How we took our server-side application to the Cloud

And liked what we got

DEVNEXUS™

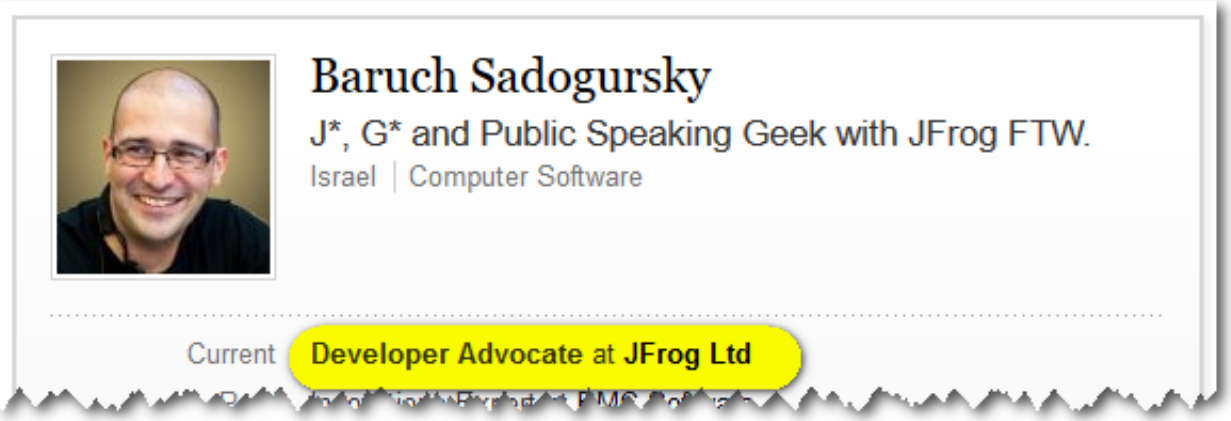
the professional developer conference

WHO'S TALKING?

github.com/jbaruch

@jbaruch

linkd.in/jbaruch

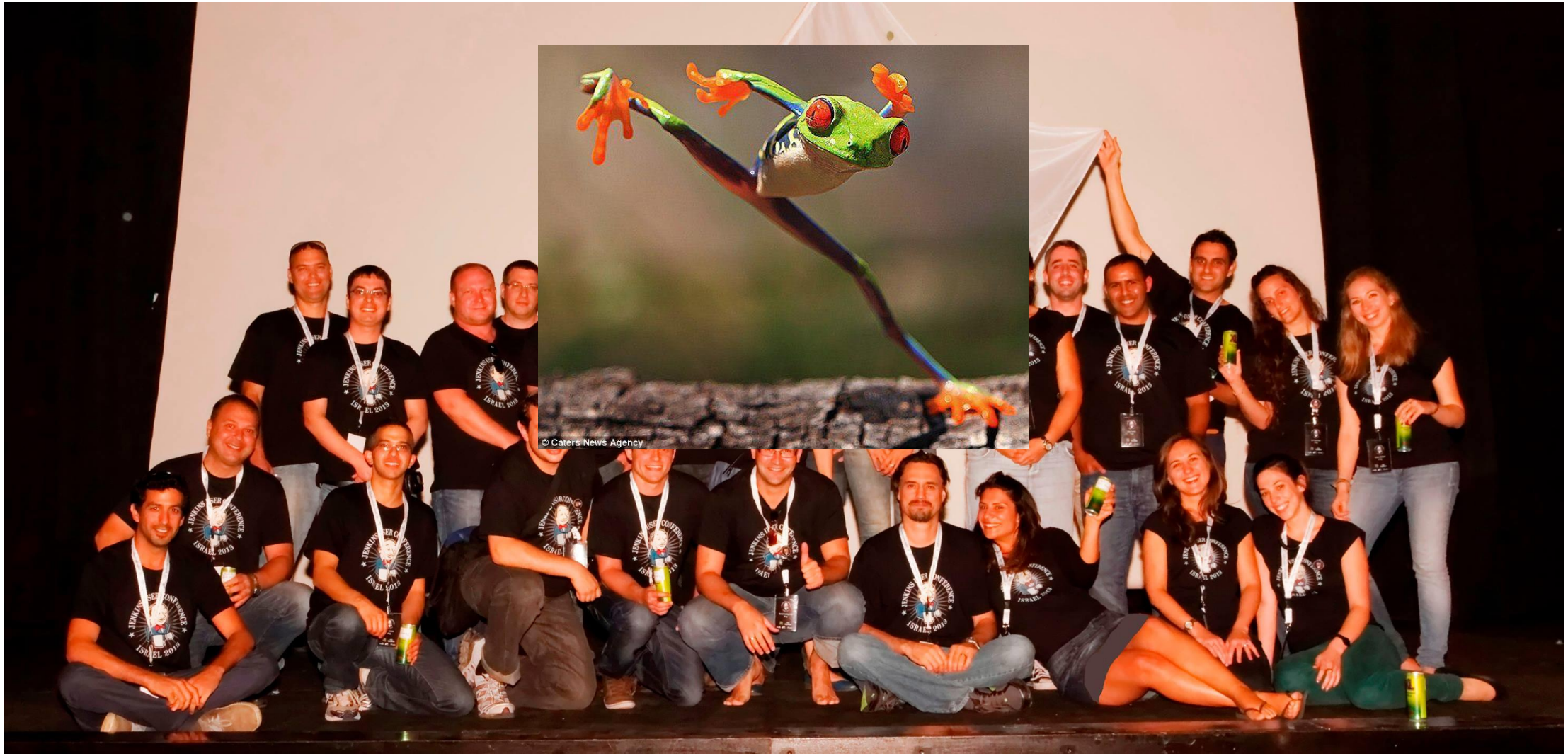


Developer who?

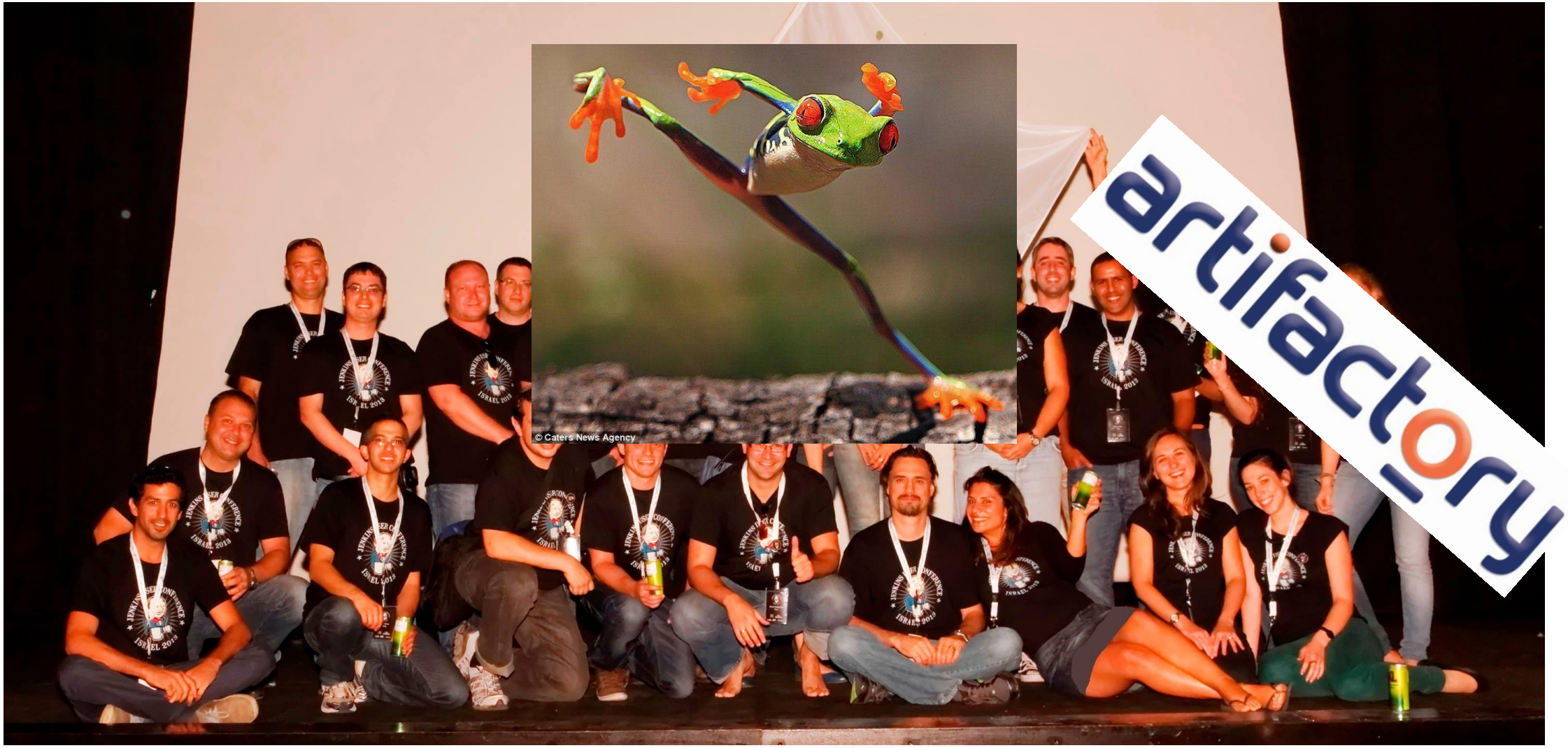
Developer who?

WHAT FROG?

WHAT FROG?



WHAT FROG?



WHAT FROG?

Bintray
once in a 100 years
12/12/12

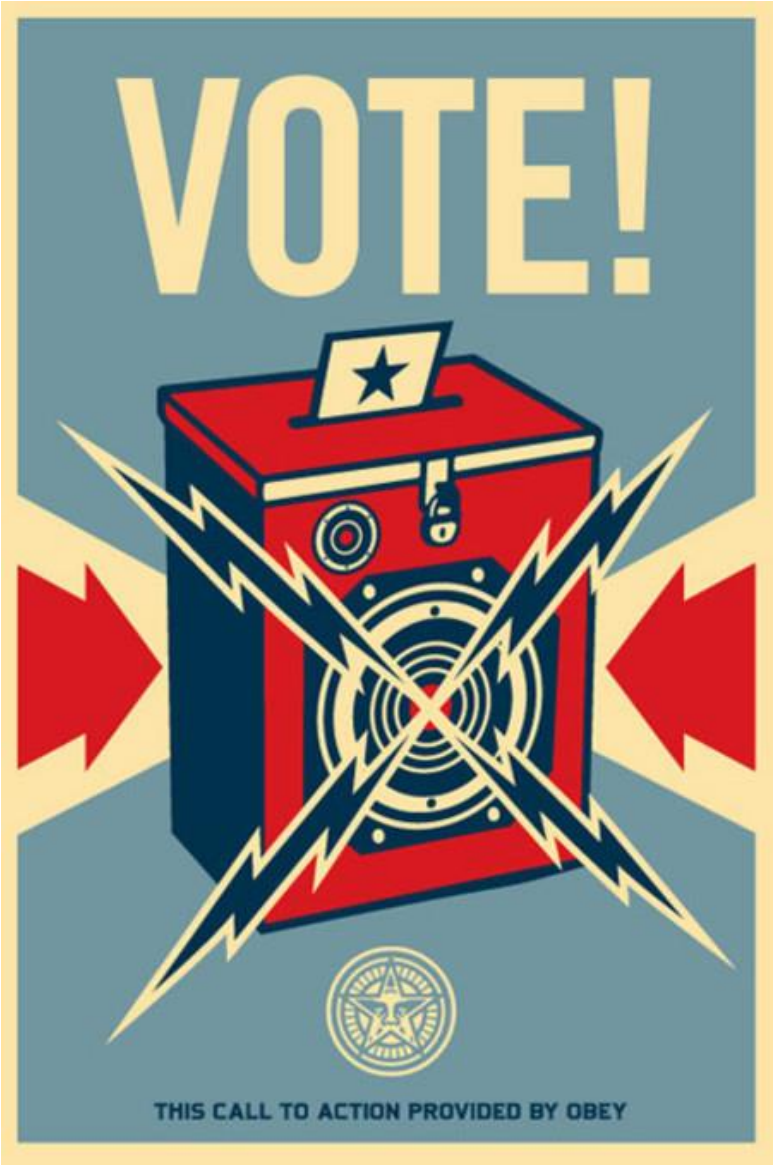
© Caters News Agency

artifactory

SO…

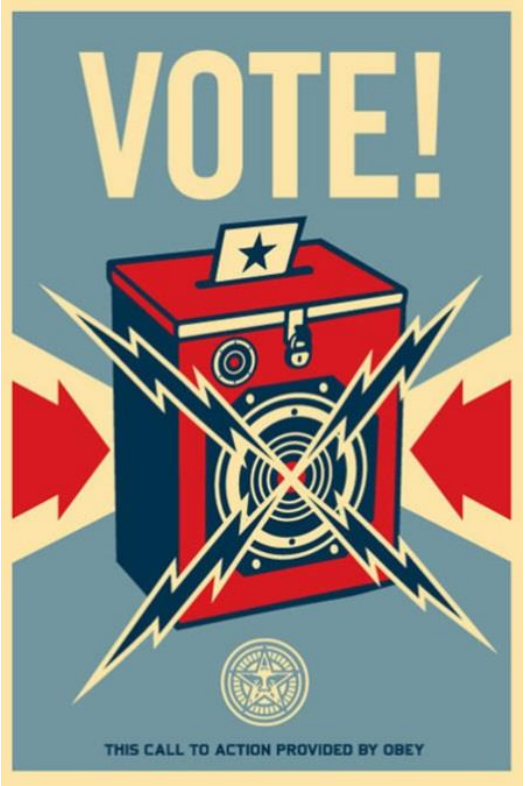
artifactory

First things First.


VOTE!
THIS CALL TO ACTION PROVIDED BY OBEY

Poll time!

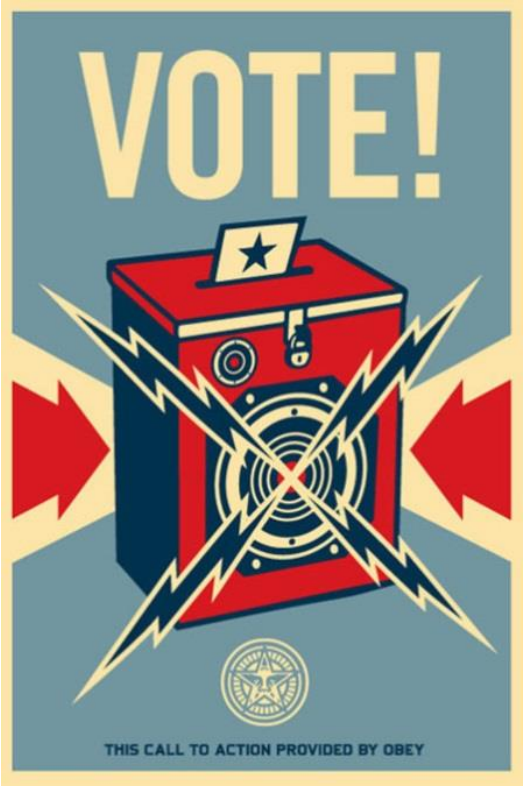
I use binary repository:



Poll time!

I use binary repository:

☑ Naturally, Artifactory!

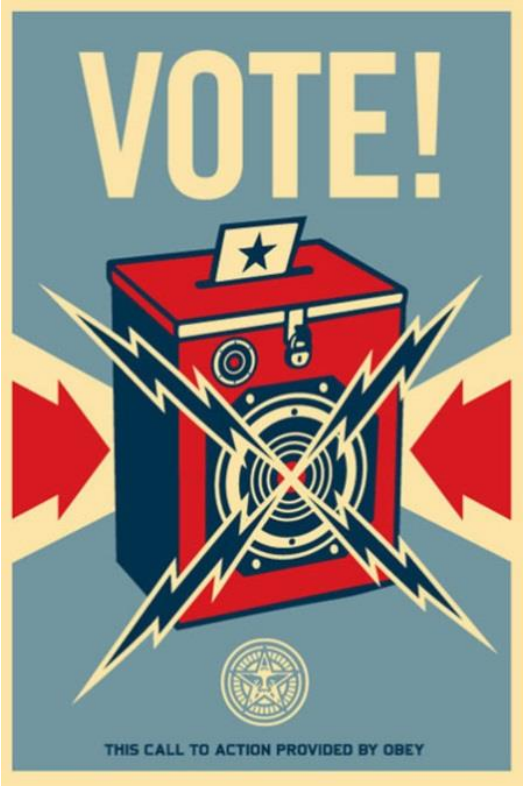


Poll time!

I use binary repository:

☑ Naturally, Artifactory!

