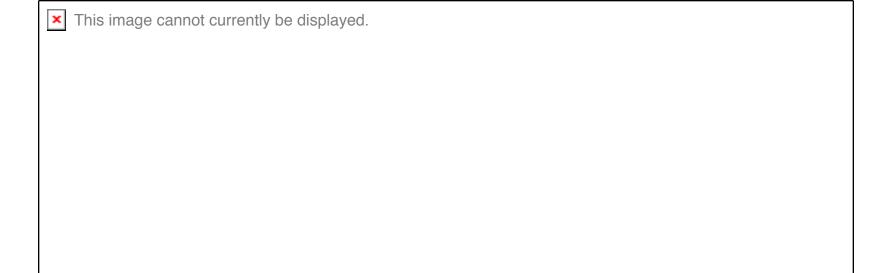


Gaëtan Voyer-Perrault, Software Engineer, DB & Node.JS enthusiast

16.7k Views • Gaëtan is a Most Viewed Writer in MongoDB with 270+ answers.

For most people there are basically three major players:

- 1. MongoLab
- 2. MongoHQ
- ObjectRocket



3 Answers active oldest votes



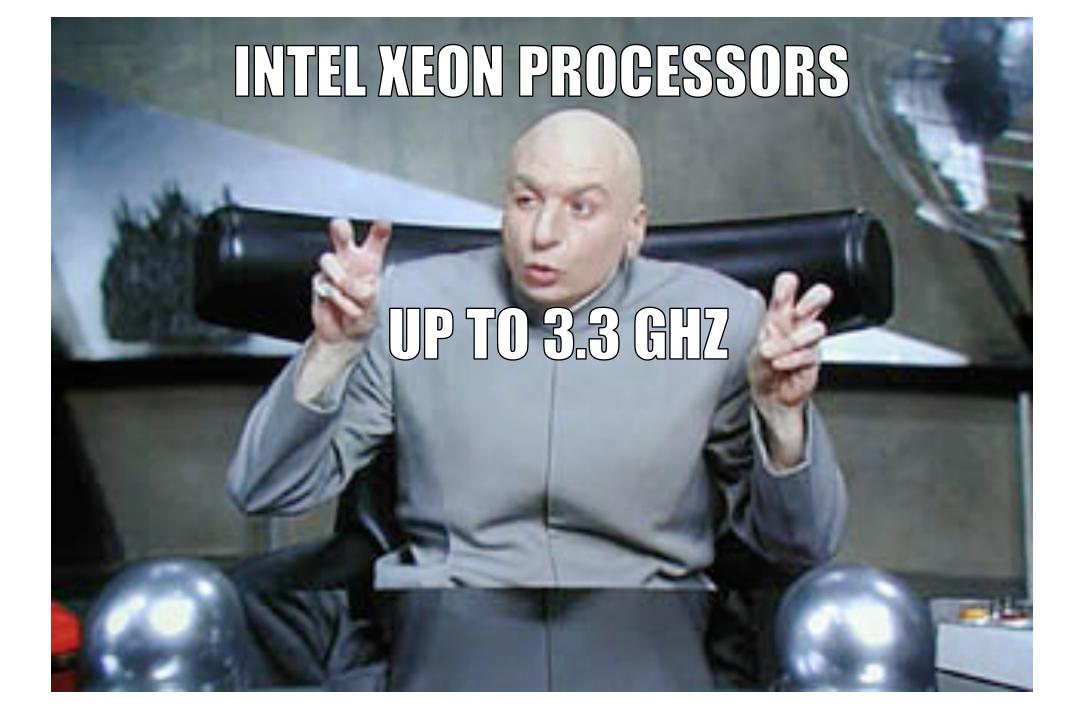
9

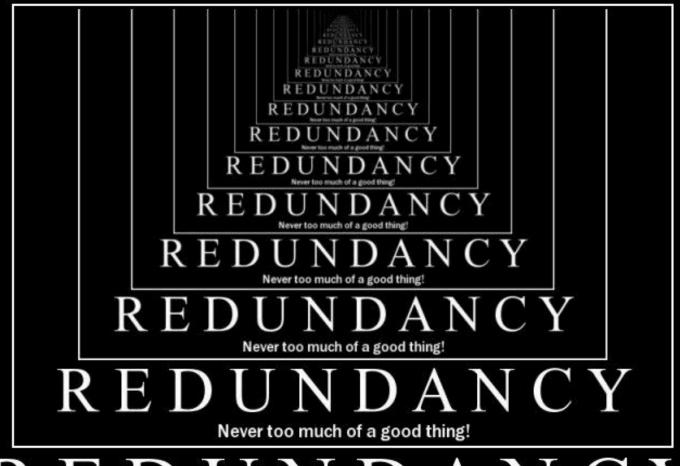


I found that there isn't simple and absolute answer for questions like yours. Each virtualization solution behaves differently on specific performance tests. Also, tests like disk I/O throughput can be split in many different tests (read, write, rewrite, ...) and the results will vary from solution to solution, and from scenario to scenario. This is why it is not trivial to point one solution as being the fastest for disk I/O, and this is why there is no absolute answer for labels like overhead for disk I/O.

VM layer overhead, Linux guest:

- CPU and Memory: 14.36%
- Network I/O: 24.46%
- Disk I/O: 8.84%
- Disk latency for reading: 2.41 times slower
- Micro-operations execution time: 10.84 times slower





REDUNDANCY

Never too much of a good thing!

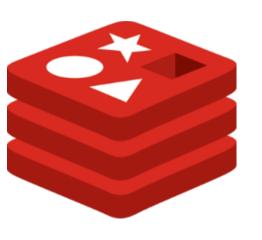
REMEMBER?







