



RubyGems on Steroids







Fred Simon JFrog

www.jfrog.com

@jenkinsconf

Who's TALKING?

Sithub.com/freddy33 @freddy33 Fred Simon (1st) 298 connections · 2 recommendations Current Co-Founder and Chief Architect at JFrog Ltd less

Bouyques, Developer at SGT less, Developer













JFrog Ltd

Home

Products & Services

Insights

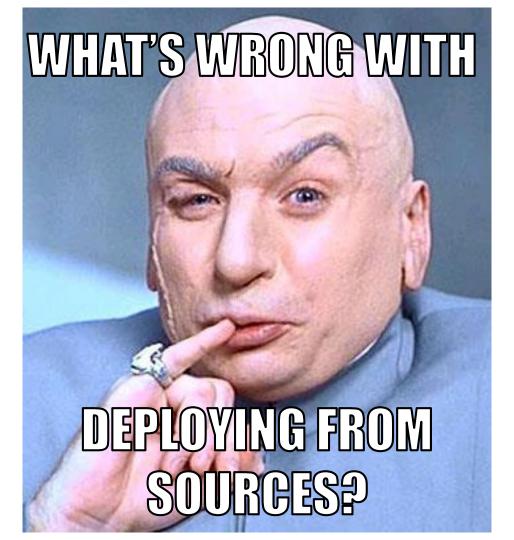
Analytics

Artifactory Repository Manager Product Overview

The First Binary Repository Manager

Artifactory, JFrog's flagship product. It is an enterprise-grade Binary Repository Manager that central all aspects of managing software binaries. It is deployed per server serving teams of developer





Subject: [ruby-talk:00247] Ruby Application Arvhive
From: Manpreet Singh <manpreet.singh sun.com>
Date: Wed, 10 Mar 1999 14:07:15 -0800
Hi,
Does anybody know if there is a plan to create a CPAN (perl) like archive for ruby modules and having a

perl -MCPAN -e shell
like facility?

Manpreet

Thanks

RubyConf 2001 - Conference Notes

Disclaimer: Please excuse my horrid pictures. Hopefully, someone else took some decent ones and can send them in for inclusion.

Thursday, Oct. 11, 2001

The conference hadn't officially begun, but a notable amount of people arrived by Thursday evening. We met in the hotel lounge for some light conversation

Firstly, Brian Marick started handing out cow magnets, which dominated conversation for the rest of the evening (and then some), and also managed to del

Other thancom pagests the perintopies of conversation were:

RubyGems - Ryan Leavengood



Just when we thought the fun was winding down, Ryan Leavengood (who, incidentally helped out with the fabulous t-shirts) stole the show with a demo are very similar to Java's jar files.

Currently, RubyGems can package pure Ruby libraries so that they will be loaded from a single file. Ryan has overridden "require" and "load" to pull code done.". He was able to demonstrate the creation of a RubyGem archive—demoing with NQXML—and the usage of that archive from another program.

RubyConf 2001

RubyGems

Something similar to Java Jars:

Ability to pack Ruby libraries so that they will be loaded from a single file

LET'S BUILD SOME GEMS!

1. Take sources

Take sources – OK

- Take sources OK
- 2. Bring dependencies

- Take sources OK
- 2. Bring dependencies where from?

- Take sources OK
- 2. Bring dependencies where from?
- 3. Build binaries

- Take sources OK
- 2. Bring dependencies where from?
- 3. Build binaries OK

- Take sources OK
- 2. Bring dependencies where from?
- 3. Build binaries OK
- 4. ...

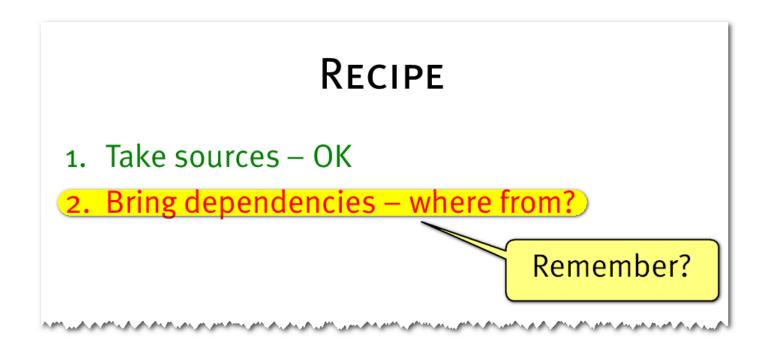
- Take sources OK
- 2. Bring dependencies where from?
- 3. Build binaries OK
- 4. ... now what?