☑ Shame on me,
but still Nexus…



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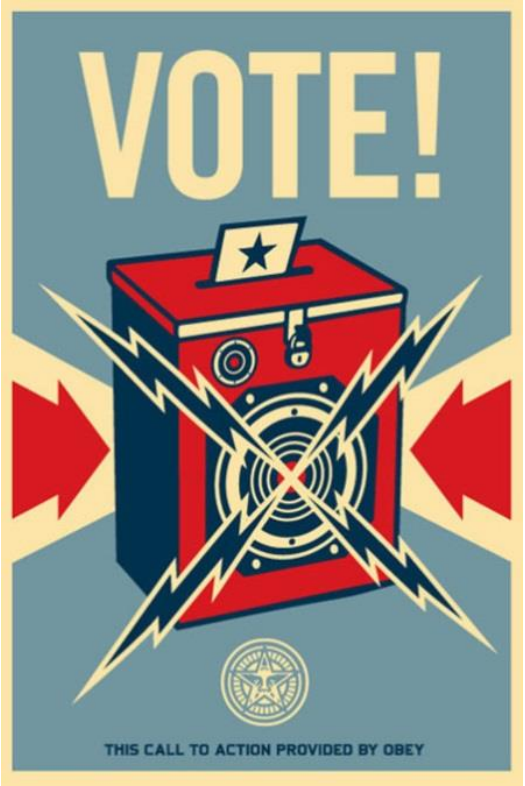

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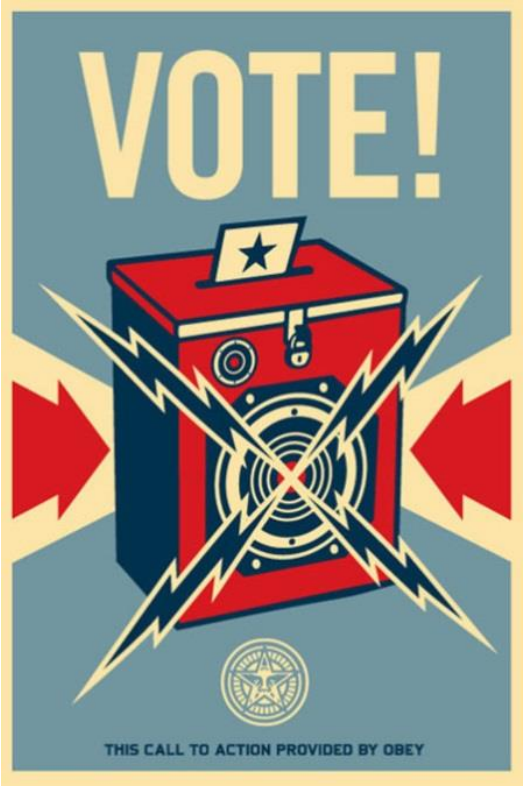
☑ I don’t like features, I use Archiva

Poll time!



I use binary repository:

☑ Naturally, Artifactory!

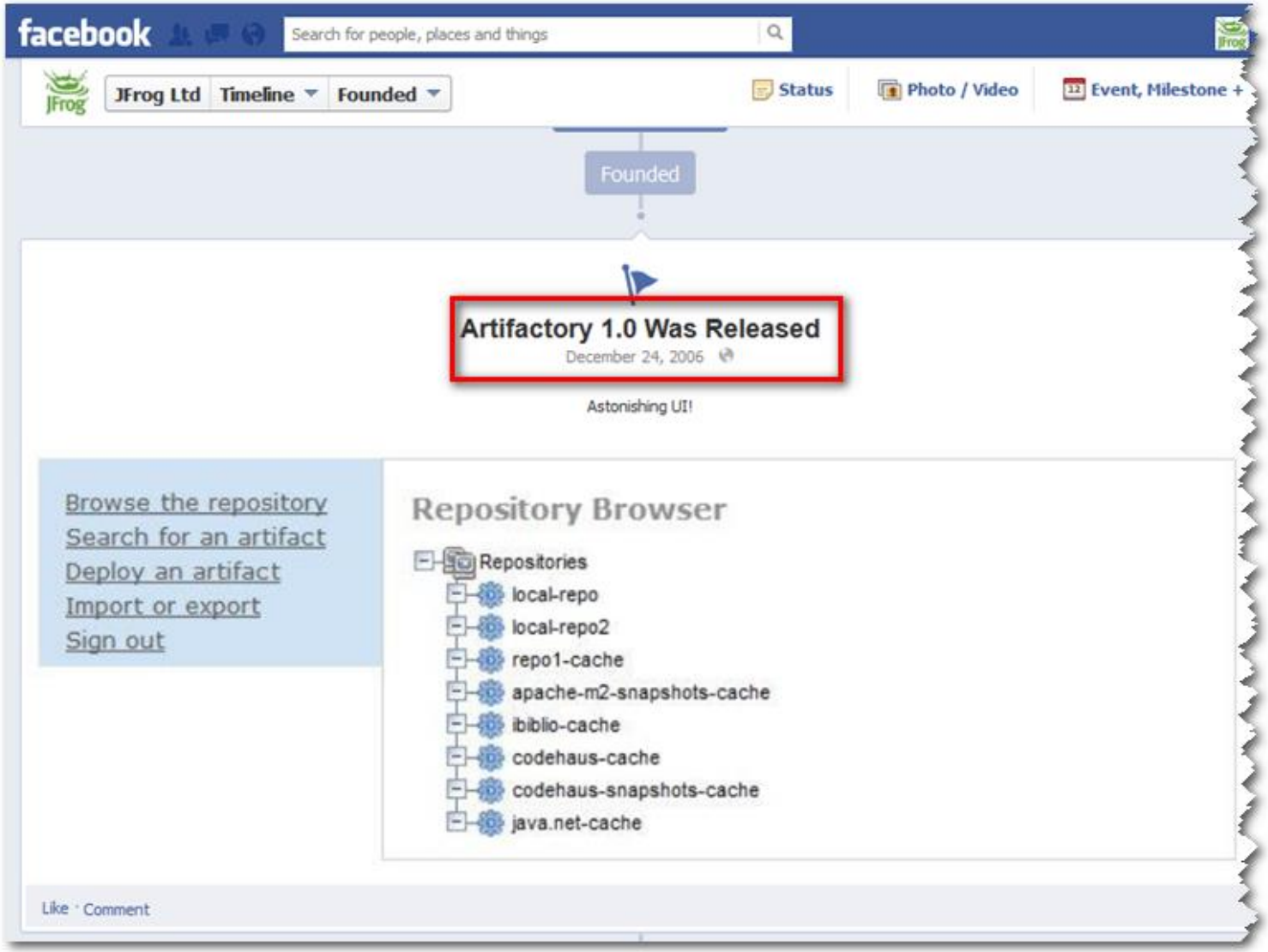
☑ Shame on me,
but still Nexus…

☑ I don’t like features, I use Archiva

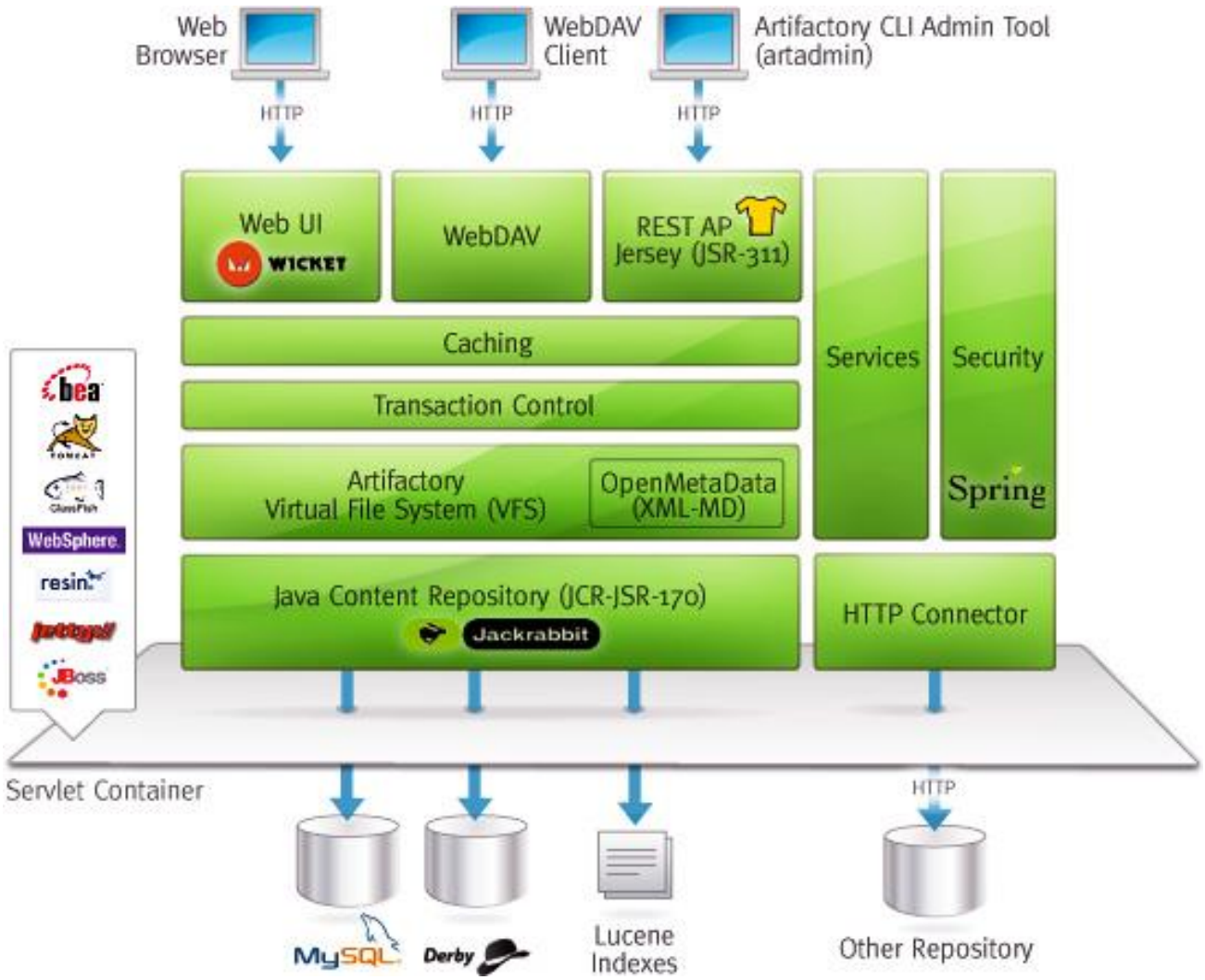
☑ I am a caveman, binary what?

In the beginning…

In the beginning…

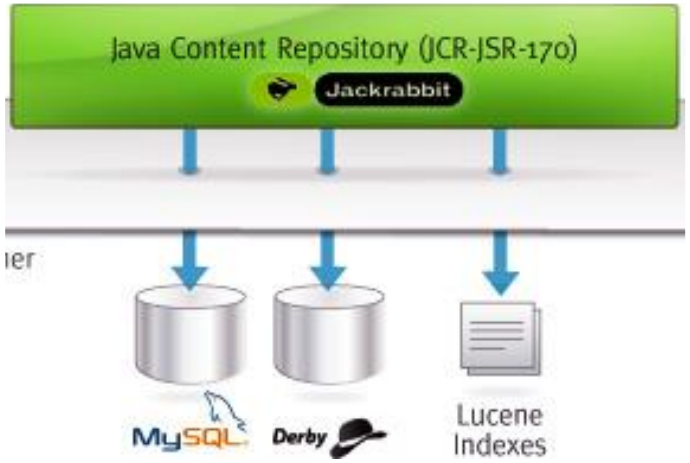


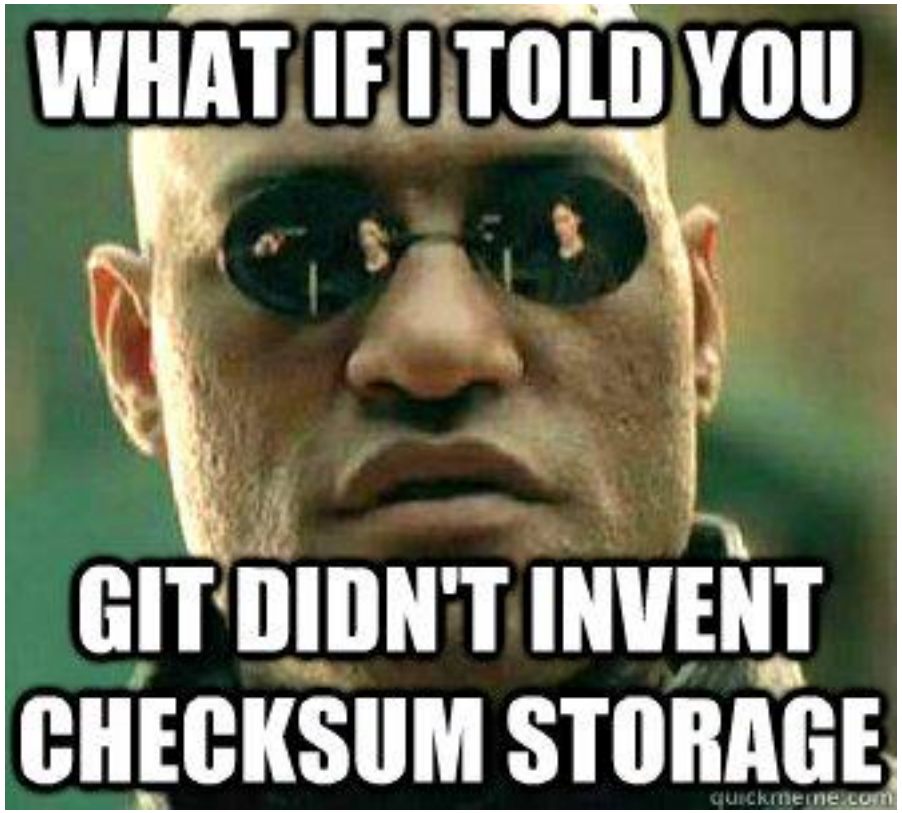
Yet Another Java Server App



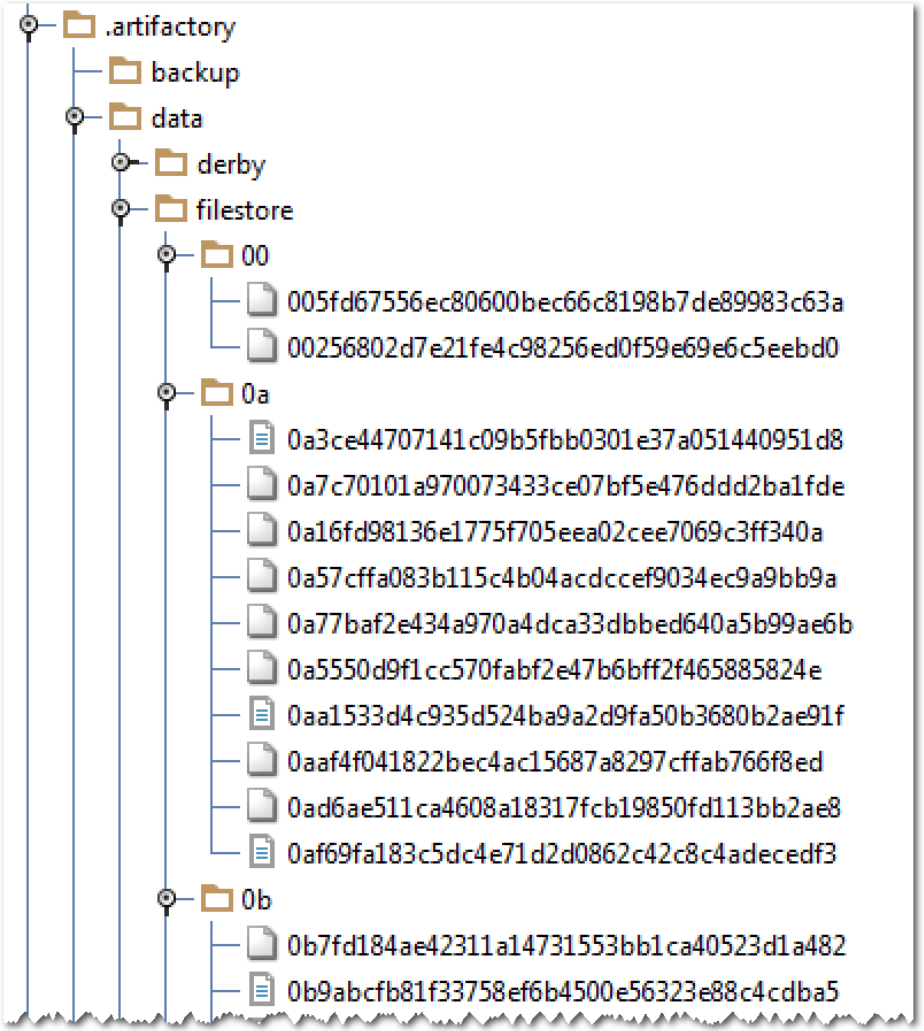
Rabbit?!