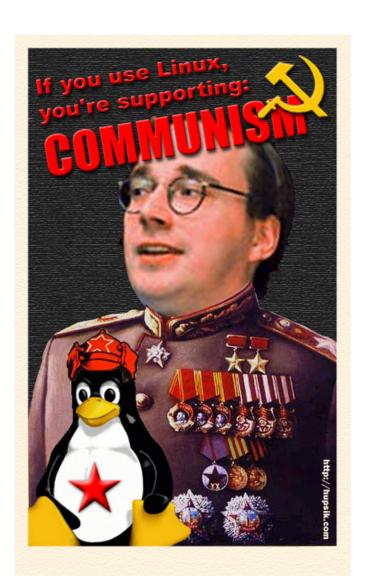
elastic

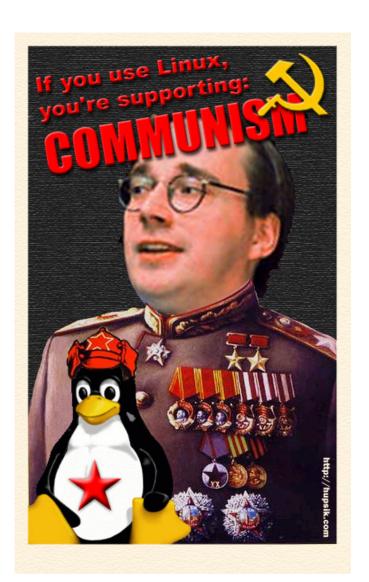






DEVOPS

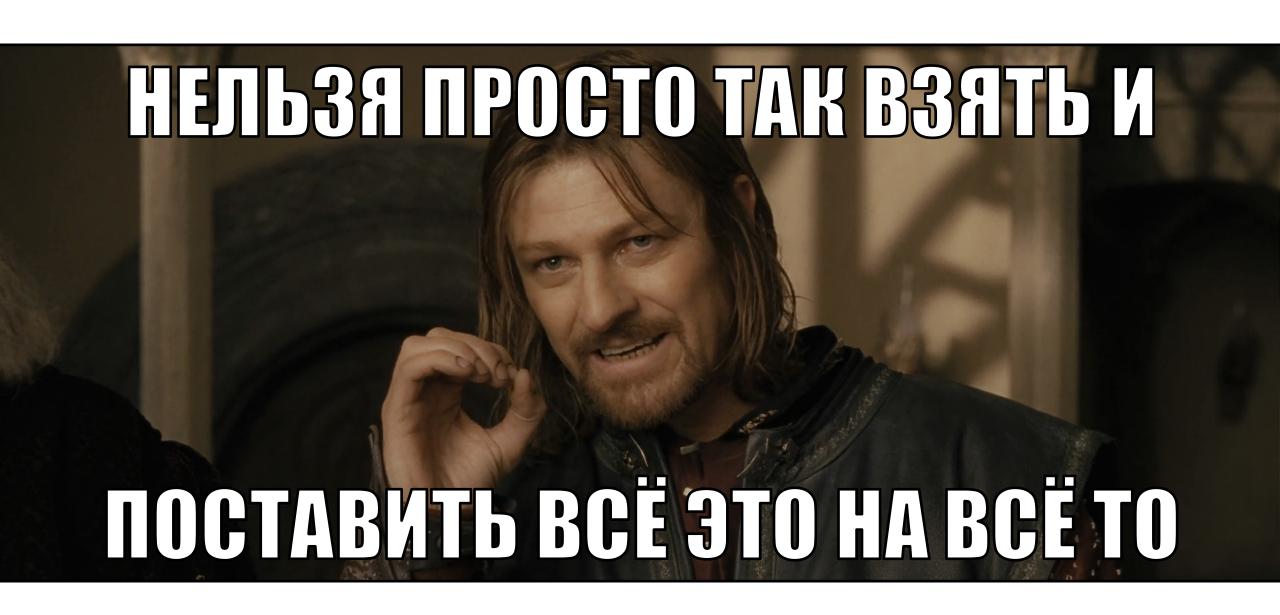








D000009,0X8016A9S0,0X00000001,0X000000065) HANDLED*** Address 6016a950 has been at 80100000 .6.2 irql:if Sysver Gxf0000565 Dil Bage DateStmp - Name ntoskrni, exe 80010000 33247188 atapi,sys 80007000 3324804 Disk.sys 801db000 336018 Ntis.sys 80237000 344eeb4 NTice.sys f1f48000 31ec6c8d loppy. S' 12280000 31ec609 drom. SYS ull.SYS £2290000 fe0c2000 fdca2000 fdc35000 f1f68000 12008000 £de1400