HERE COMES THE BINARY REPOSITORY

WHAT IS BINARY REPOSITORY



BINARY REPOSITORY AS MODULES SOURCE



RubyGems.org



About what this is

Welcome to RubyGems.org, the Ruby community's gem hosting service. The purpose of this project is three-fold:

- 1. Provide a better API for dealing with gems
- 2. Create more transparent and accessible project pages
- 3. Enable the community to improve and enhance the site



heroku status current status and incident report

Ruby deploys temporarily degraded

Development 14h

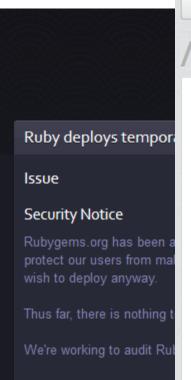
Issue

Security Notice

Rubygems.org has been affected by a recent YAML parsing vulnerability. Ruby deploys have been temporarily disabled to protect our users from malicious gems. We will have more information available shortly, including a workaround for those who wish to deploy anyway.

Thus far, there is nothing to suggest that any widely used gems have been altered.

We're working to audit Rubygems changes and will have updates throughout the day.



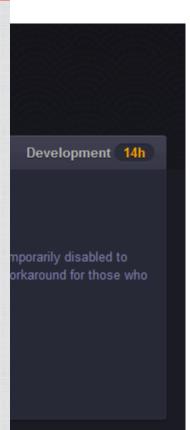


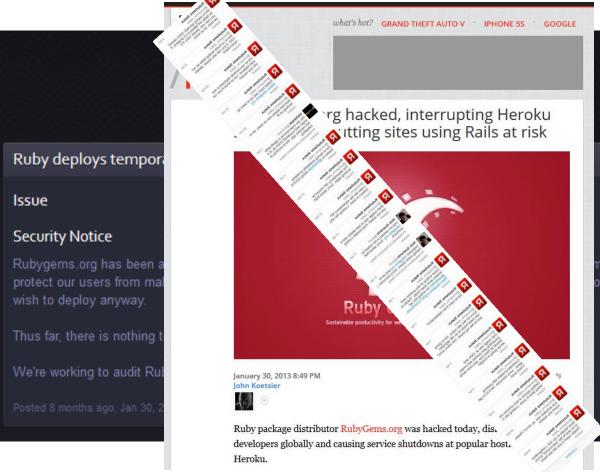
RubyGems.org hacked, interrupting Heroku services and putting sites using Rails at risk

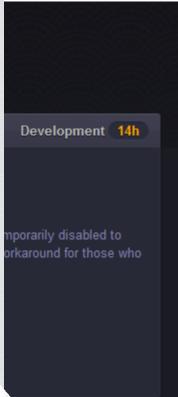


January 30, 2013 8:49 PM 6 Comments
John Koetsier

Ruby package distributor RubyGems.org was hacked today, disrupting web developers globally and causing service shutdowns at popular hosting service Heroku.









Questions

Tags

Users

Badges

Unanswered

Where can I install gems from when rubygems.org is down?



Currently Rubygems.org is down - the website reports an error, and a few gem install tasks are returning 500 errors.



Is there a mirror / backup source of gem files, or is rubygems.org essentially a single point of failure within the ruby gem installation process ?



ruby gem

share | edit | flag



Wouldn't mind knowing this myself. It looks like the whole of rubygems.org in down - what a pain. - Dom ₹ Jan 1 '12 at 13:37



Questions

Users

Badges

Unanswered

What to do when rubygems.org is down?