RABBIT SEASON
RABBIT SEAZON
Rabbit
RABBIT SEASON

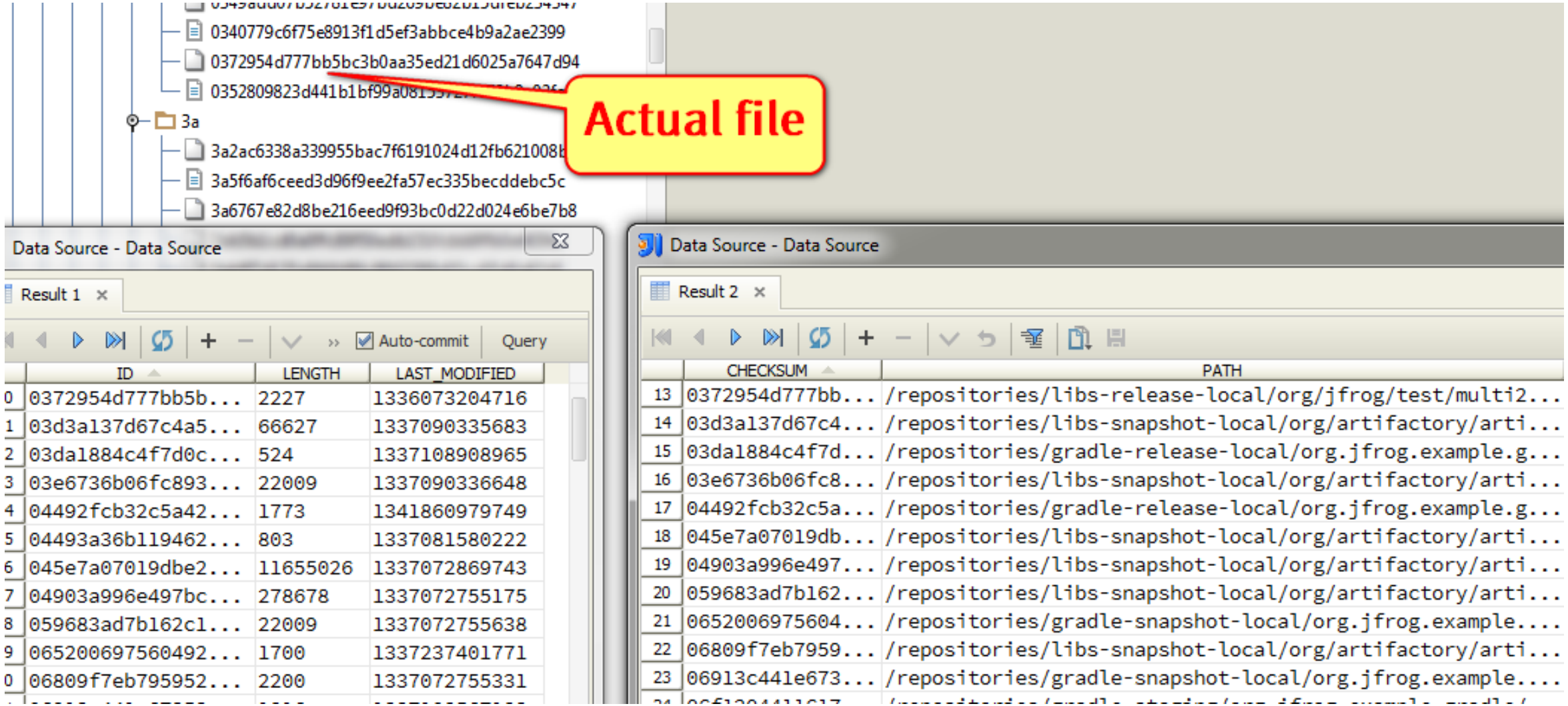

Java Content Repository (JCR-JSR-170)
Jackrabbit
MySQL
Derby
Lucene Indexes


WHAT IF I TOLD YOU
GIT DIDN'T INVENT
CHECKSUM STORAGE
quickmeme.com

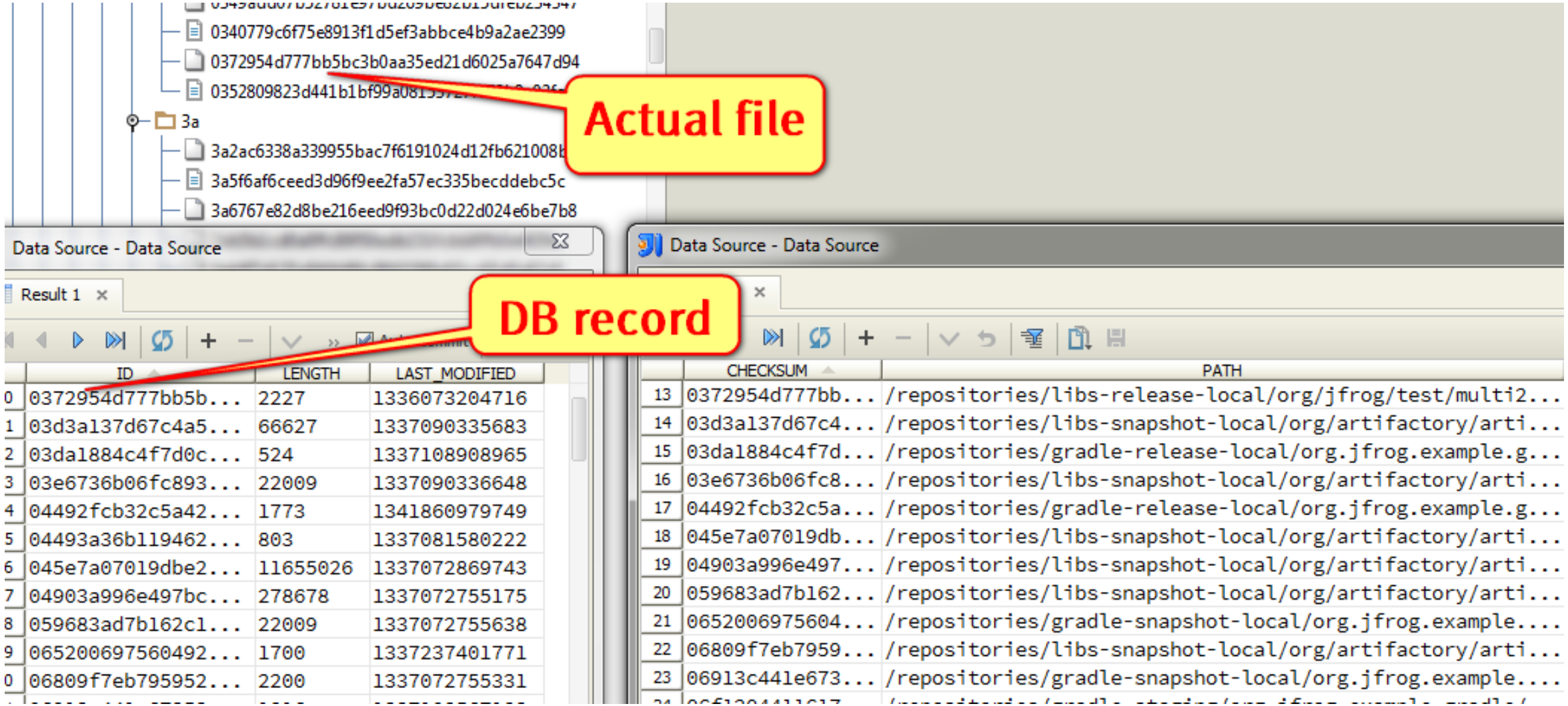
Checksum storage



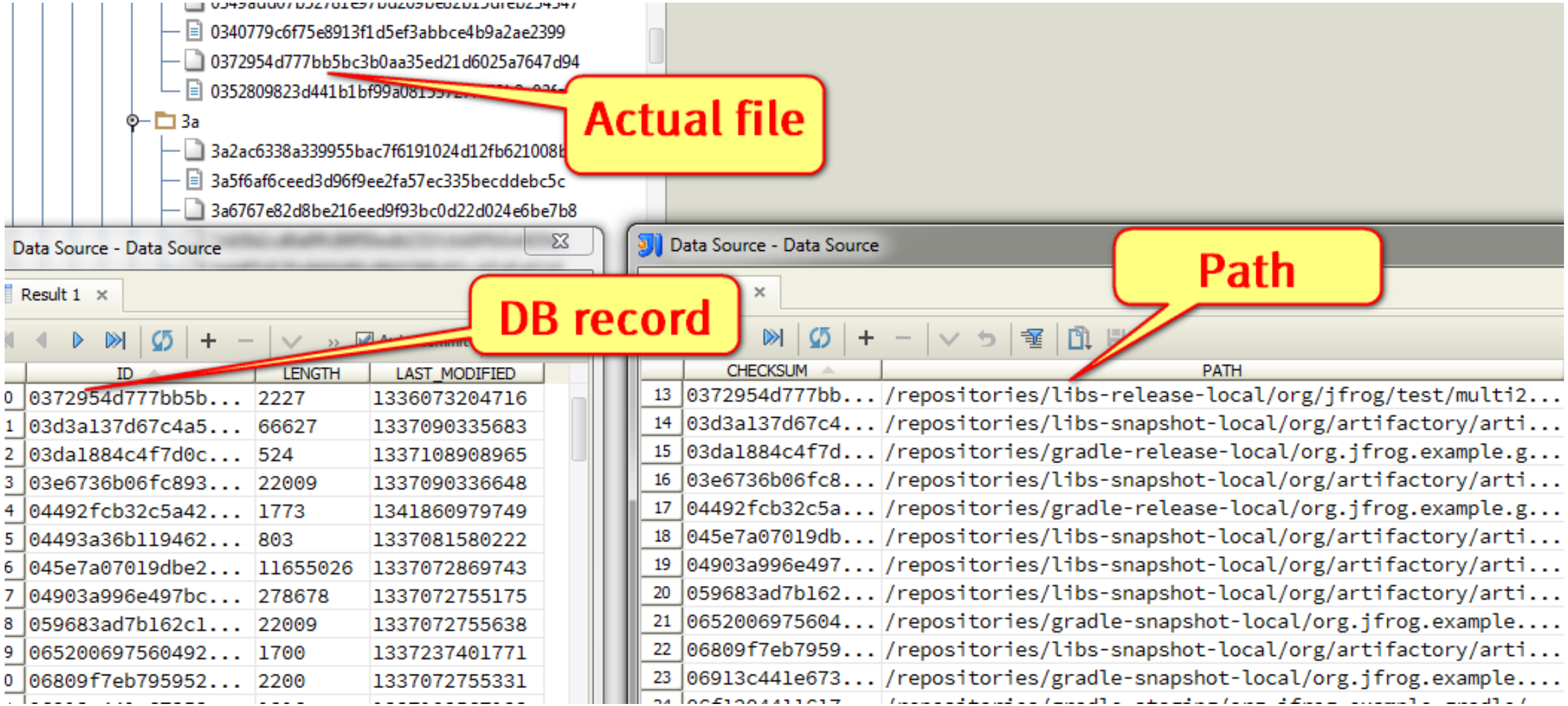
Checksum storage



Checksum storage



Checksum storage

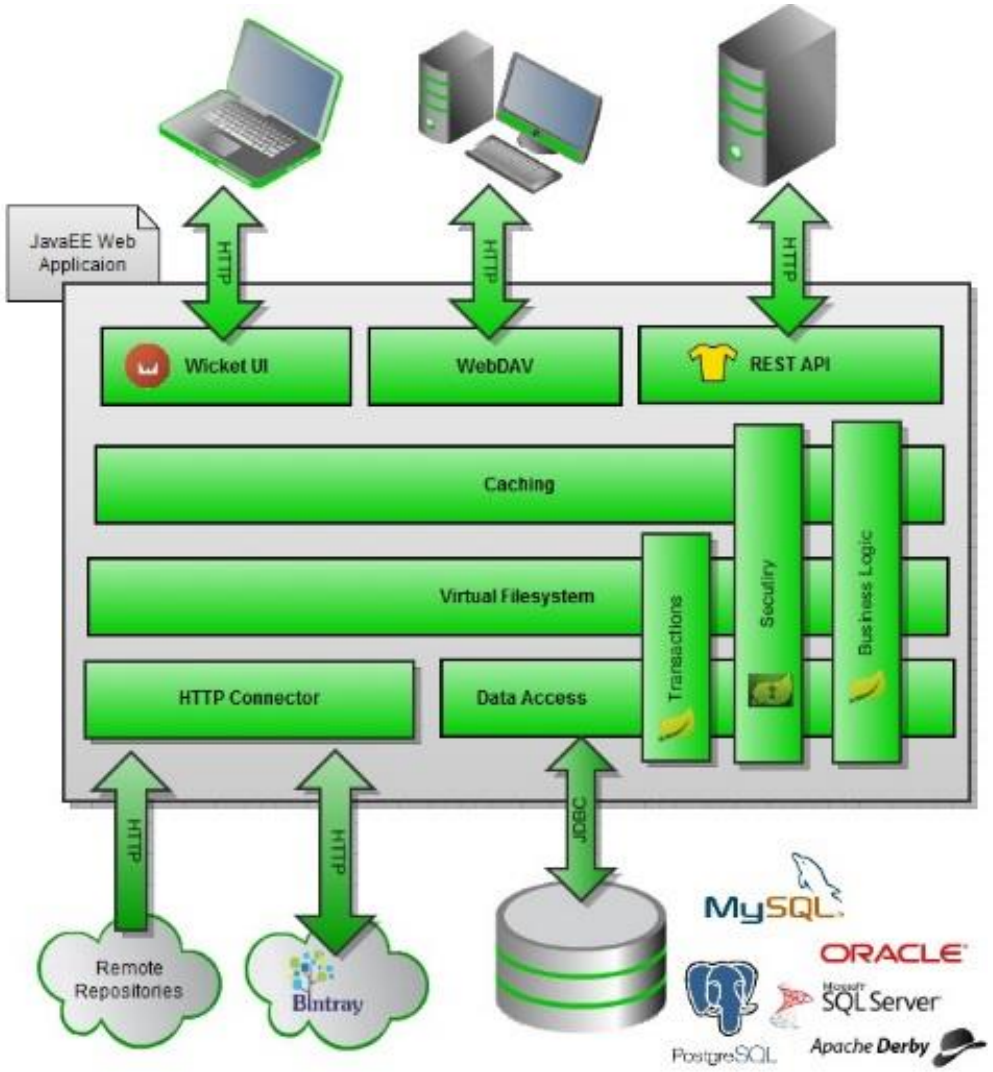


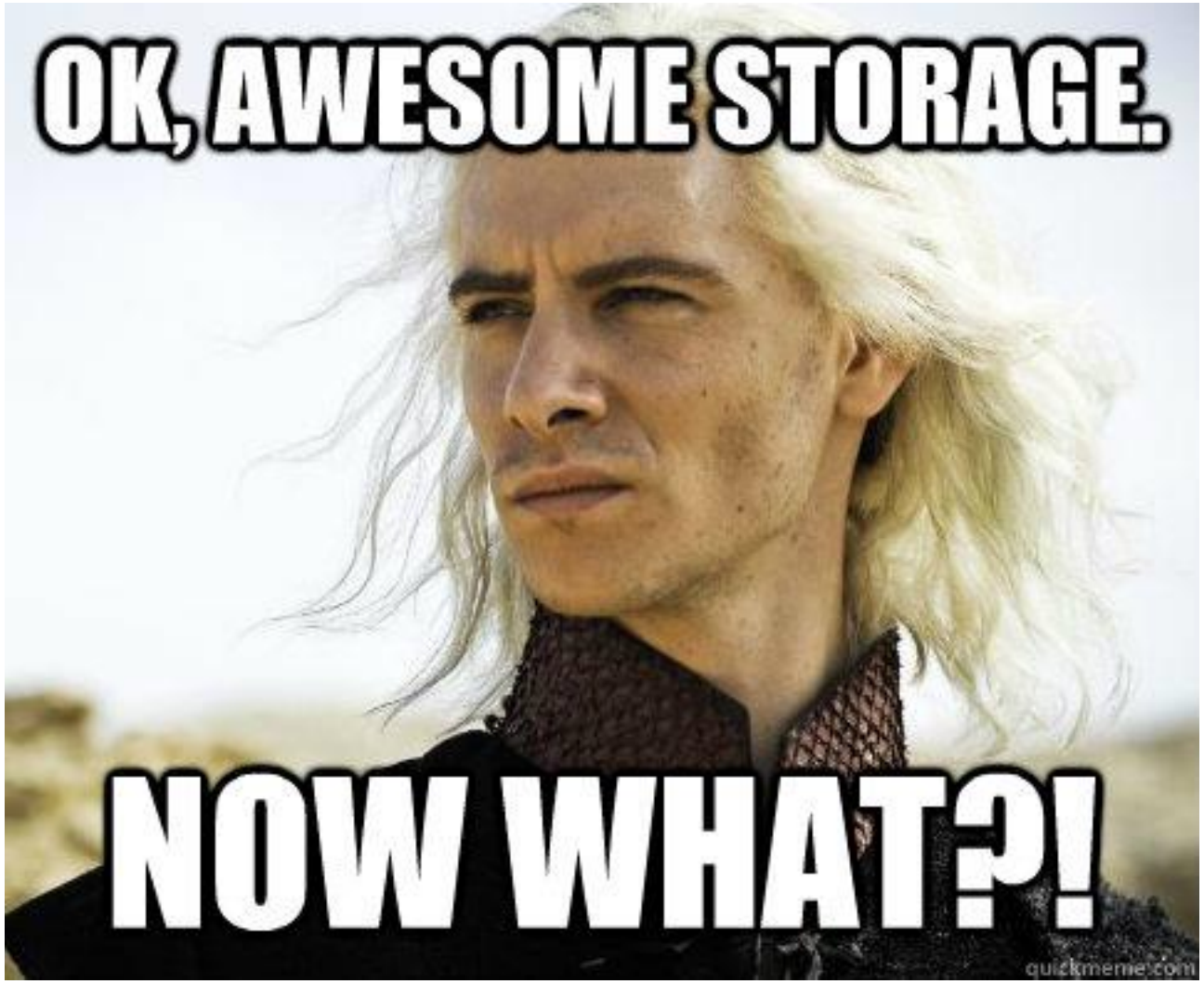
Append Only, GC-ed

OMG, THEY KILLED ~~KENNY~~ JACKRABBIT

YOU, BASTARDS?