DevEnv and Deploy







DevEnv and Deploy

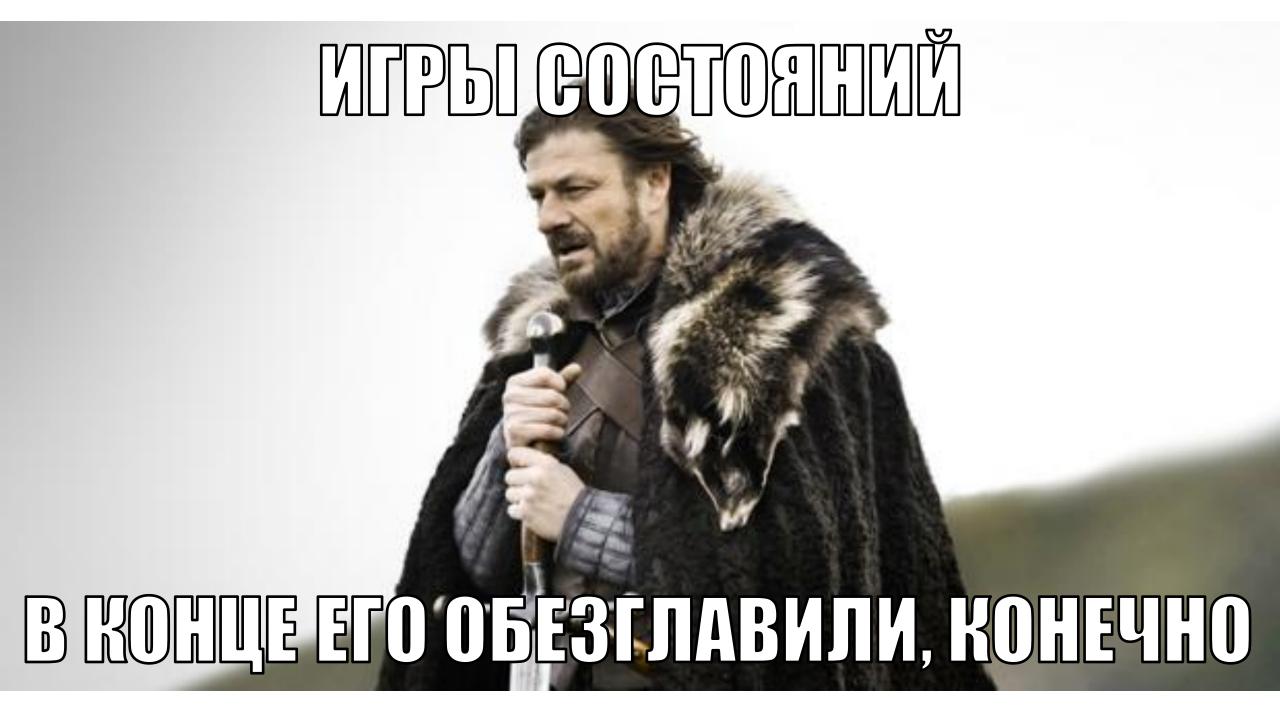
Jfokus

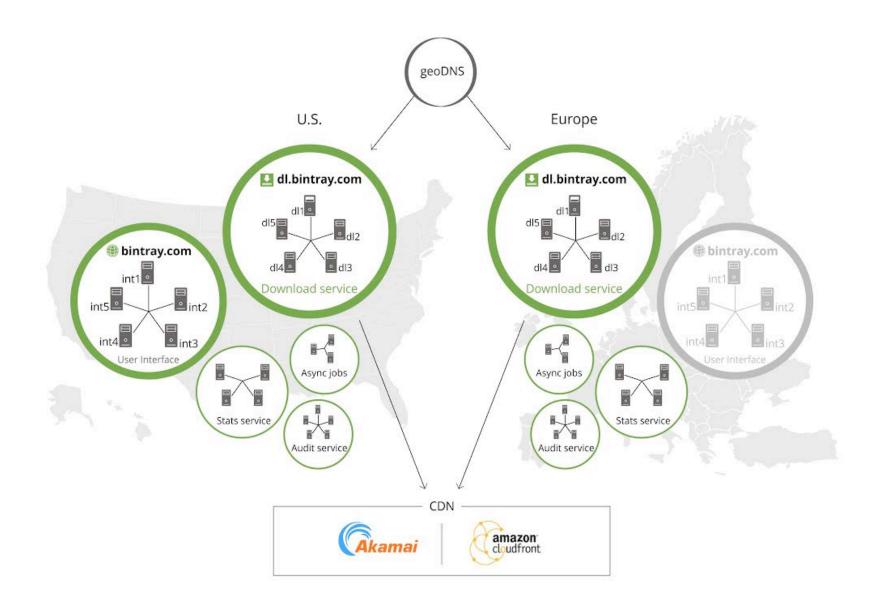
SPEAKERS TALKS SCHEDULE VIDEO

3-5 February 2014

Presentation: Developing for multi-component environment while keeping your sanity Baruch Sadogursky, JFrog Ltd.

Managing a modern multi-component application in a continuous integration/deployment environment can be very tricky. In this session we will concentrate on two of the aspects - environment setup, showcasing tools like Vagrant, Chef and Puppet for creating and controlling development, testing, staging, production and other environments and pushing the deliverables through those environments, using tools like Gradle, Jenkins and Artifactory. Join us and get all the little tips and tricks that will help you rule your development world.





– Определяйте критичность

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- полюбите изменения

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- готовьтесь к росту, но будьте реалистами

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- полюбите изменения
- готовьтесь к росту, но будьте реалистами
- Redundancy не избыточна!

December 2015

Degraded performance when downloading from Europe

Issue has been resolved. Downloads from Europe are back to normal speed.

Dec 22, 12:30-13:41 UTC

File Download

Intermittent download outage due to connectivity issues with the main object storage service. Our fallback was not auto... $Dec 7, 11:40 \ UTC$

November 2015

Degraded Download Performance

This incident has been resolved.

Nov 16, 10:20-12:11 UTC

October 2015

No incidents reported for this month.

September 2015

REST and UI timeouts due to unexpected request bursts

This incident has been resolved.

Sep 1, 20:55 UTC

March 2016

UI and API is currently having some issues we are investigating the issue

Issue was fixed, both UI and rest API are back to normal.

Mar 20, 11:42-12:11 UTC

Partial outage of UI and API

This incident has been resolved.

Mar 2, 14:10-14:15 UTC

February 2016

Stuck log rotation. Some logs may be suspended.

Log rotation recovery completed successfully.

Feb 28, 23:05 - Feb 29, 17:54 UTC

Experiencing database indexing slowdown

We have identified and resolved the issue.