I have to setup a rails project and rubygems.org is seemed to be down. That's really horrible. Can't believe it the whole ruby community have only one single not-so-reliable gems source. What should I do in such case?



ruby-on-rails rubygems bundler

share | edit | flag

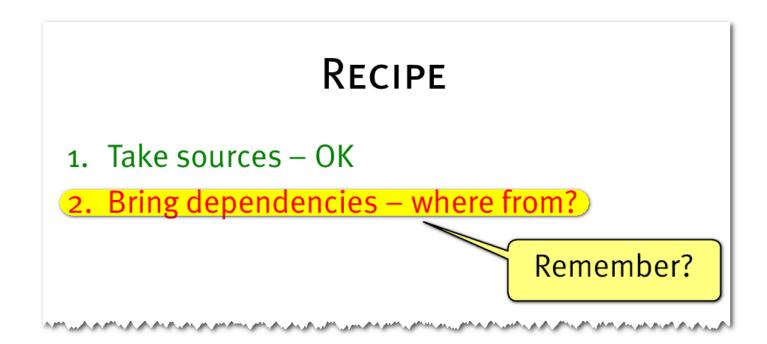
asked Feb 18 '12 at 1:03 Phương Nguyễn 2,492 • 5 • 23 • 51

add comment

start a bounty

YOU GOT THE IDEA, YOU CAN'T RELY ON RUBYGEMS.ORG

LET'S TRY IT AGAIN...



BINARY REPOSITORY AS MODULES SOURCE

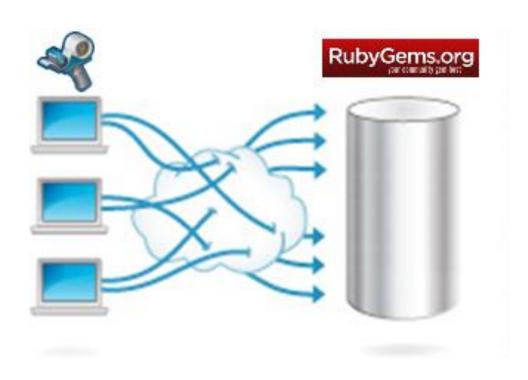


Hint!

BINARY REPOSITORY AS MODULES SOURCE



BEFORE



AFTER



BINARY REPOSITORY AS DEPLOYMENT TARGET

RECIPE

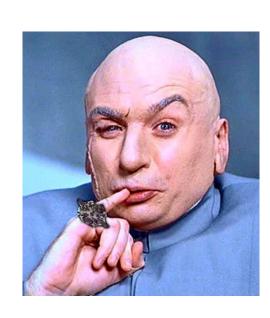
- Take sources OK
- 2. Bring dependencies where from?
- 3. Build binaries OK
- 4. ... now what?

Remember?

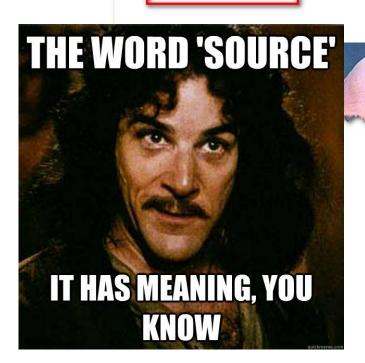
BINARY REPOSITORY AS DEPLOYMENT TARGET



WAIT A MINUTE, WHAT'S WRONG WITH MY SOURCE CONTROL SYSTEM?!



WAIT A MINUTE, WHAT'S WRONG WITH MY SOURCE CONTROL SYSTEM?!



Sources

Binaries

Sources	Binaries
Text	Blob

Sources	Binaries
Text	Blob
Diffable	Not diffable

Sources	Binaries
Text	Blob
Diffable	Not diffable
Versioned by content	Versioned by name

Sources	Binaries
Text	Blob
Diffable	Not diffable
Versioned by content	Versioned by name
Stored by override	Should never override

Text

MyPoem.txt (rev. 01)

More Text

MyPoem.txt (rev. 02)

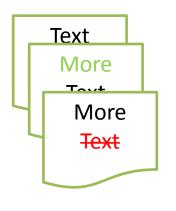
More Text

MyPoem.txt (rev. 03)

More

MyPoem.txt (HEAD)