Artifactory 3 – 10 times faster!
(Not bastards)



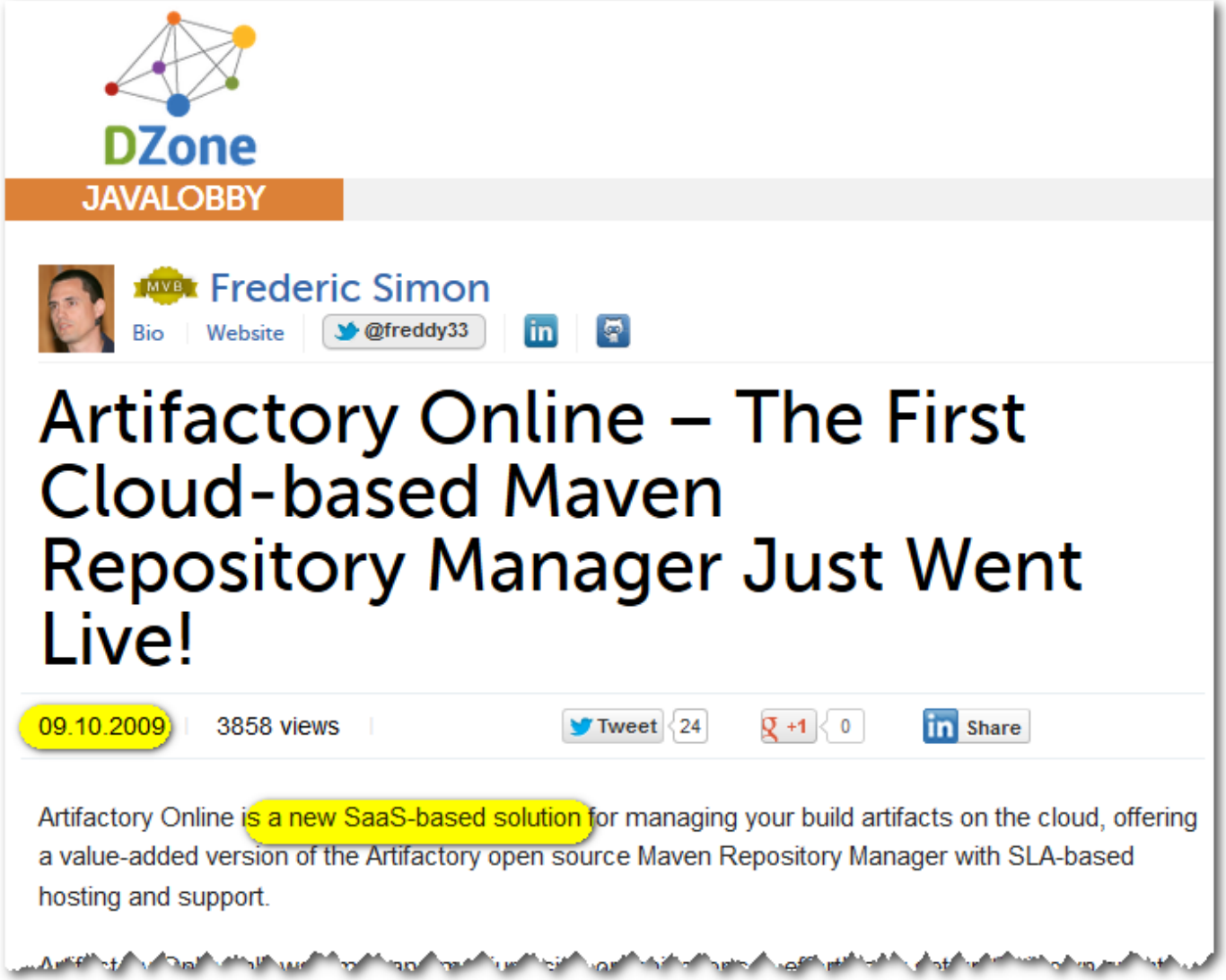

OK, AWESOME STORAGE.
NOW WHAT?!
quickmeme.com

Moving Forward

Moving Forward

Moving Forward

Moving Forward



DZone

JAVALOBBY

Frederic Simon

Bio | Website | @freddy33

Artifactory Online – The First Cloud-based Maven Repository Manager Just Went Live!

09.10.2009 | 3858 views | Tweet 24 | +1 0 | Share

Artifactory Online is a new SaaS-based solution for managing your build artifacts on the cloud, offering a value-added version of the Artifactory open source Maven Repository Manager with SLA-based hosting and support.

Moving Forward

Artifactory SaaS

etc.

WHAT YOU LIKE ABOUT IT:

WHAT YOU LIKE ABOUT IT:

- NO NEED TO MAINTAIN THE SERVER

WHAT YOU LIKE ABOUT IT:

- NO NEED TO MAINTAIN THE SERVER
- FANATIC TECH SUPPORT

WHAT YOU LIKE ABOUT IT:

- NO NEED TO MAINTAIN THE SERVER
- FANATIC TECH SUPPORT
- ALWAYS UP TO DATE!

WHAT YOU LIKE ABOUT IT:

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WHAT YOU DON'T LIKE ABOUT IT:

WHAT YOU LIKE ABOUT IT:

- NO NEED TO MAINTAIN THE SERVER
- FANATIC TECH SUPPORT
- ALWAYS UP TO DATE!

WHAT YOU DON'T LIKE ABOUT IT:

- CAN'T DEPLOY YOUR OWN PLUGINS!

WHAT YOU LIKE ABOUT IT:

- NO NEED TO MAINTAIN THE SERVER
- FANATIC TECH SUPPORT
- ALWAYS UP TO

WHAT YOU DO BOUT IT:

- CAN'T DEPL OWN PLUGINS!

You can!
You just need a dedicated server.

WHAT YOU

- NO NEE IE
  SERVER
- FANATIC
- ALWAYS

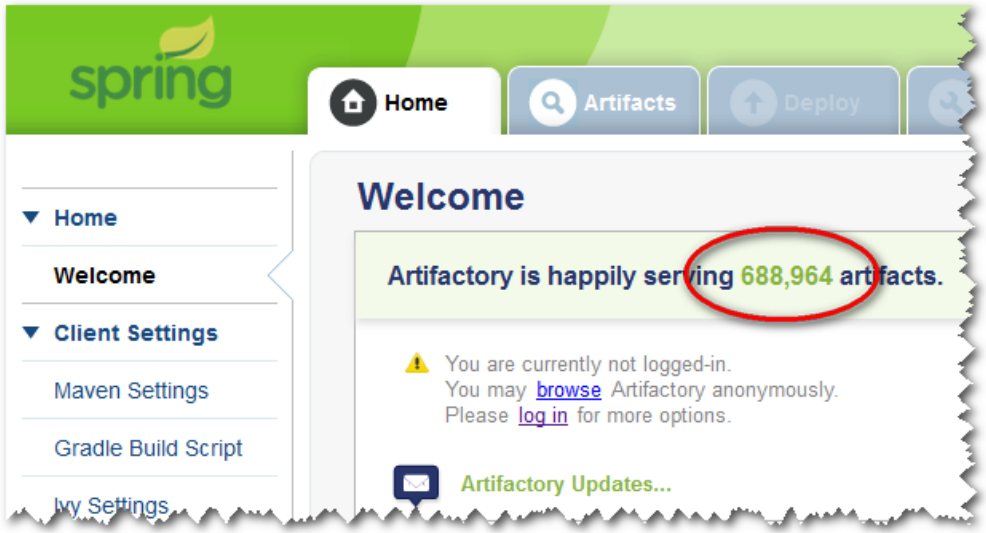
WHAT YOU T IT:

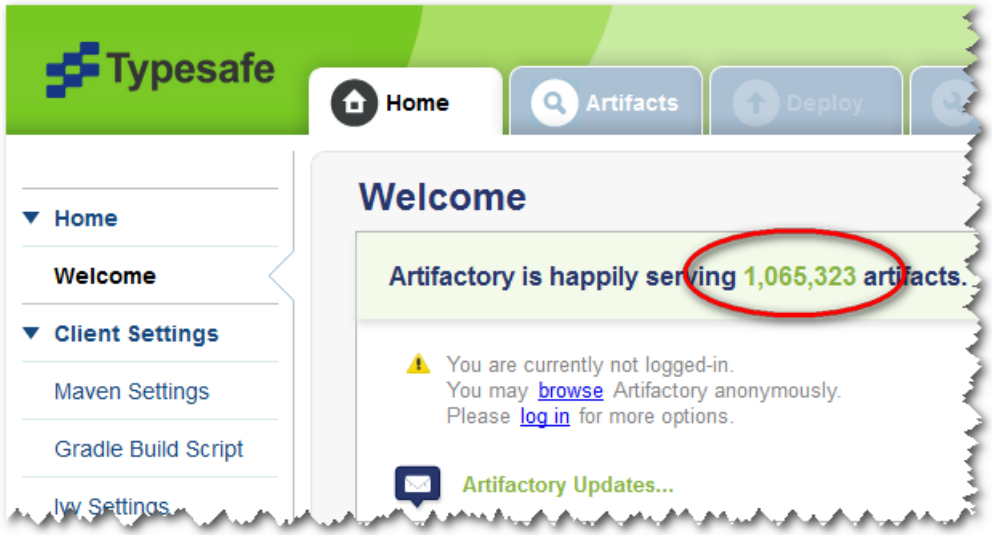
- CAN'T D PLUGINS!

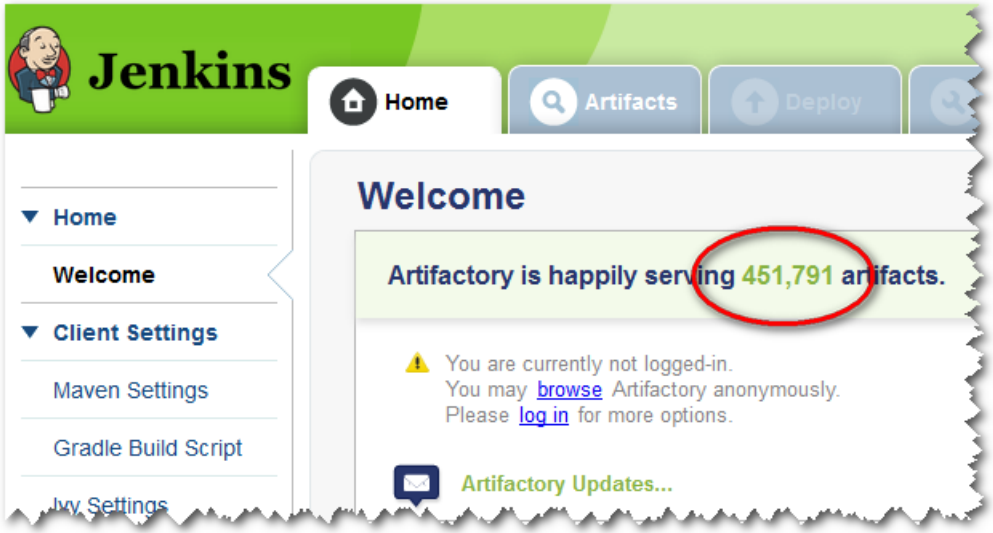
Artifactory SaaS

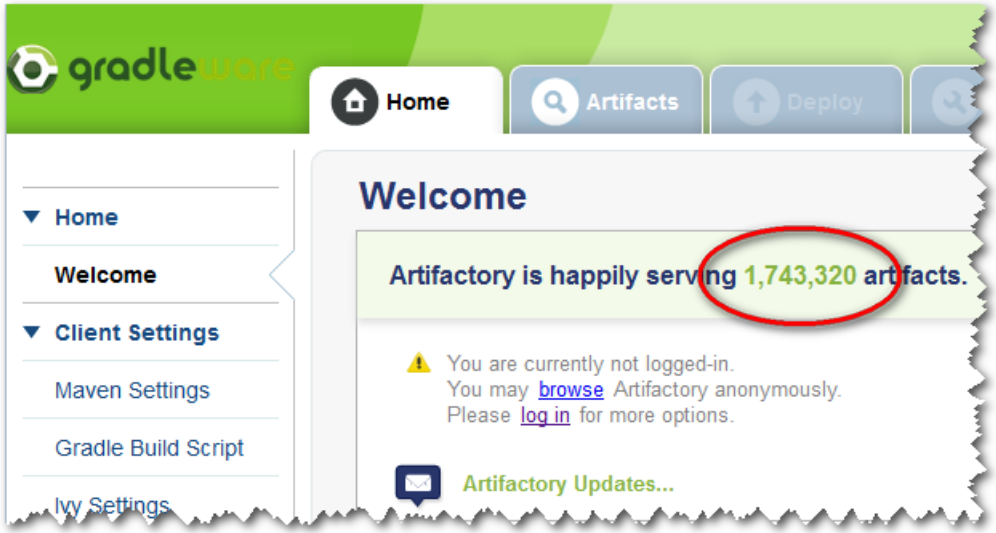
etc.

Sh.t-load of artifacts!









Terabytes.

$0.095 per GB-Month of snapshot data stored	0.793 GB-Mo	
$0.10 per 1 million I/O requests	3,674,842,679 IOs	
$0.10 per GB-month of provisioned storage	16,909.238 GB-Mo	

FEBRUARY

Terabytes.

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MAY

$0.095 per GB-Month of snapshot data stored	3.313 GB-Mo
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Terabytes.

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AUGUST

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$0.10 per 1 million I/O requests	6,308,849,956 IOs
$0.10 per GB-month of provisioned storage	32,367.481 GB-Mo

Terabytes.

MAY

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$0.10 per 1 million I/O requests	4,350,305,006 IOs
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AUGUST

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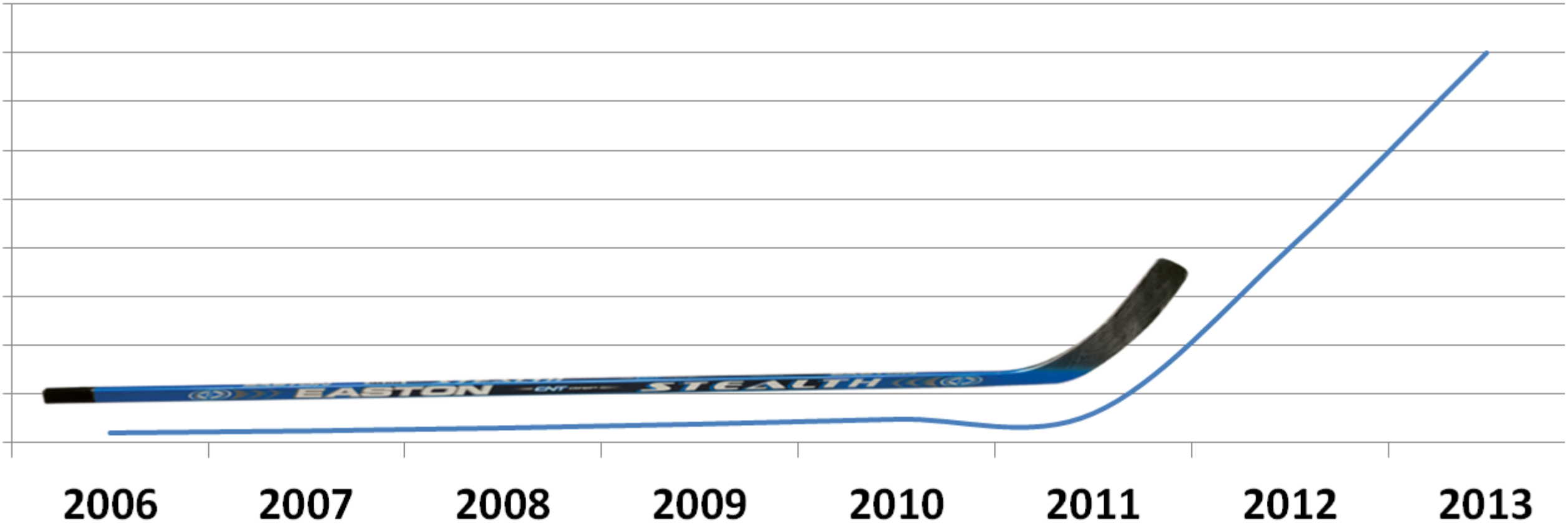
$0.10 per 1 million I/O requests	6,308,849,956 IOs
$0.10 per GB-month of provisioned storage	32,367.481 GB-Mo

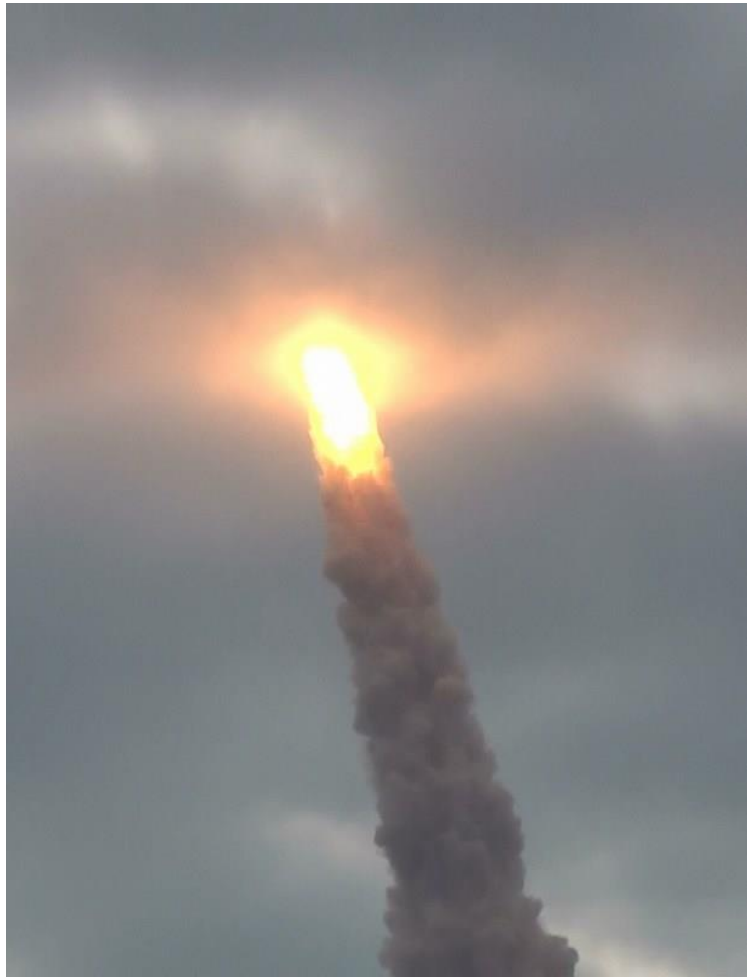
JANUARY

$0.095 per GB-Month of snapshot data stored	6.426 GB-Mo
$0.10 per 1 million I/O requests	9,793,749,671 IOs
$0.10 per GB-month of provisioned storage	43,309.163 GB-Mo