Feb 18, 09:30-10:05 UTC

Publishing is temporarily paused due a connectivity issues in one of our backend networks

Network issue was resolved. Publishing process back to normal.

Feb 3, 05:15-07:53 UTC

UI Upgrade

UI was temporarily down due to stuck version upgrade.

Feb 1, 15:46 UTC

January 2016

No incidents reported for this month.

August 2015

Slowr EU download initialization

This incident has been resolved.

Aug 21, 16:07 - Aug 22, 17:04 UTC

Degraded Download Performance

This incident has been resolved.

Aug 19, 17:18-18:10 UTC

Downloads initialization slowdown

Continued cluster maintenance inorder to improve the preformance

Aug 13, 05:11-18:10 UTC

Downloads initialization slowdown

Downloads and directory listing from the certain US regions were slow to start due to issues with the backend database ...

Aug 12, 14:21 UTC

July 2015

No incidents reported for this month.

June 2015

Payment gateway issues

This incident has been resolved.

Jun 29, 09:32-14:36 UTC

Uploads are slower than usual

This incident has been resolved.

Jun 11, 23:43 - Jun 12, 00:06 UTC

Uploads temporarily disabled

This incident has been resolved.

Jun 7, 09:07-10:24 UTC

#RAZBORPOLETOV

Доступность Шредингера

- Dear support, it looks like the service is down.

Thanks, JFrog DevOps.

- Dear JFrog DevOps, the service is just fine.

Thanks, Service as a Service support.

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13 Answers



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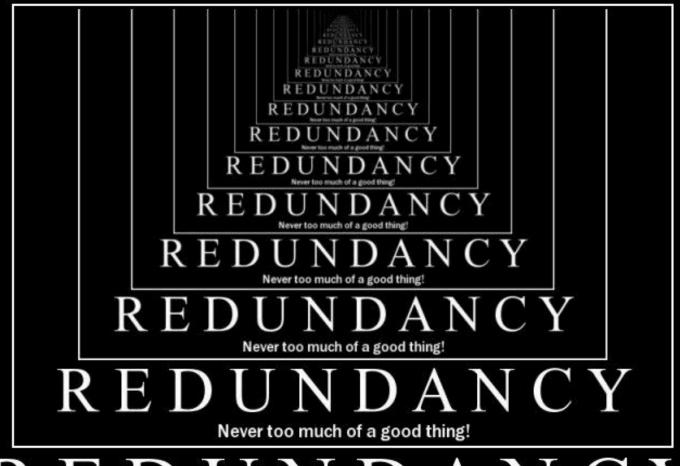
16.7k Views • Gaëtan is a Most Viewed Writer in MongoDB with 270+ answers.

The best hosting is a bunch of computers you own, in two different data centers, supported by a certified MongoDB & Linux expert who knows everything about your system:)

For most people there are basically three major players:

- MongoLab
- 2. MongoHQ
- ObjectRocket





REDUNDANCY

Never too much of a good thing!