MISMATCH



MyPoem.txt

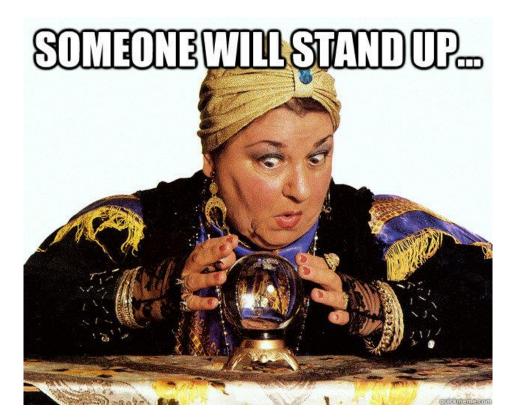


 MyBook-1.0.zip

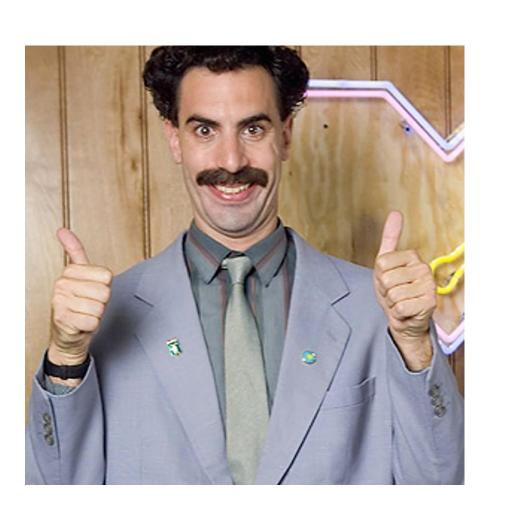
MyBook-1.1.zip

MyBook-2.0.zip





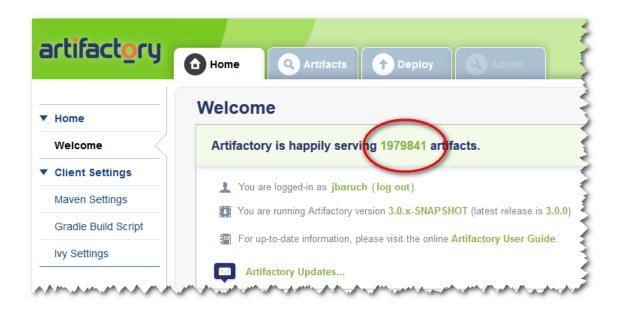




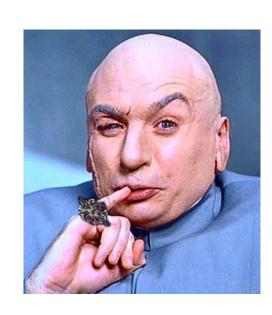
GIT IS A DISTRIBUTED SYSTEM



R U SURE U WANT 2 CLONE IT ALL?



OK THEN, BUT WHAT'S WRONG WITH MY FILE SERVER?!



RubyGems Guides

← PREVIOUS

 $NEXT \rightarrow$

Run your own gem server

There are times you would like to run your own gem server. You may want to share gems with colleagues when you are both without internet connectivity. You may have private code, internal to your organization, that you'd like to distribute and manage as gems without making the source publicly available.

Optimize storage size

Proxy other repositories

Optimize storage size

Proxy other repositories

Expose RESTAPI

Optimize storage size

Expose RESTAPI

Proxy other repositories Optimize storage size

Enforce Module Security

Proxy other repositories Expose RESTAPI Manage artifact lifecycle Manaso Manaso Optimize storage size Storage Size Storage Size Optimize Module Security

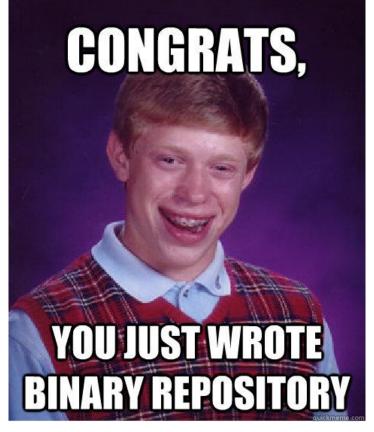
Proxy other repositories Expose RESTAPI Manage artifact lifecycle Cleanup SNAPSHOTS Manage Size
Optimize storage size

Enforce Module Security

Proxy other repositories Expose RESTAPI Manage artifact lifecycle Cleanup SNAPSHOTS tent Manage Size