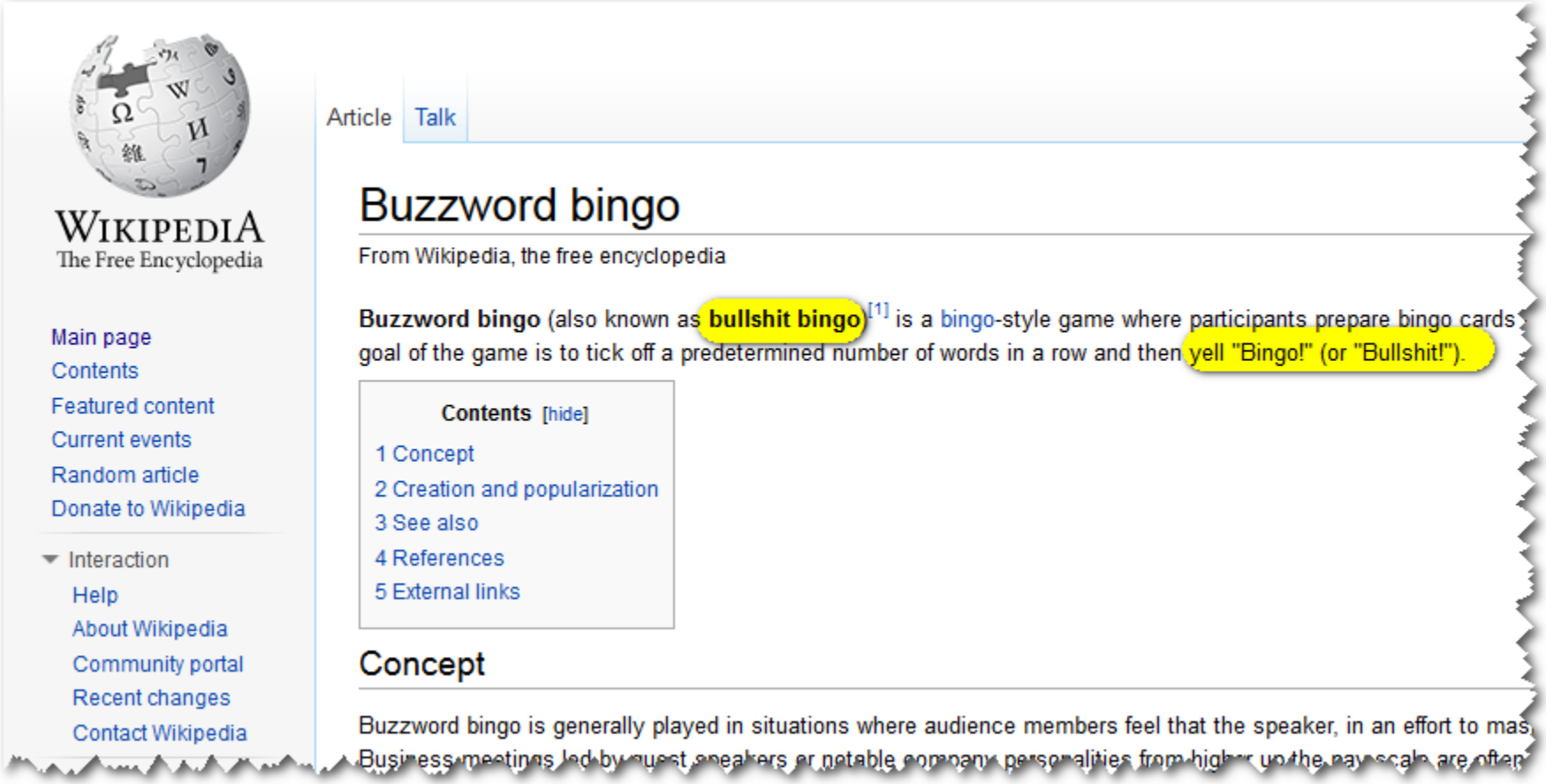
Bring Them On!



To The Cloud



Bullshit Bingo



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The Free Encyclopedia

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Buzzword bingo

From Wikipedia, the free encyclopedia

Buzzword bingo (also known as **bullshit bingo**)[1] is a bingo-style game where participants prepare bingo cards goal of the game is to tick off a predetermined number of words in a row and then yell "Bingo!" (or "Bullshit!").

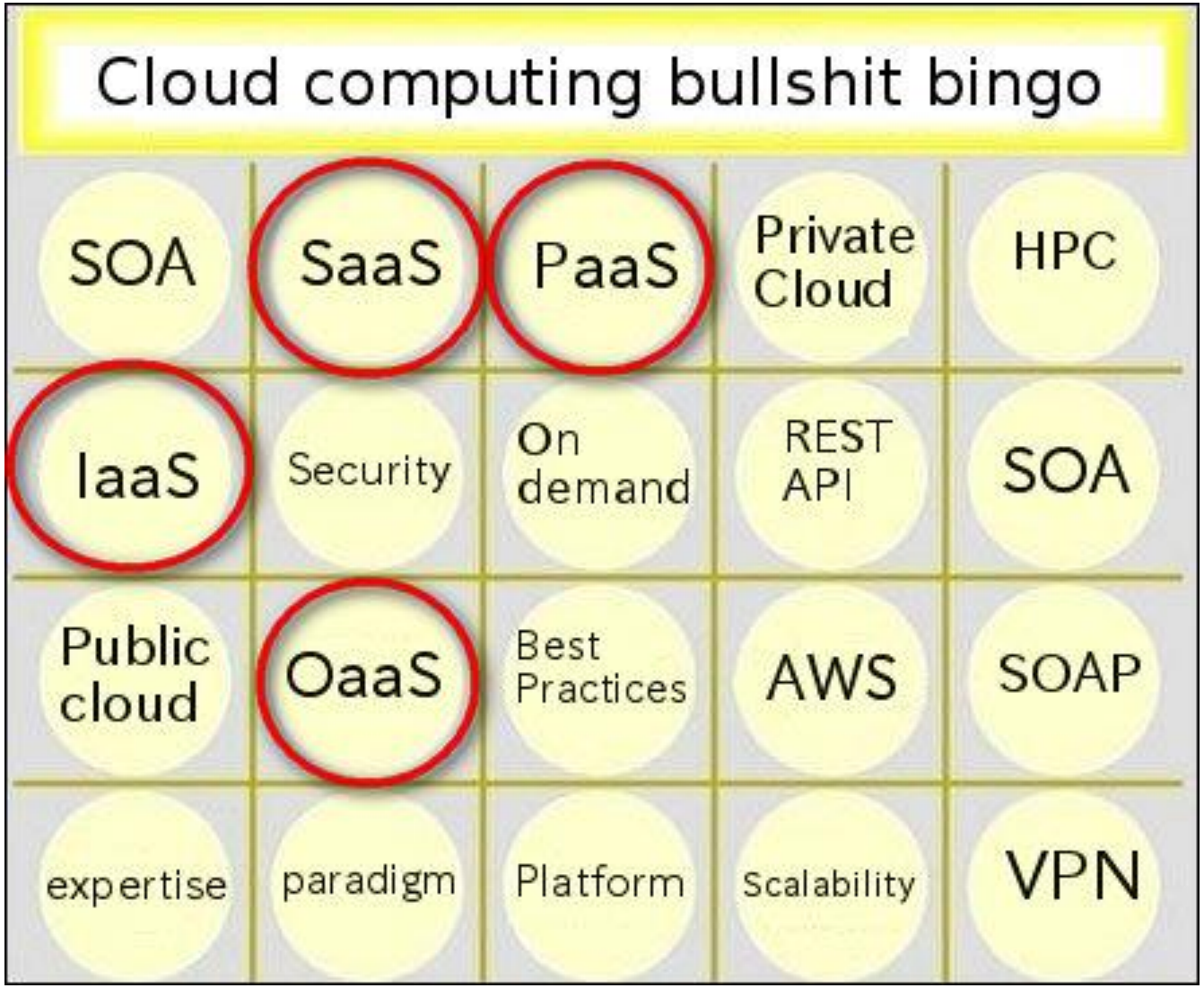
Contents [hide]

1 Concept
2 Creation and popularization
3 See also
4 References
5 External links

Concept

Buzzword bingo is generally played in situations where audience members feel that the speaker, in an effort to mas
Business meetings led by guest speakers or notable company personalities from higher up the pay scale are often

Much ado about *aaS



* As A Service

* As A Service

Self-service

* As A Service

Self-service

Multi-tenancy

WARNING
Controversial example ahead!
You might find it inaccurate.
If you are annoyed by that feeling,
try to remember – it's just an
example.

GaaE: Google as an Example

Product	Self Service	Multi-tenant	* aaS

GaaE: Google as an Example

Product	Self Service	Multi-tenant	* aaS
Gmail	✓	✗	Not *aaS, web-app

GaaE: Google as an Example

Product	Self Service	Multi-tenant	* aaS
Gmail	✓	✗	Not *aaS, web-app
Google Apps	✓	✓	SaaS

GaaE: Google as an Example

Product	Self Service	Multi-tenant	* aaS
Gmail	✓	✗	Not *aaS, web-app
Google Apps	✓	✓	SaaS
Google App Engine	✓	✓	PaaS

GaaE: Google as an Example

Product	Self Service	Multi-tenant	* aaS
Gmail	✓	✗	Not *aaS, web-app
Google Apps	✓	✓	SaaS
Google App Engine	✓	✓	PaaS
Google Compute Engine	✓	✓	IaaS

AaaE: Amazon as an Example

Product	Self Service	Multi-tenant	* aaS

AaaE: Amazon as an Example

Product	Self Service	Multi-tenant	* aaS
Amazon store	✓	x	Not *aaS, web-app

AaaE: Amazon as an Example

Product	Self Service	Multi-tenant	* aaS
Amazon store	✓	✗	Not *aaS, web-app
aStore	✓	✓	SaaS

AaaE: Amazon as an Example

Product	Self Service	Multi-tenant	* aaS
Amazon store	✓	✗	Not *aaS, web-app
aStore	✓	✓	SaaS
Amazon Elastic Beantalk	✓	✓	PaaS

AaaE: Amazon as an Example

Product	Self Service	Multi-tenant	* aaS
Amazon store	✓	✗	Not *aaS, web-app
aStore	✓	✓	SaaS
Amazon Elastic Beantalk	✓	✓	PaaS
Amazon Elastic Cloud	✓	✓	IaaS

SaaS pains

Multi-tenancy

Java SE 9 (and beyond…)

Cloud	• Multi-tenancy support • Resource management

ORACLE

Looks good! When to expect?

There's not a moment to lose!

Mark Reinhold

Chief Architect, Java Platform Group at Oracle

San Francisco Bay Area | Computer Software

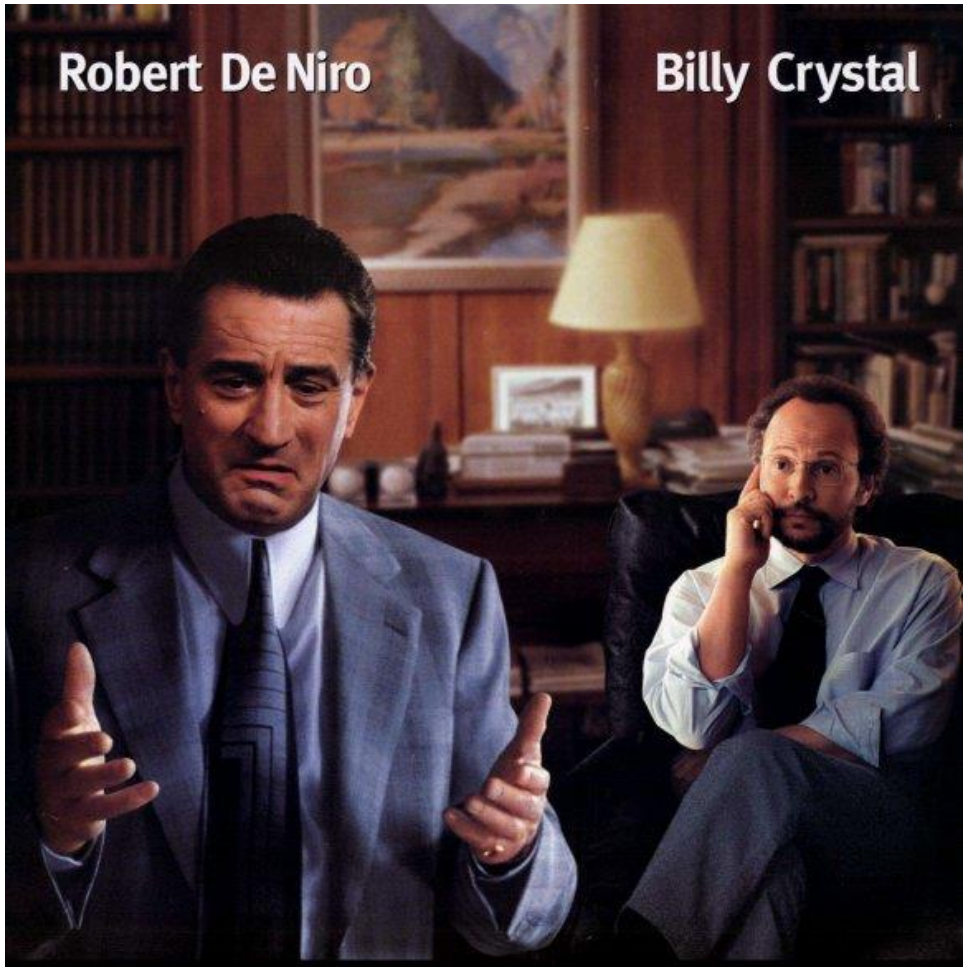
It's time for ... Plan B

2010/09/20 16:42:59 -07:00

In my previous entry I described two plausible plans for moving forward with JDK 7:

Plan A:	JDK 7 (as currently defined)	Mid 2012
Plan B:	JDK 7 (minus Lambda, Jigsaw, and part of Coin)	Mid 2011
	JDK 8 (Lambda, Jigsaw, the rest of Coin, ++)	Late 2012

Thanks to everyone who responded to that entry, both directly and indirectly. The responses feedback was strongly skewed, not surprisingly, in favor of



Extrapolate This

GIVEN:

RELEASE JAVA 7 07/2011

RELEASE JAVA 8 12/2012

GIVEN:
RELEASE JAVA 7 07/2011
RELEASE JAVA 8 12/2012

FIND:
RELEASE JAVA 9?

JAVA 8: 12/2012

JAVA 8: 12/2012

–

JAVA 7: 07/2011

JAVA 8: 12/2012

-

JAVA 7: 07/2011

=

15 MONTHS CYCLE

JAVA 8: 12/2012

-

JAVA 7: 07/2011

=

15 MONTHS CYCLE

CONCLUSION: JAVA 9:
05/2013

It's almost a year ago!
Oh, wait...
Java 8 is not out yet!

CONC
05/20

Observation: When Mark writes about trains it means release delay

Here you go:

There's not a moment to lose!

Mark Reinhold's Blog

Project Jigsaw: Late for the train

2012/07/17 08:58:00 -07:00

The aim of Project Jigsaw is to design and implement a standard module system for the Java SE Platform, and to apply that system to the Platform itself and to the JDK.

Jigsaw is currently slated for Java 8. The proposed development schedule for Java 8 expects work on major features to be finished by May 2013, in preparation for a final release around September. Steady progress is being made, but some significant technical challenges remain. There is, more importantly, not enough time left for the broad evaluation, review, and feedback which such a profound change to the Platform demands.

I therefore propose to defer Project Jigsaw to the next release, Java 9. In order to increase the predictability of all future Java SE releases, I further propose to aim explicitly for a regular two-year release cycle going forward.

JAVA 7: 07/2011

JAVA 7: 07/2011

+ 24 MONTHS =

JAVA 7: 07/2011

+ 24 MONTHS =

JAVA 8: 07/2013

You wish!

There's not a moment to lose!

Mark Reinhold's Blog

Java 8: Secure the train

2013/04/18 08:48:37 -07:00

Security vulnerabilities related to Java running inside web browsers have lately received a lot of public attention. Here at Oracle we've mounted an intense effort to address those issues in a series of critical-patch update releases, the most recent of which we posted earlier this week. We've also upgraded our development processes to increase the level of scrutiny applied to new code, so that new code doesn't introduce new vulnerabilities.

Features vs. schedule I've previously argued that it's best to structure the Java development process as a continuous pipeline of innovation that's only ception to the general policy is therefore well justified.

If we adopt my proposal above then we should be able to complete the browser-related security work to which we've committed and then resume a regular two-year release cadence, with Java 8 due in early 2014 and Java 9 in early 2016.

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

JAVA 8: 07/2013

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

WHATEVER MARK SAYS

JAVA 8: 01/2014

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

WHATEVER MARK SAYS

JAVA 8: 01/2014

+ 24 MONTHS =

JAVA 9: 01/2016

You think this is it?

There's not a moment to lose!

Mark Reinhold's Blog

Java 8: Hold the train

2013/04/26 09:44:25 -07:00

Last week I proposed to delay the release of Java 8 in order to finish Project Lambda, which has been delayed due to Oracle's renewed focus on the security of the Java Platform.

Thanks to everyone who responded to that proposal, in comments on my blog entry, on Twitter, and elsewhere. The feedback was generally in favor, though understandably tinged with disappointment. As of today we have a new plan of record: The target release date for Java 8 is now 2014/3/18.

Further schedule details are available on the JDK 8 Project pages.

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

WHATEVER MARK SAYS

JAVA 8: 03/2014

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

WHATEVER MARK SAYS

JAVA 8: 03/2014

+ 24 MONTHS =

JAVA 7: 07/2011

~~+ 24 MONTHS =~~

WHATEVER MARK SAYS

JAVA 8: 03/2014

+ 24 MONTHS =

JAVA 9: 03/2016

JAVA 7: 07/2011

~~+ 24 MONTHS =~~ WHATEVER MARK SAYS

JAVA 8: 03/2014

+ 24 MONTHS =

JAVA 9: 03/2016

(IF NO MORE TRAIN BLOG POSTS)

DAMN, THAT'S HALF A YEAR
LATER THAN HOOVERBOARDS!

THANK YOU,
WE'LL MANAGE.