tal Countries

Total Servers

Total Domains Active

Global NOCCs

128,673

130,287

4

Lifetime Statistics

21,371.24 Gbps

Bits Delivered

- Redundancy

- Redundancy
- Скорость

- Redundancy
- Скорость
- редирект







fastly



fastly





fastly









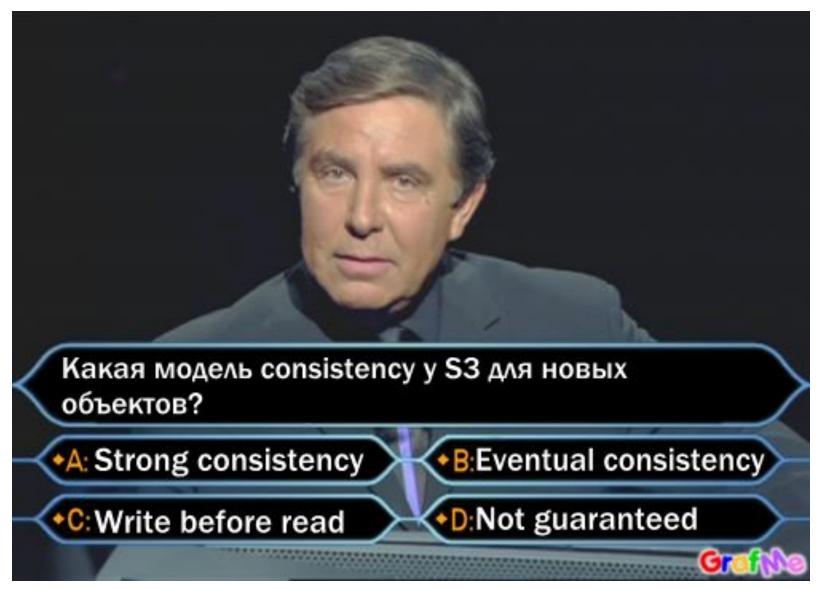




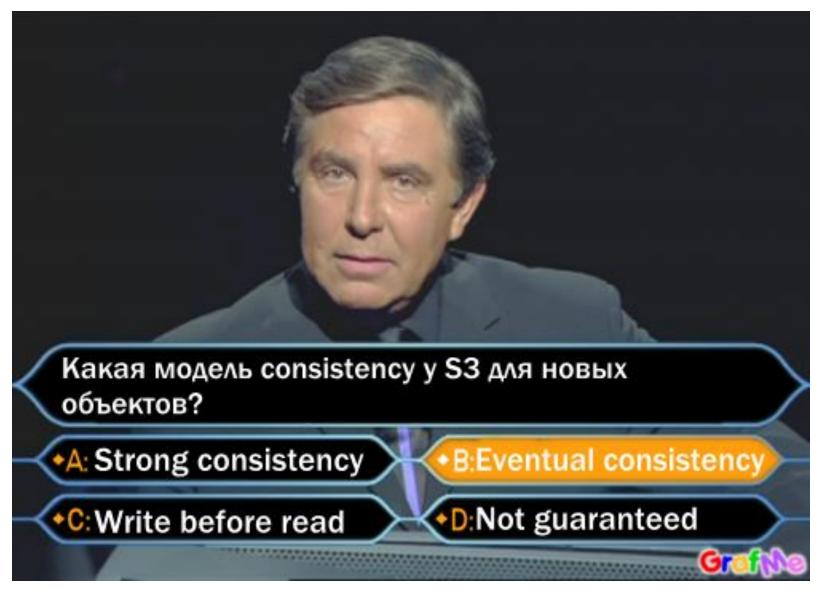
Swift

Что я вам скажу за Swift? Ну, скажем так, мы переехали на S3.