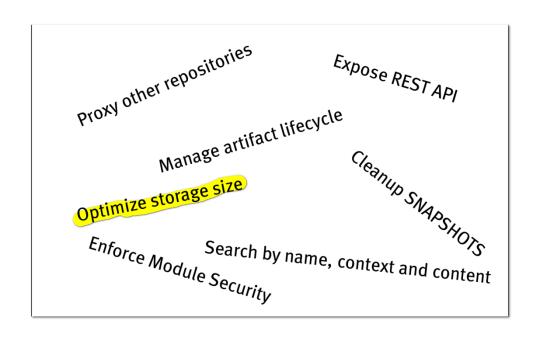
Optimize storage size

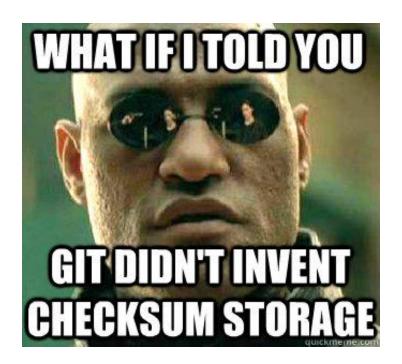
Enforce Module Security Search by name, context and content



BTW, How Many Years It Took?

OPTIMIZING STORAGE SIZE





MEET ARTIFACTORY

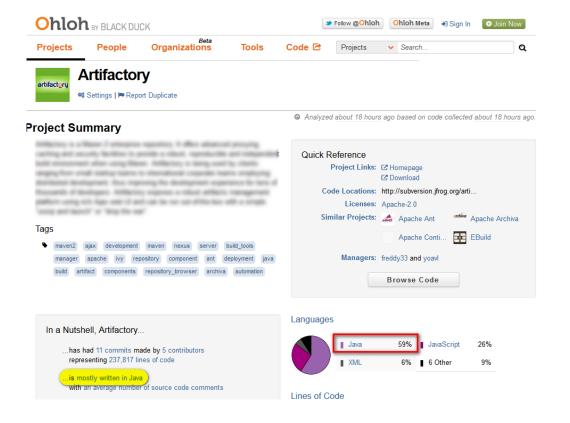






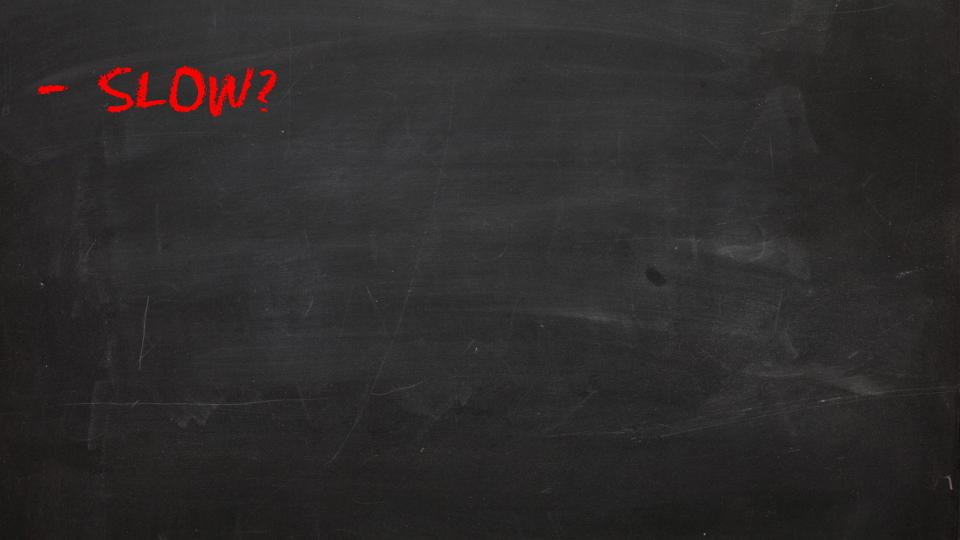


MEET ARTIFACTORY



JAVA? YUCK!





- FAST! - ON MODERN HOTSPOT

- FAST! - ON MODERN HOTSPOT - COMPLICATED?