Multi-tenancy types

Multi-tenancy Type

Multi-tenancy types

Multi-tenancy Type
Data Separation

Multi-tenancy types

Multi-tenancy Type
Data Separation
Application Separation

Multi-tenancy types

Multi-tenancy Type
Data Separation
Application Separation
Process Separation

GaaE for Multi Tenancy types

Product	Multi-tenancy Type

GaaE for Multi Tenancy types

Product	Multi-tenancy Type
Google Apps	Data Separation

GaaE for Multi Tenancy types

Product	Multi-tenancy Type
Google Apps	Data Separation
Google App Engine	Application Separation

GaaE for Multi Tenancy types

Product	Multi-tenancy Type
Google Apps	Data Separation
Google App Engine	Application Separation
Google Compute Engine	Process Separation

Let’s compare!

Strategy	Pros	Cons
Separating data		
Separating application		
Separating processes		

Let’s compare!

Strategy	Pros	Cons
Separating data	✓ Normal Java Application	
Separating application		
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Strategy	Pros	Cons
Separating data	✓ Normal Java Application	× Manual state separation × Complicated and critical schema
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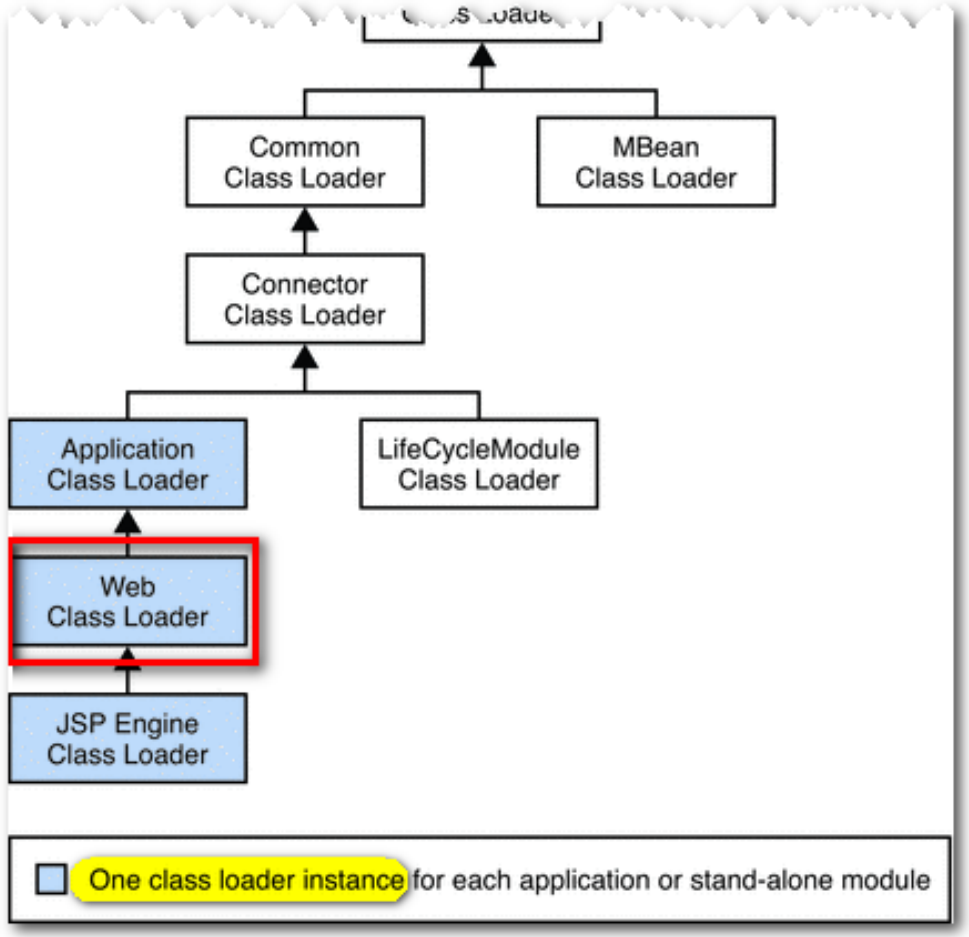
Separating processes	✓ No shared state ✓ Simple transition from existing	× JVM per tenant!

Separate WARs: Tomcat Root

```
├── lib
├── webapps
│   ├── customer-name
│   ├── other-customer-name
│   └── many other customers
└── other dirs (bin, conf, log, etc)
```

WARs of the tenants

Separate WARs

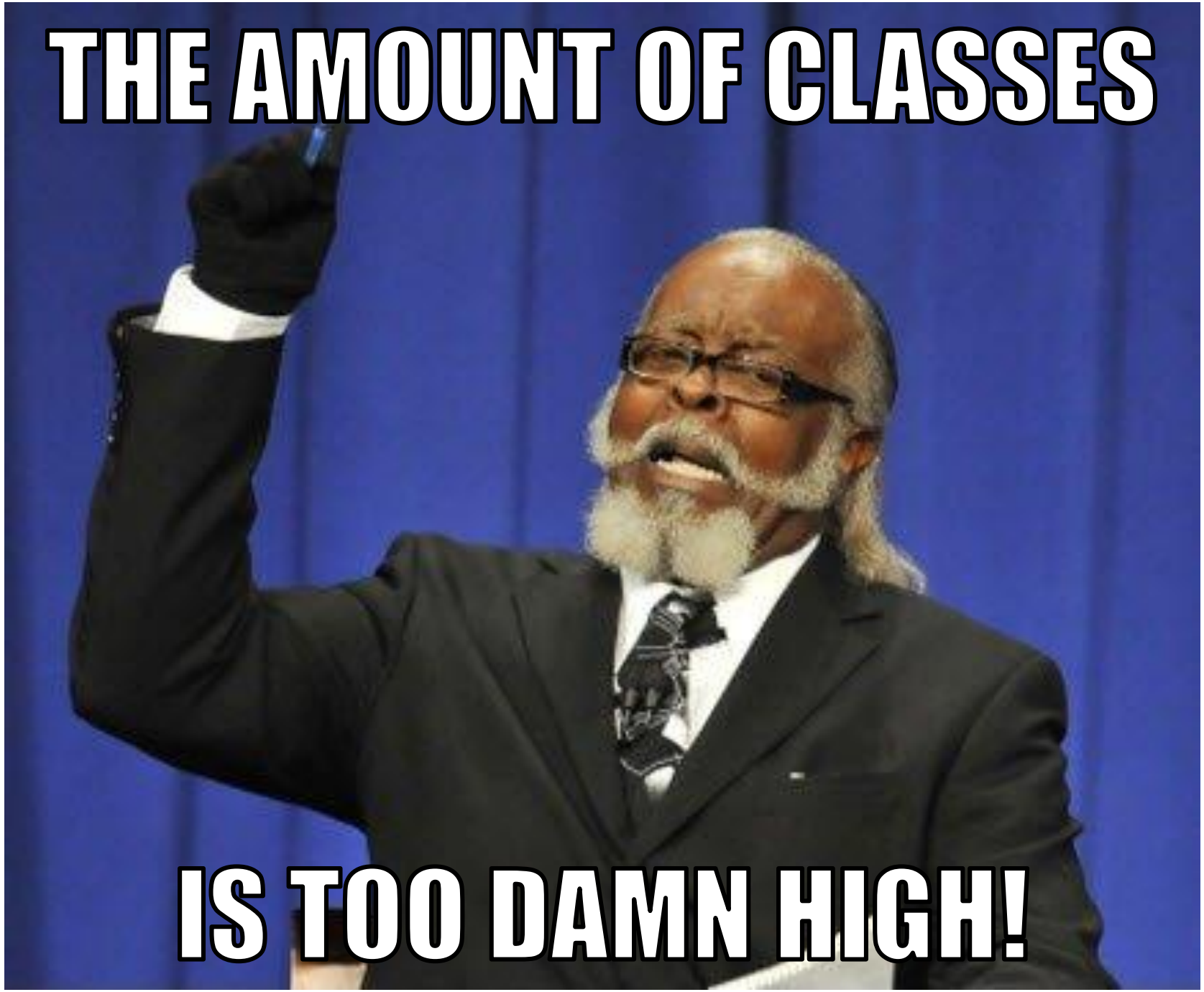


Separate WARs

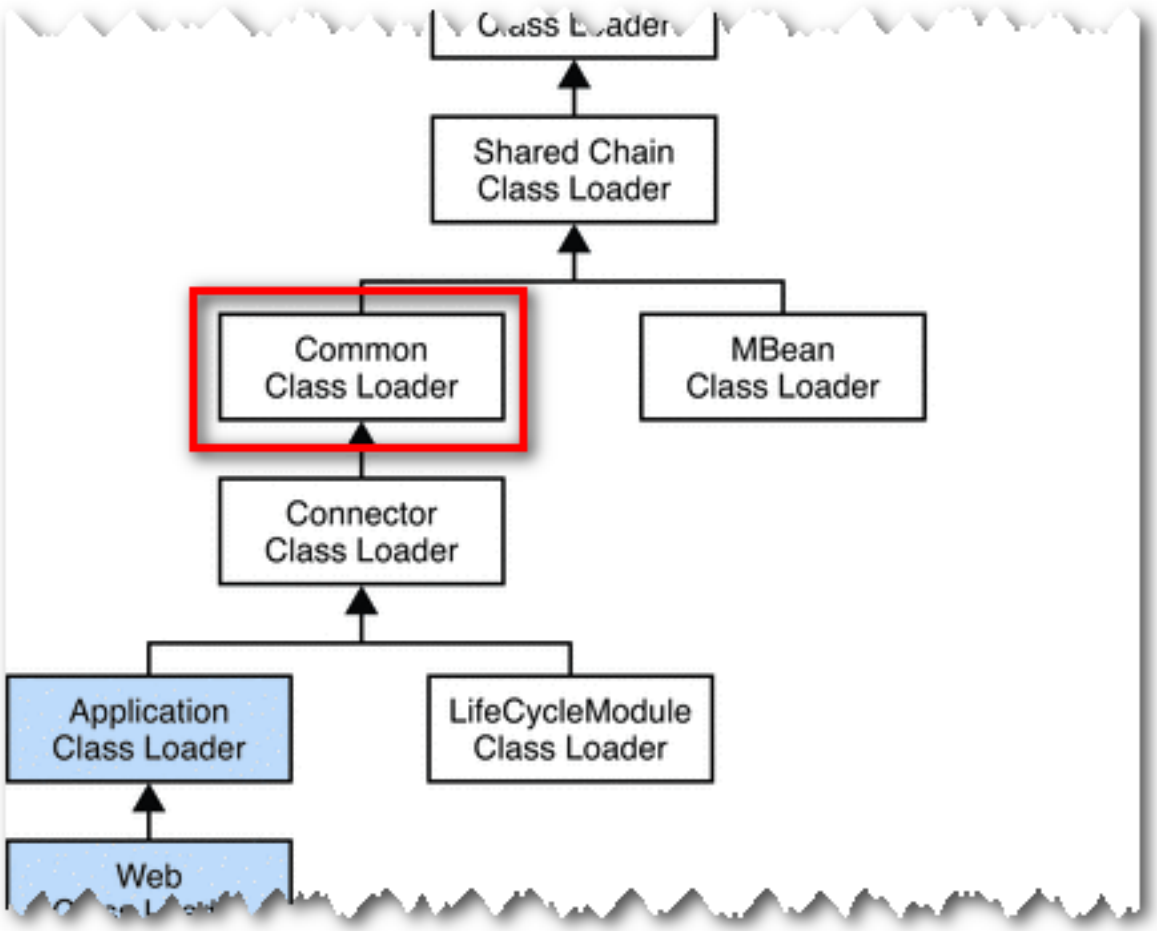
We love our toys

```
Artifactory-3.0.1.war\webapp\WEB-INF\lib$du -m
51      .
```

51 MB of toys…


THE AMOUNT OF CLASSES
IS TOO DAMN HIGH!

To the common ClassLoader!



WILL IT WORK?

WILL IT WORK?

- OBJECT STATE

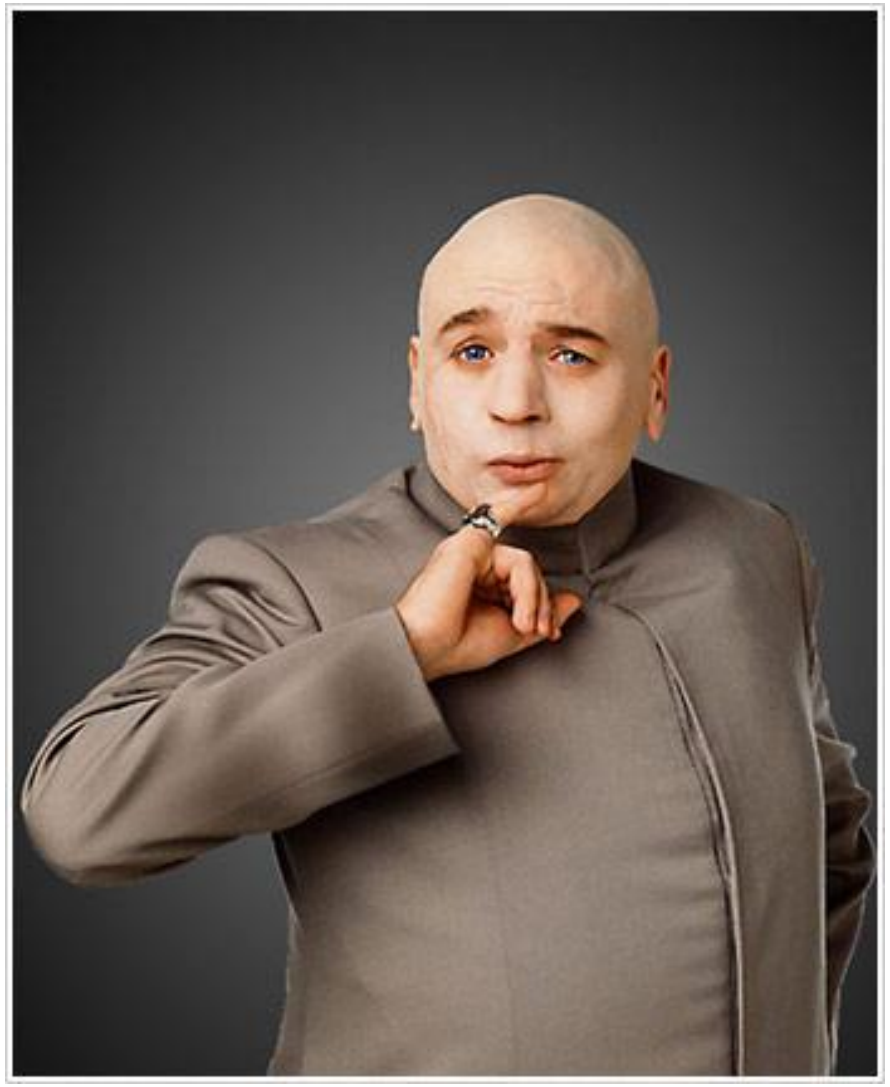
WILL IT WORK?

- OBJECT STATE
- STATIC STATE

“Static State Quest I”
(Sierra, who else?)

Spring Framework

The Evil
App. Context Holder Pattern



The Evil App. Context Holder Pattern

```
public class AppCtxHolder implements ApplicationContextAware  {
        private static ApplicationContext ctx;

        public AppCtxHolder() { }

        public void setApplicationContext(ApplicationContext applicationContext) {
                ctx = applicationContext;
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        public static ApplicationContext getApplicationContext() {
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Apache Wicket

Apache Wicket

We love Wicket,
cause it allows
people who hate
UI development
to develop a UI,
which people
don’t hate

Apache Wicket

Logger

Logger

CATS Software

Jackrabbit

Jackrabbit

Heap-wide Caches

Don’t actually have to read this

Tomcat Root – Where are the JARs?

```
├── lib
├── webapps
│   ├── customer-name
│   │   ├── favicon.ico
│   │   ├── META-INF
│   │   └── WEB-INF
│   │       ├── web.xml
│   │       └── classes
│   │           └── DUMMY.TXT
│   ├── other-customer-name
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│   │   │   └── META-INF
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Tenant WAR

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Tenant WAR

Look ma, no JARs, nor classes!