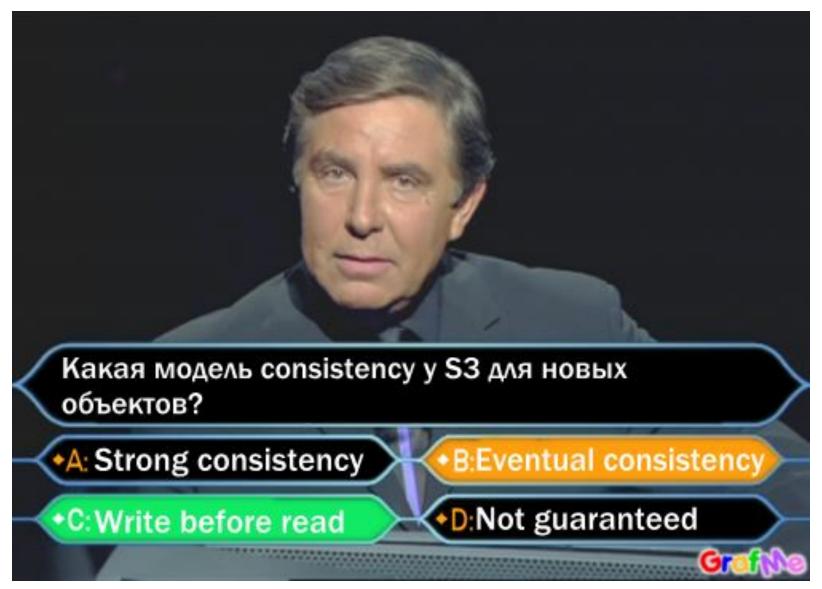
S3 Consistency



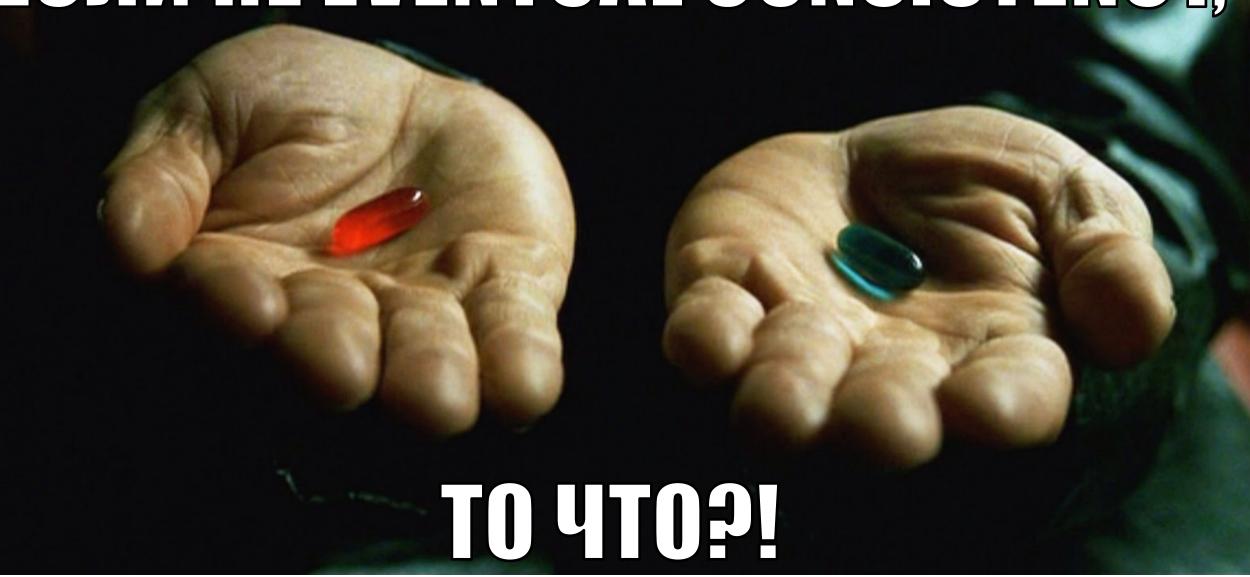
S3 Consistency



S3 Consistency



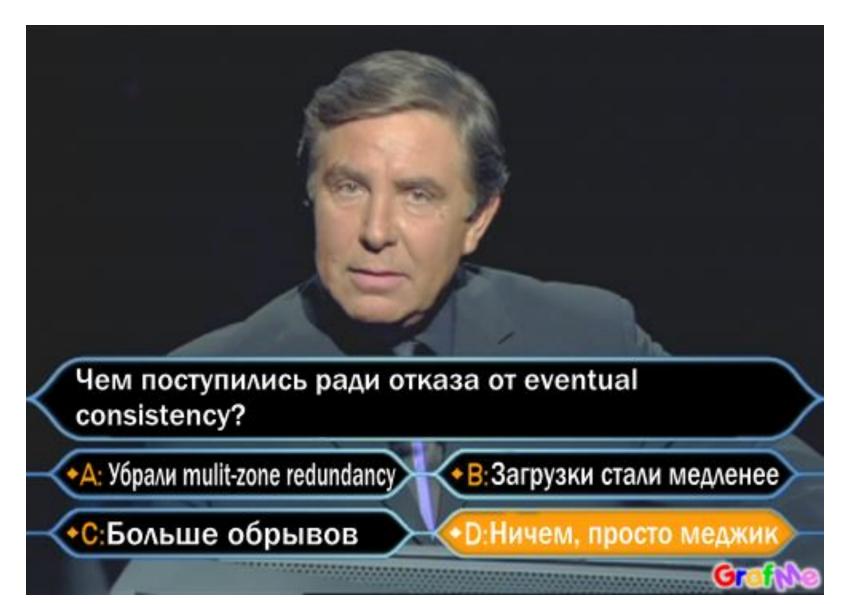




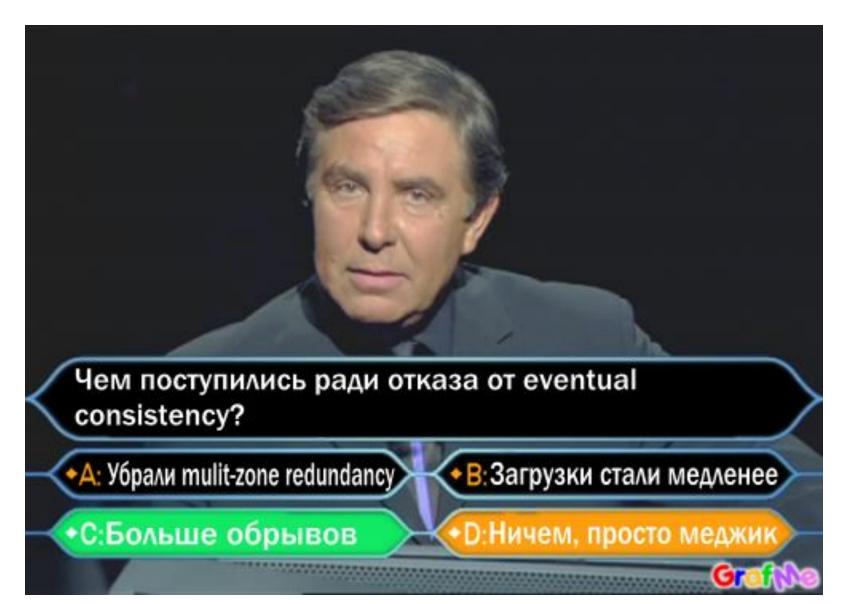
Что вместо?



Что вместо?



Что вместо?



Хмм, чем бы кэшировать файлы?



Внезапно!



– Все первым делом заливается в artifactory

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- Большие файлы кэшируются пока не зальются на s3

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- Маленькие файлы кэширутся навсегда (redundancy)

- Все первым делом заливается в artifactory
- Большие файлы кэшируются пока не зальются на s3
- Маленькие файлы кэширутся навсегда (redundancy)
- Все раздается вместе через virtual repository (оба кэша + s3)

Асинхронные сервисы





Очереди + состояние

Очереди

UTO ECINA CKARY TEGE,

ЧТО ТВОИ МИКРОСЕРВИСЫ НЕ ДОСТАТОЧНО МИКРОР

RPM

Redhat YUM 4 XML+GZ Repository

POM

Java

Maven

1 XML

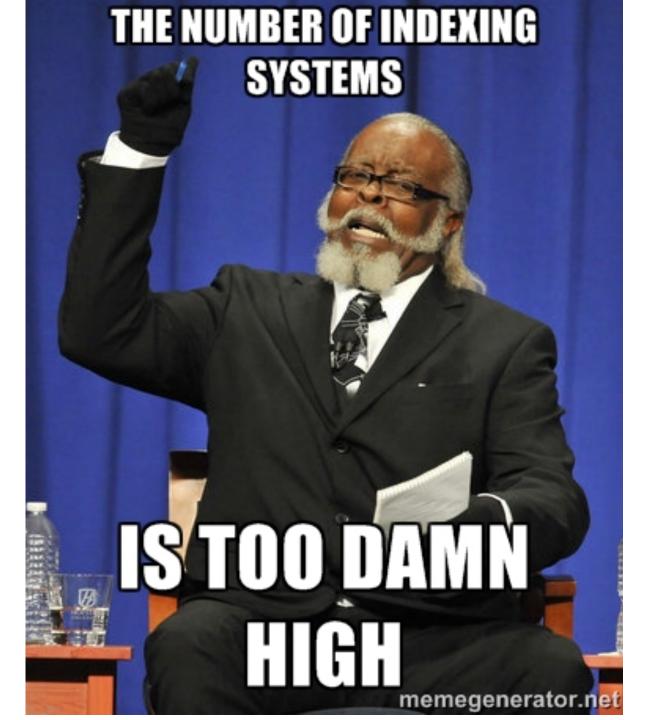
Module

Debian DEB APT
1 TEXT/GZ
Structured

Достаточно тяжелая операция

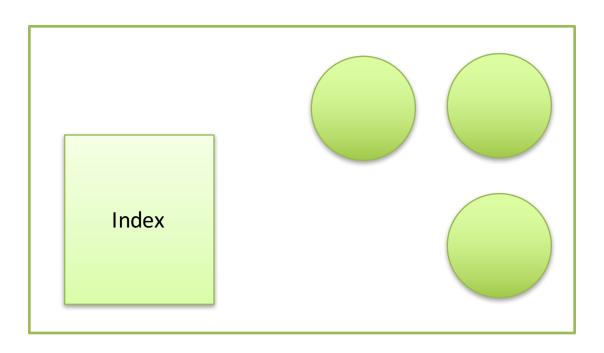
Для 100к файлов:

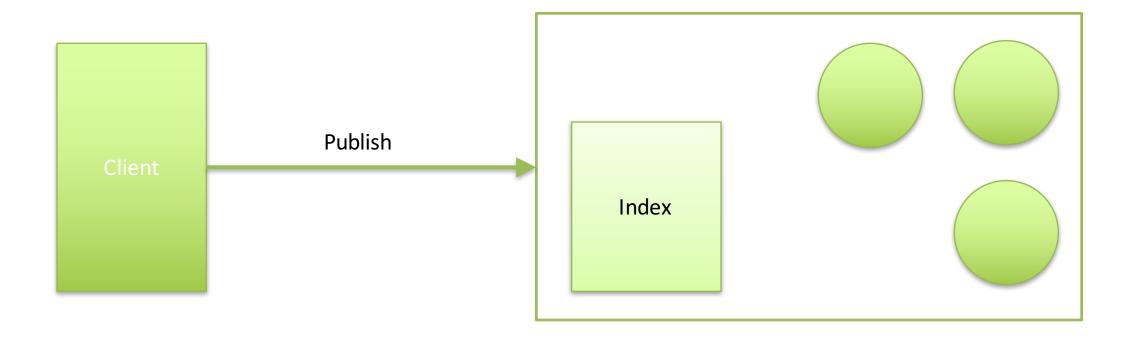
- -Час индексации
- 100мв индекс-файл

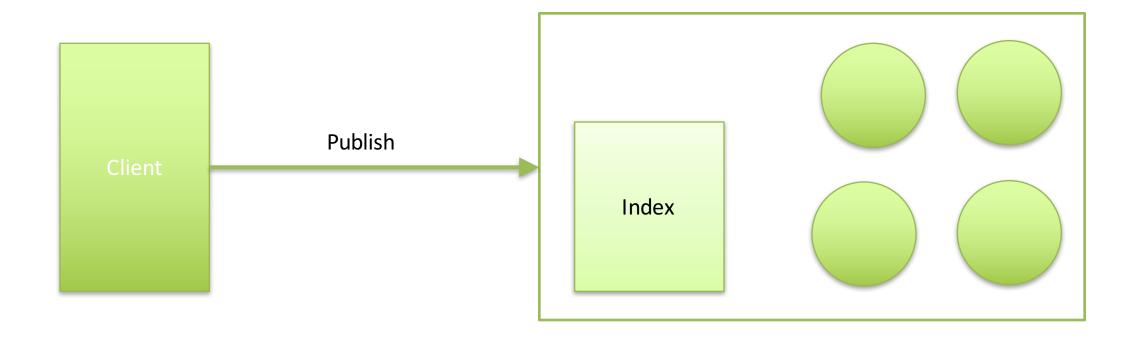


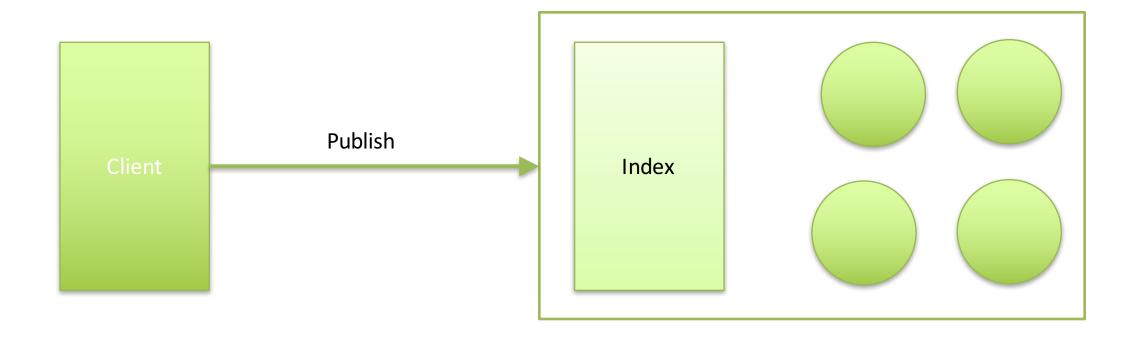
FUNDAMENTAL THEOREM OF SOFTWARE ENGINEERING