Tomcat Root – Global lib folder

```
┌── lib
│   ├── artifactory
│   │   ├── artifactory-*.jar
│   │   ├── jackrabbit-core-jfrog-2.2.8c.jar
│   │   ├── spring-core-3.1.1.RELEASE.jar
│   │   ├── wicket-core-1.5.3.jar
│   │   └── other jars
│   ├── catalina.jar
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Global lib

Artifactory JARs

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Global lib

Artifactory JARs

The toys

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Global lib

Artifactory JARs

The toys

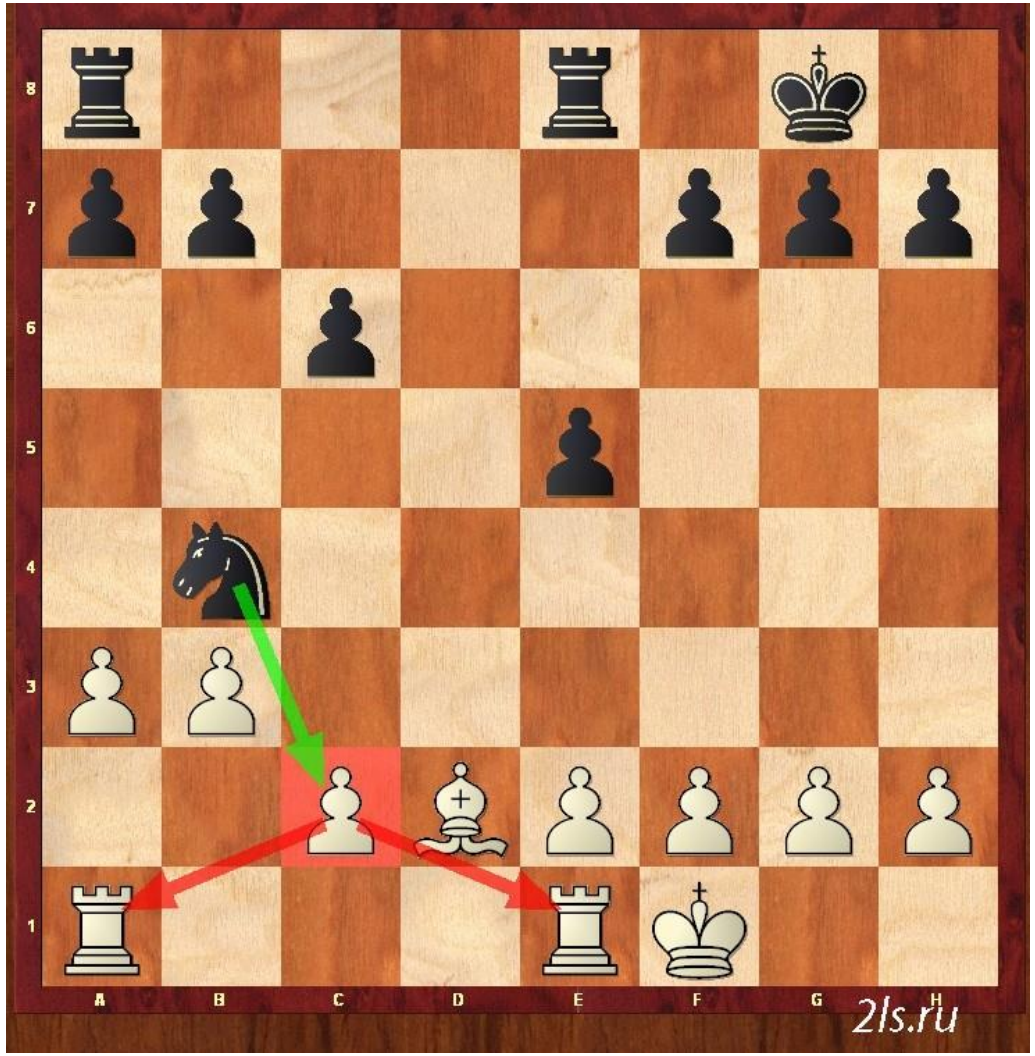
Tenants WARs (no JARs)

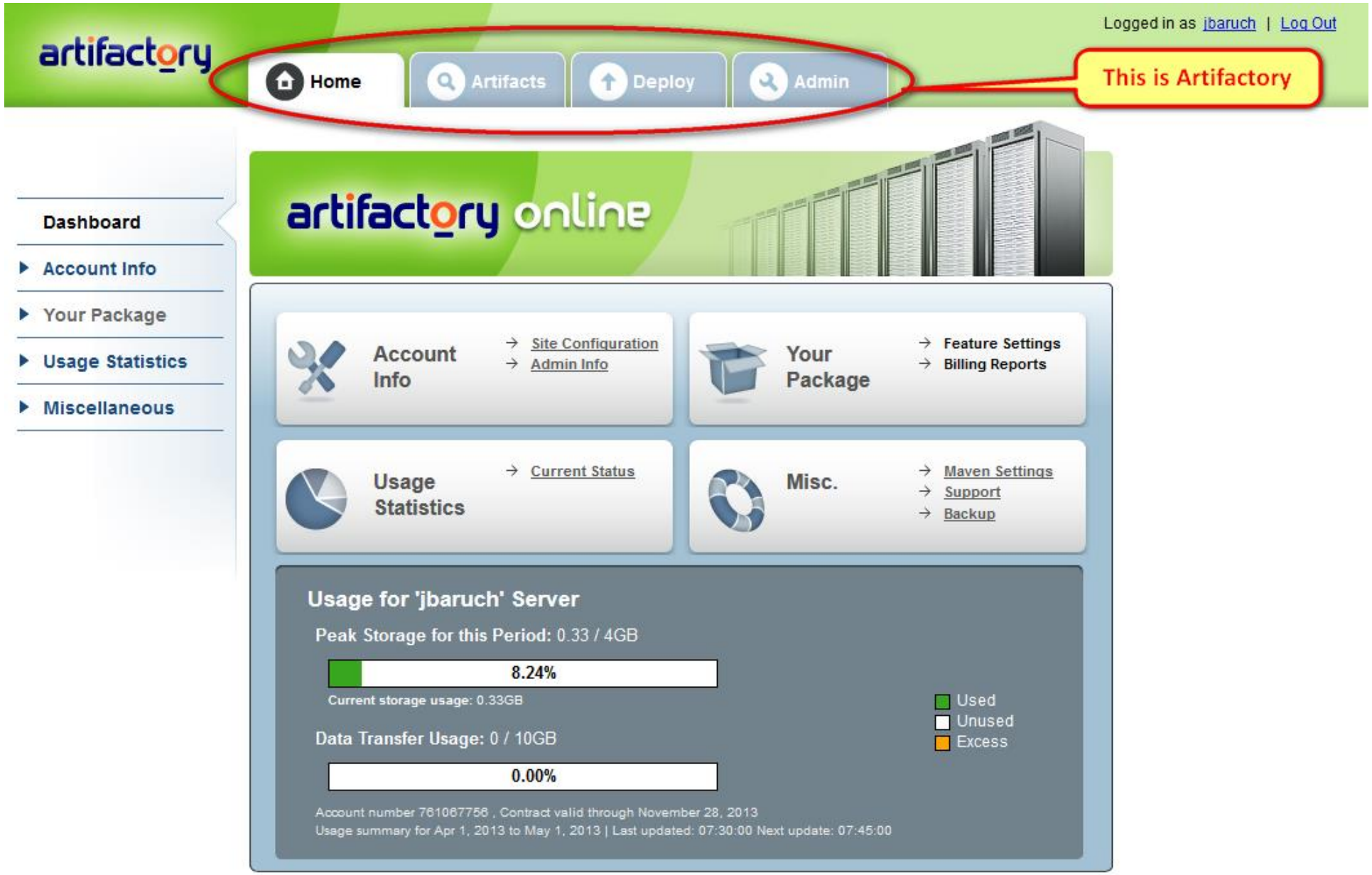
PaaS or IaaS?

PaaS or IaaS?

Self-Service?

Prevent the Fork!




artifactory
Logged in as jbaruch | Log Out
Home
Artifacts
Deploy
Admin
This is Artifactory
Dashboard
Account Info
Your Package
Usage Statistics
Miscellaneous
artifactory online
Account Info
Site Configuration
Admin Info
Your Package
Feature Settings
Billing Reports
Usage Statistics
Current Status
Misc.
Maven Settings
Support
Backup
Usage for 'jbaruch' Server
Peak Storage for this Period: 0.33 / 4GB
8.24%
Current storage usage: 0.33GB
Data Transfer Usage: 0 / 10GB
0.00%
Used
Unused
Excess
Account number 761067756 , Contract valid through November 28, 2013
Usage summary for Apr 1, 2013 to May 1, 2013 | Last updated: 07:30:00 Next update: 07:45:00

artifactory

Logged in as jbaruch | Log Out

Home | Artifacts | Deploy | Admin

This is not.

- Dashboard
- Account Info
- Your Package
- Usage Statistics
- Miscellaneous

artifactory online

Account Info
- Site Configuration
- Admin Info

Your Package
- Feature Settings
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Usage Statistics
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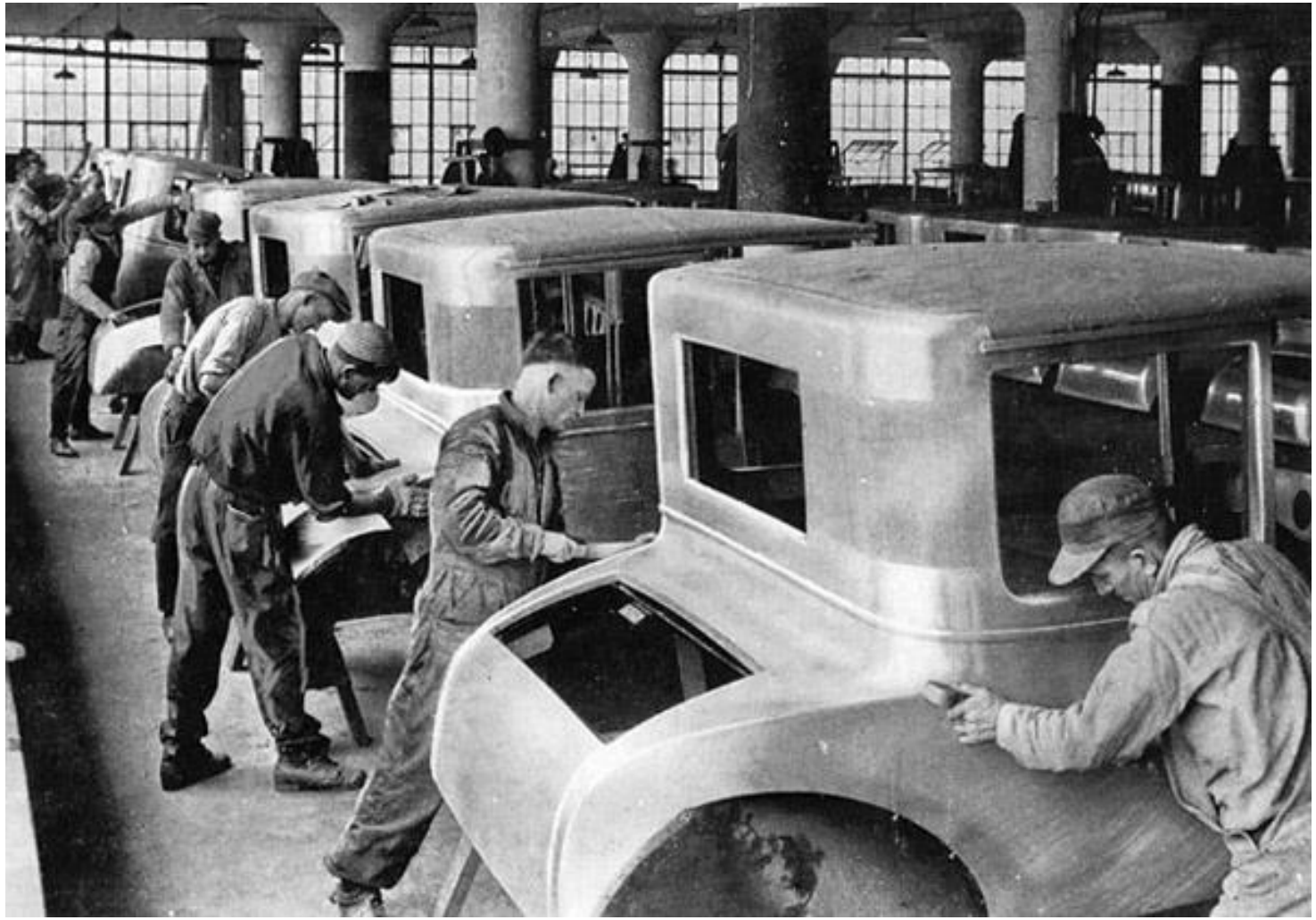


2 RVP100 465 3 RVP100
DIVERSITY...
WE HAVE SOME!
quickmeme.com

Artifactory is built with Artifactory!

The Process

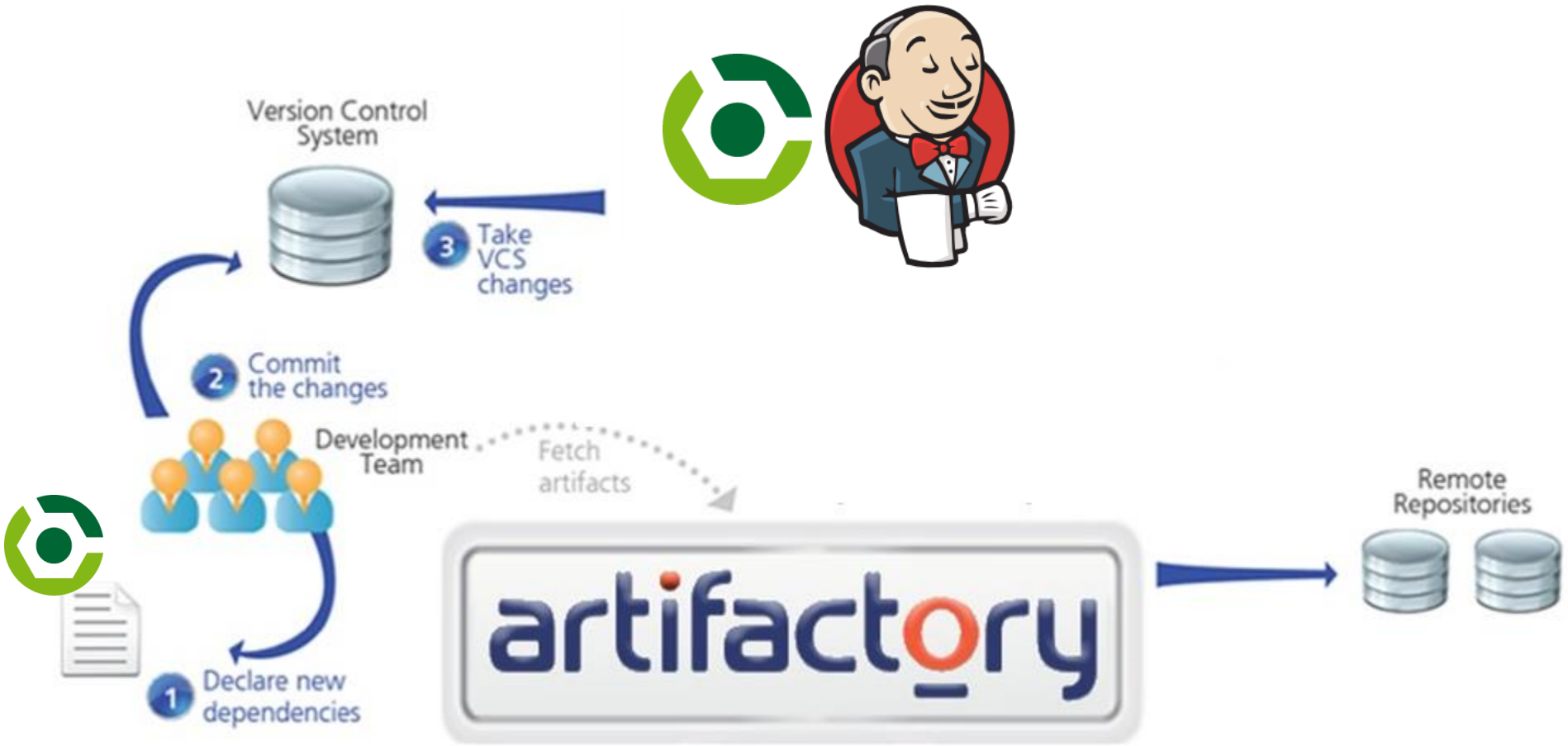
The Process

Development Team
Fetch artifacts
1
Declare new dependencies
artifactory
Remote Repositories

The Process

Version Control System
2 Commit the changes
Development Team
Fetch artifacts
1 Declare new dependencies
artifactory
Remote Repositories

The Process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artifactory
Remote Repositories

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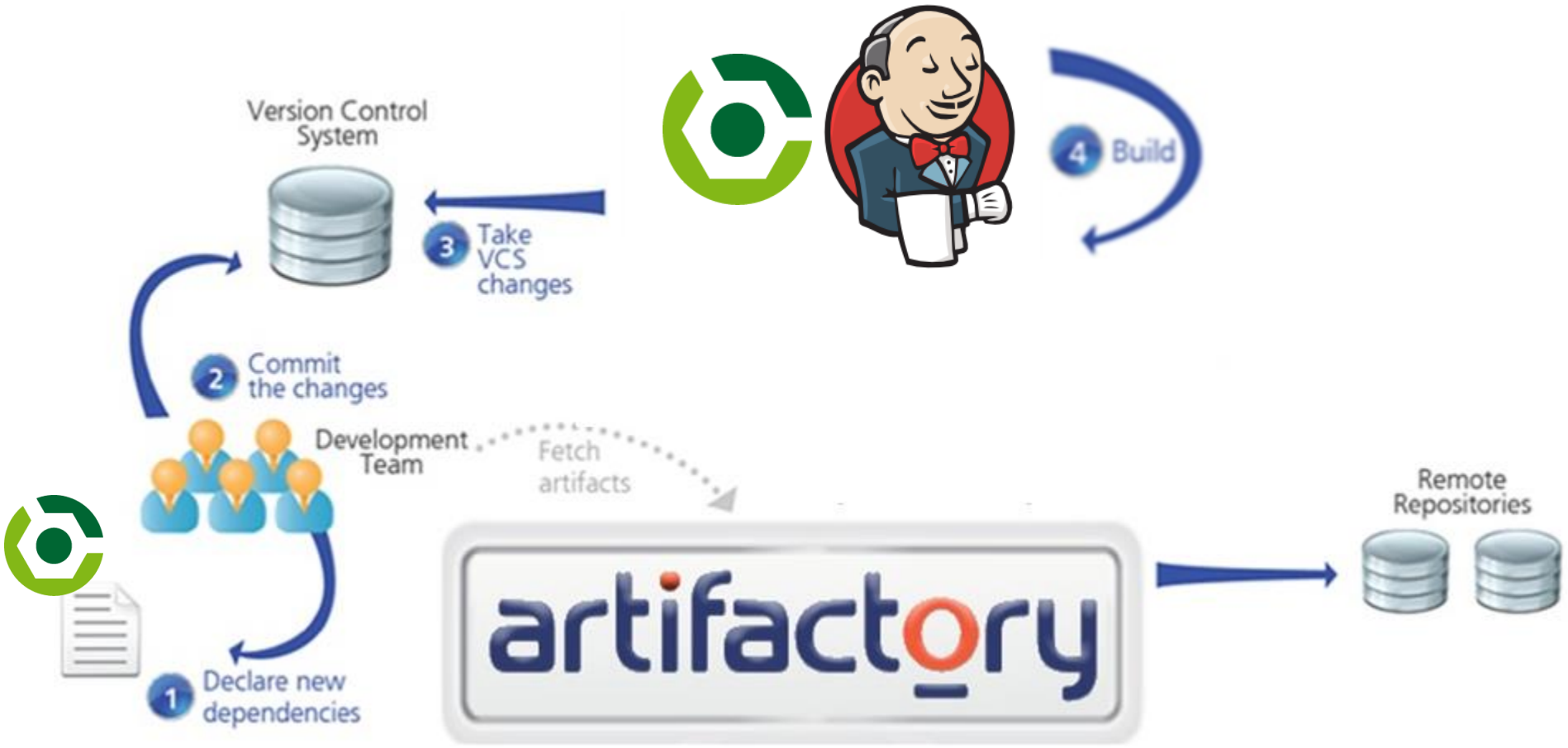
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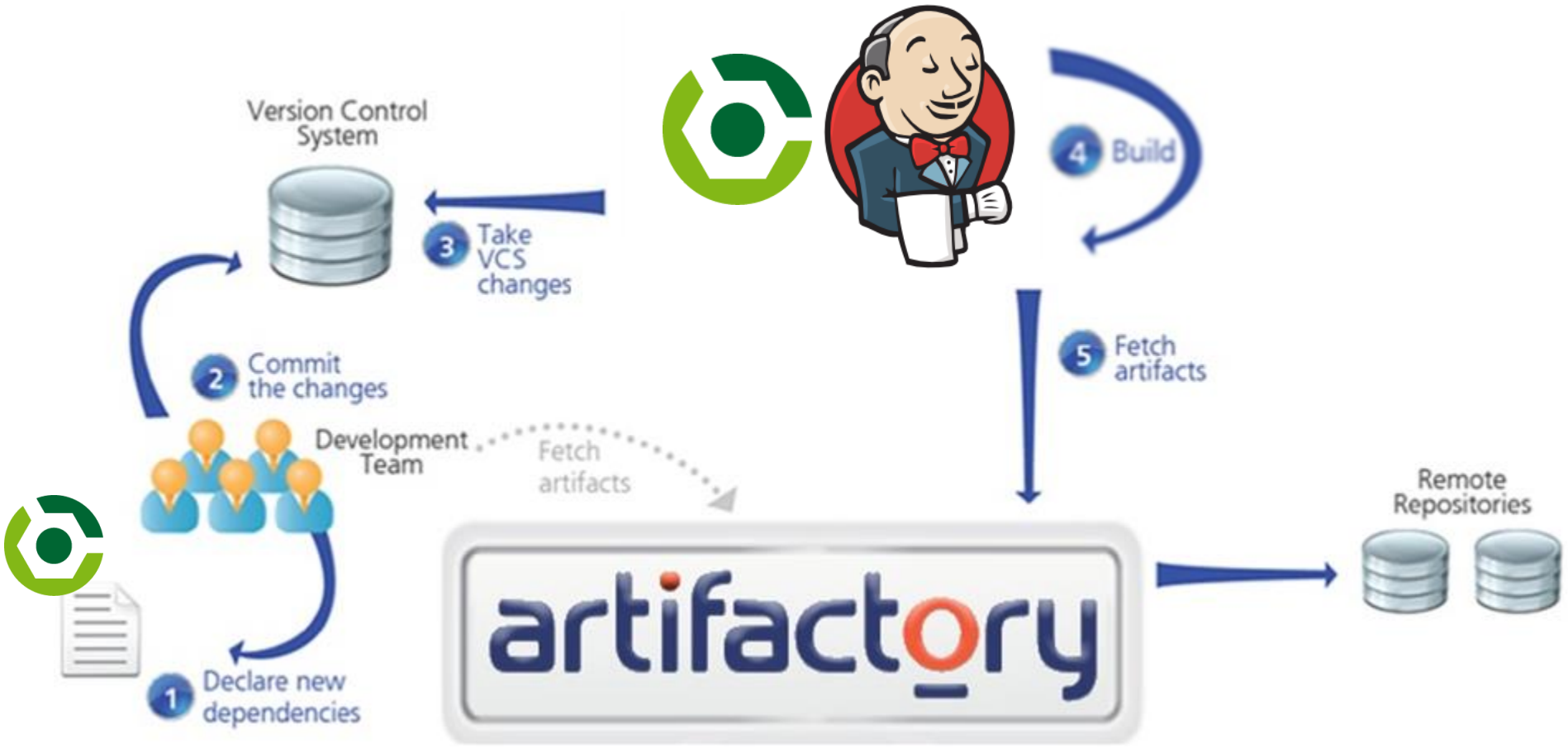
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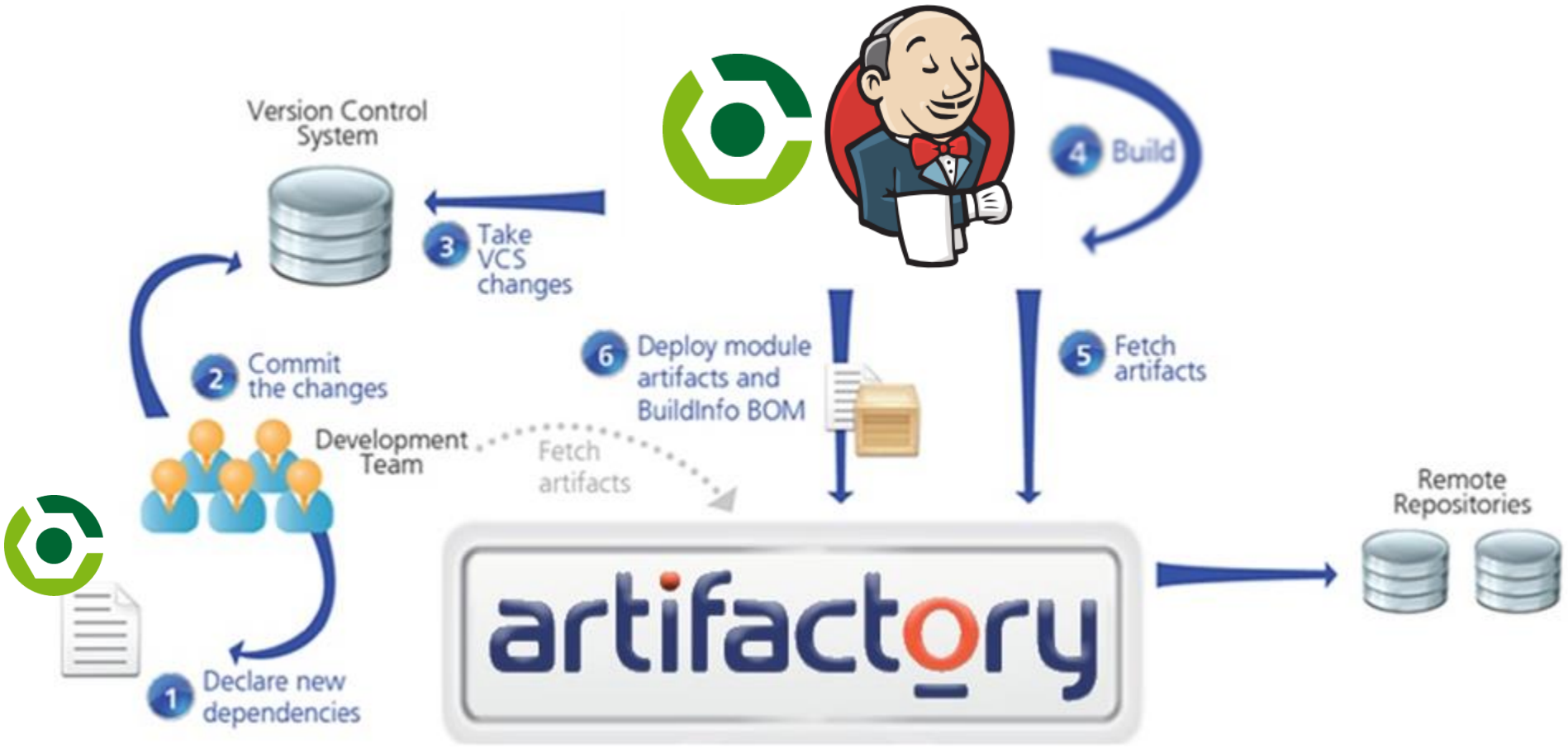
Version Control System
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Remote Repositories
artifactory
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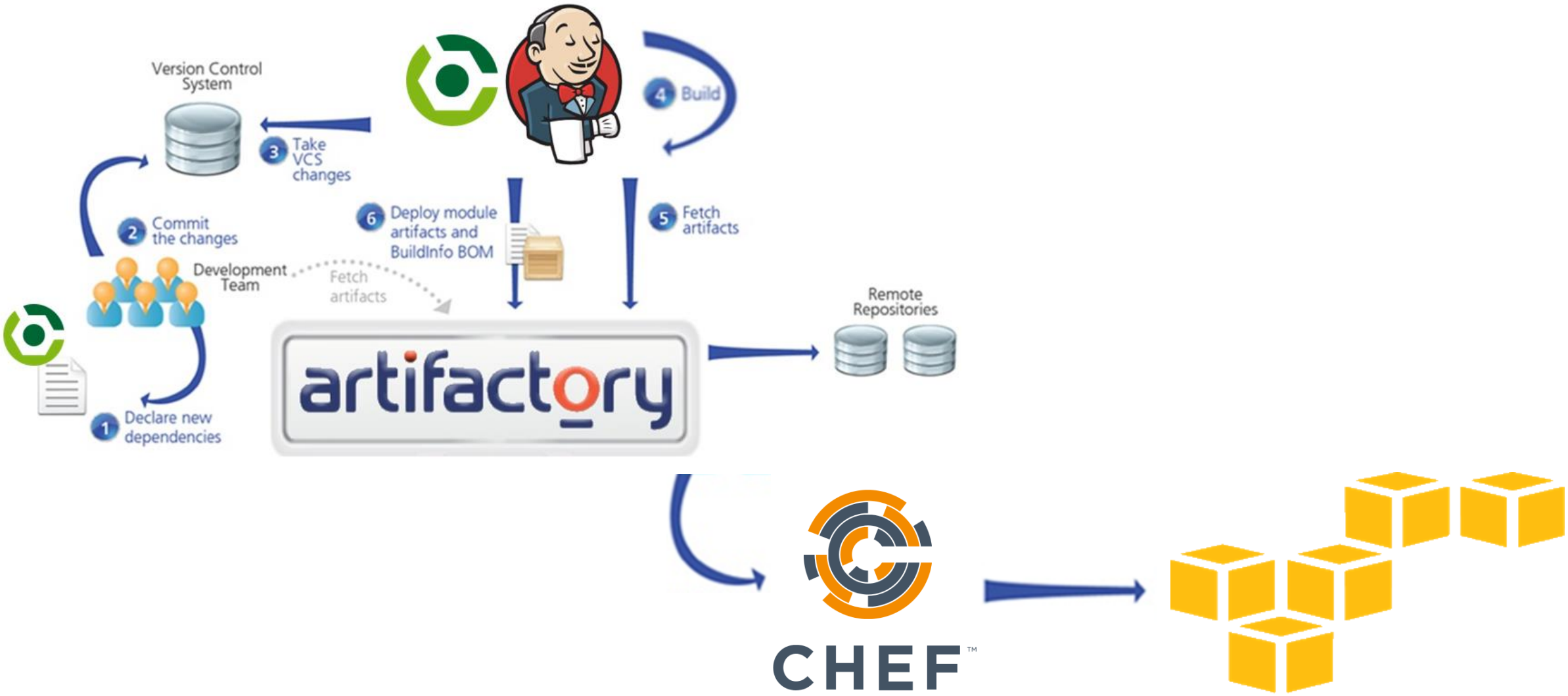
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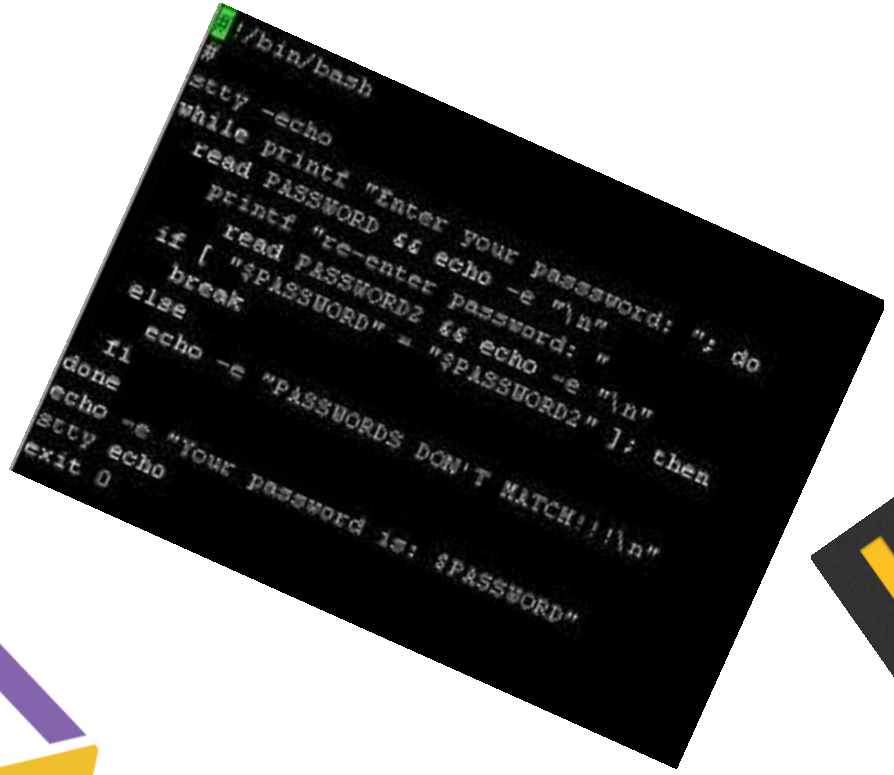
CHEF

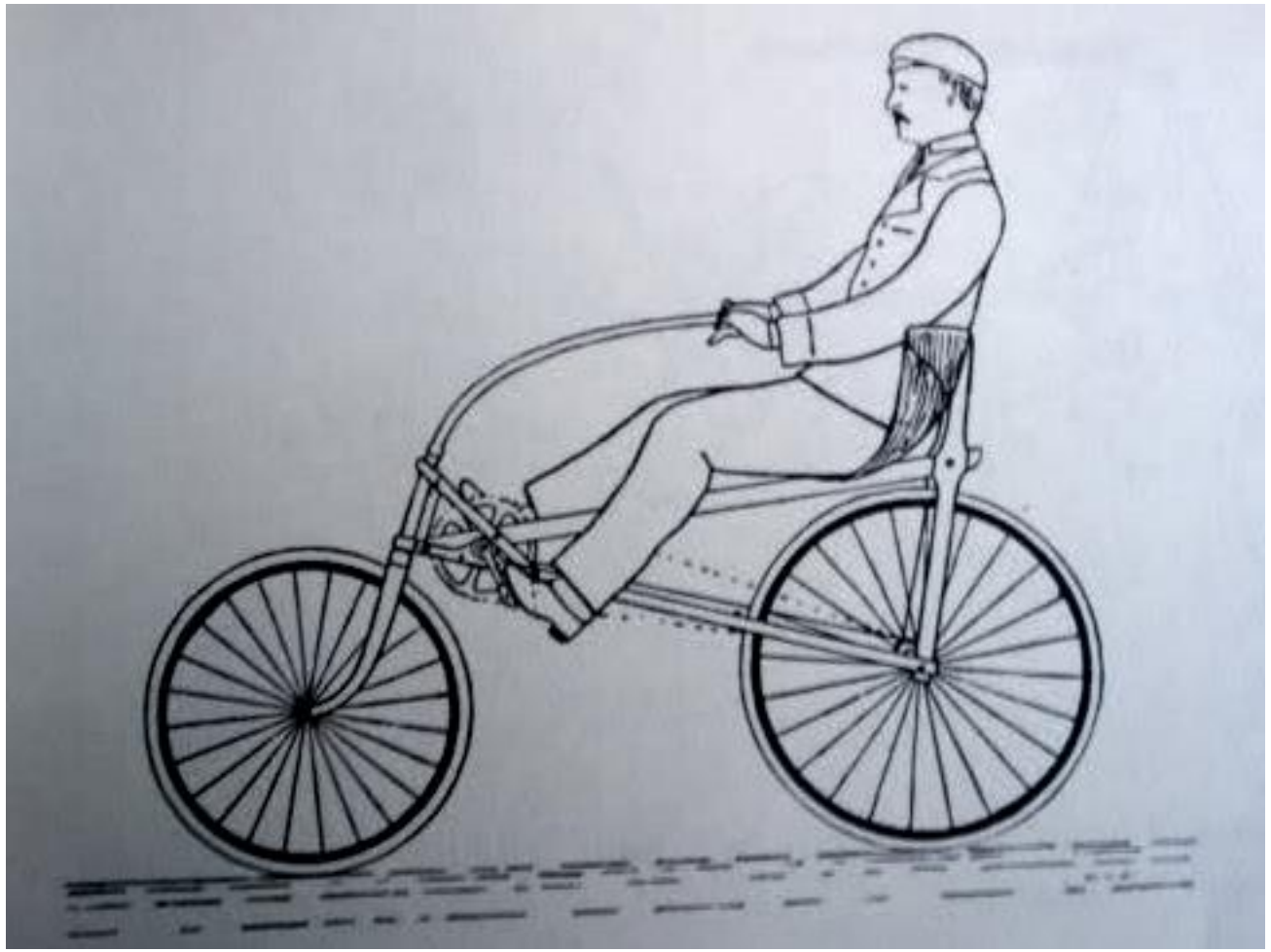
It’s all about right tools

Also right tools



The Paradigm…

Now we do it the other way around



Actually, now we do it the right way!

And we love what we got!

NO, THANK YOU!