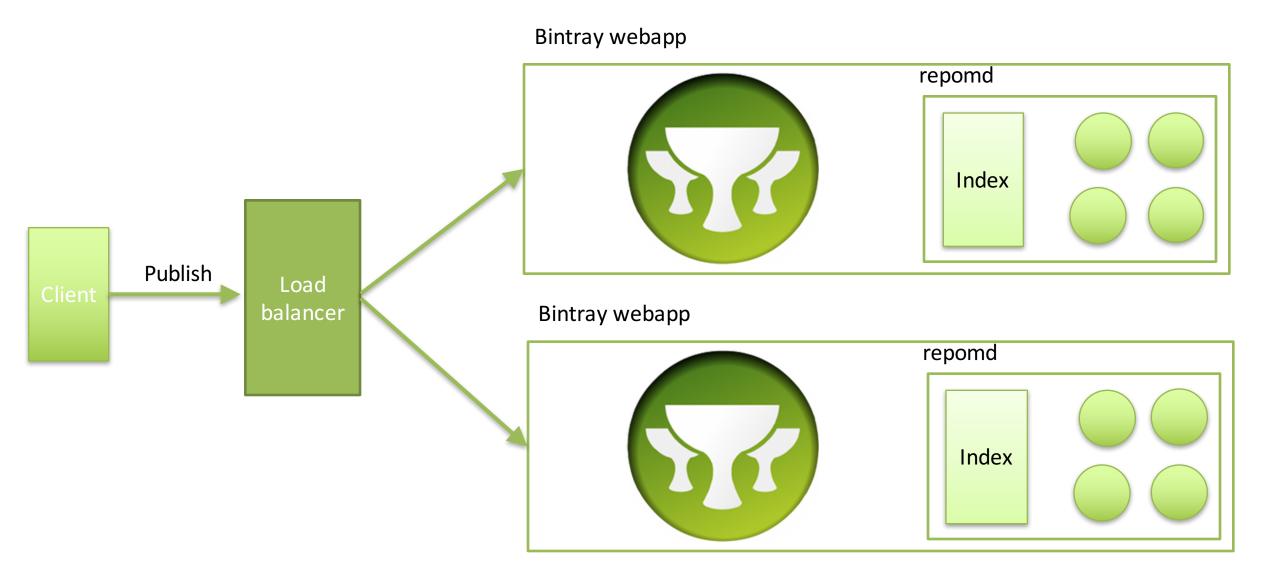




Bintray webapp repomd Publish Index

Bintray webapp repomd Publish Index

А с кластером то что делать?!





– Отдельный редис для каждого индекса

- Отдельный редис для каждого индекса
- Редис принимает запросы

- Отдельный редис для каждого индекса
- Редис принимает запросы
- Редис поддерживает состояние

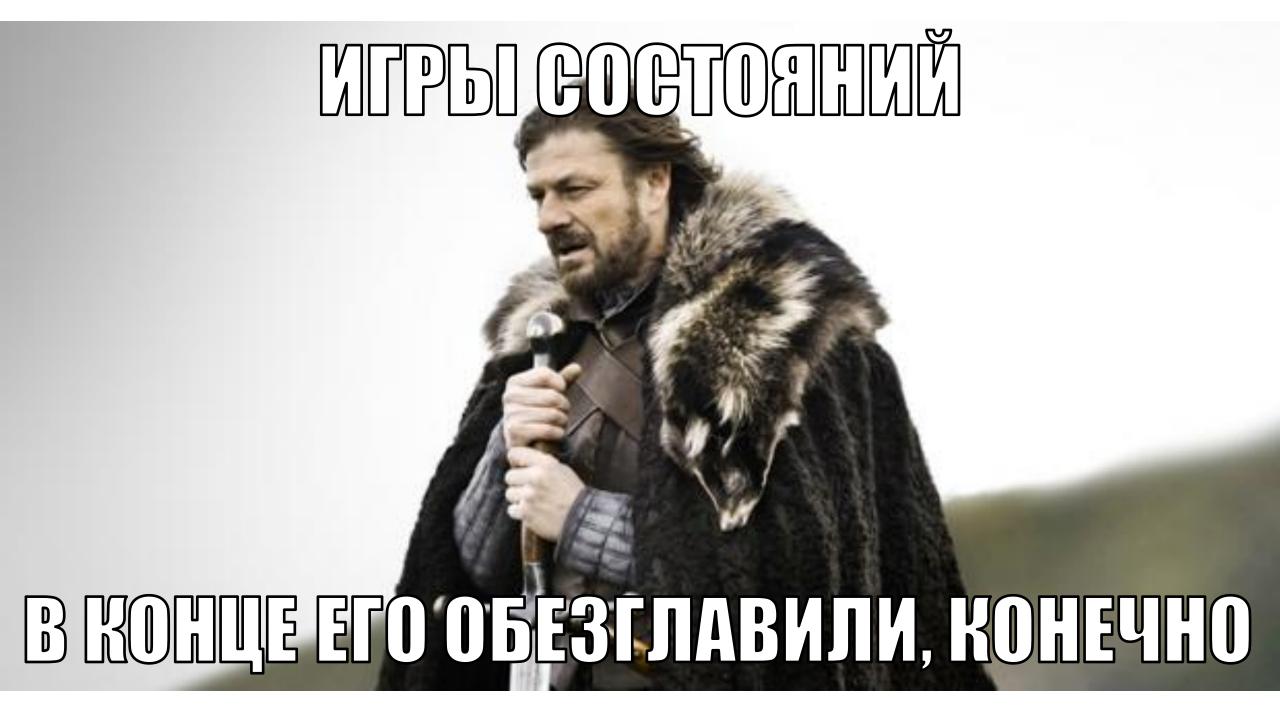
- Отдельный редис для каждого индекса
- Редис принимает запросы
- Редис поддерживает состояние
- Отдельный repomd для каждого индекса

Старый DevEnv and Deploy



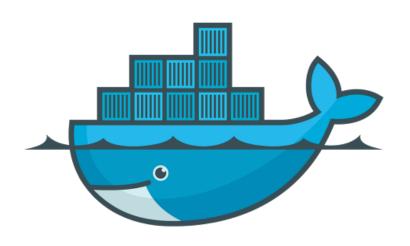






Hовый DevEnv and Deploy





Docker Compose FTW

mongo: image: dev.jfrog.info/mongo ports: - 27017:27017 couchdb: image: dev.jfrog.info/couchdb - 5984:5984 elasticsearch: image: dev.jfrog.info/elasticsearch environment: - ES_HEAP_SIZE=512m ports: - 9200:9200 - 9300:9300 redis: image: dev.jfrog.info/redis ports: - 6379:6379





"Расставашки всегда пичалька".

(с) Сократик