- FAST!
 - ON MODERN HOTSPOT
- SOPHISTICATED!
 - DEPENDENCY

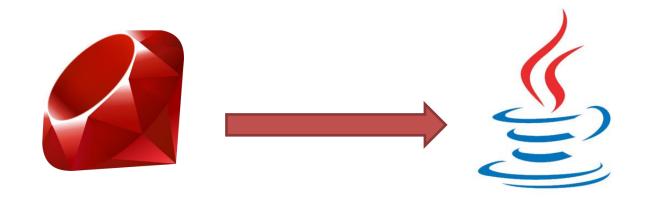
 MANAGEMENT DONE

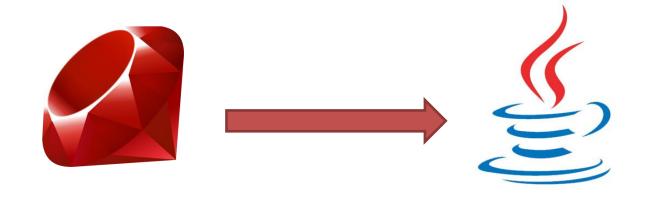
 RIGHT SINCE 2007

- SOPHISTICATED! - DEPENDENCY MANAGEMENT DONE RIGHT SINCE 2007
- ENTERPRISY?

- YOUNG AND KICKING!

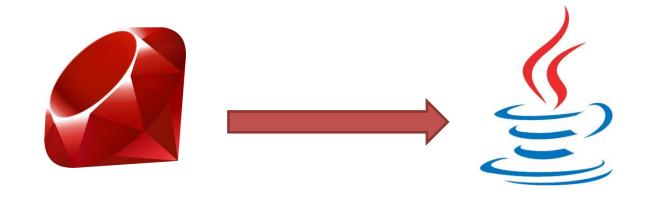




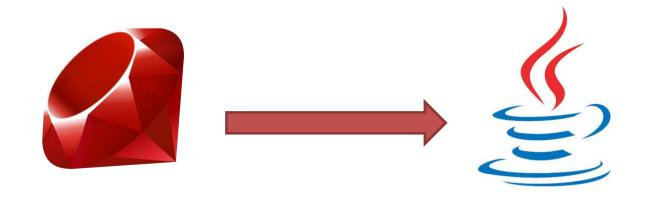


Ruby

Groovy

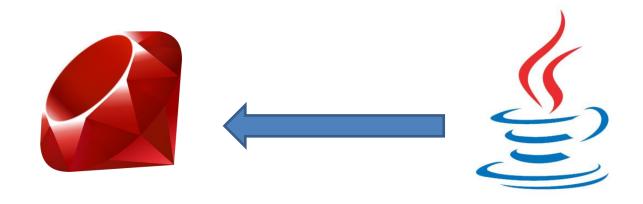


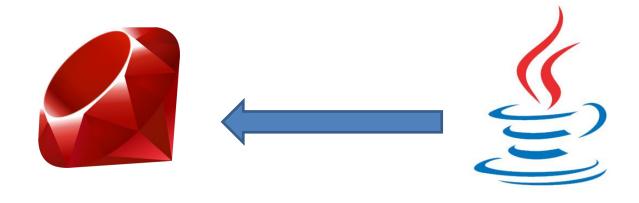
Ruby Ruby On Rails **Groovy Grails**



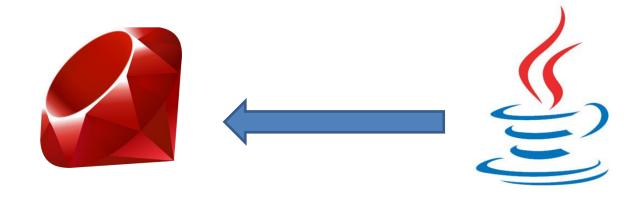
Ruby
Ruby On Rails
Sinatra

Groovy Grails RatPack

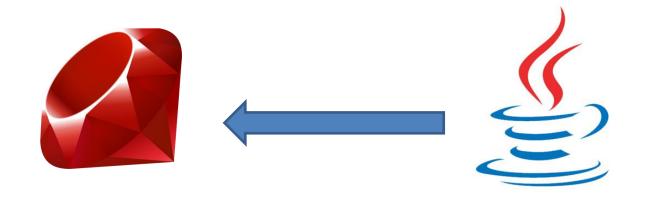




Gems Jars



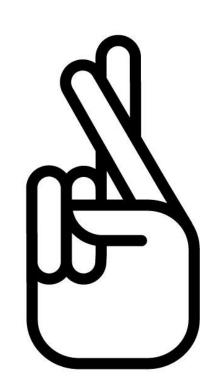
Gems Jars RubyGems.org Maven Central



Gems
RubyGems.org
Artifactory

Jars
Maven Central
Artifactory

DEMO TIME!

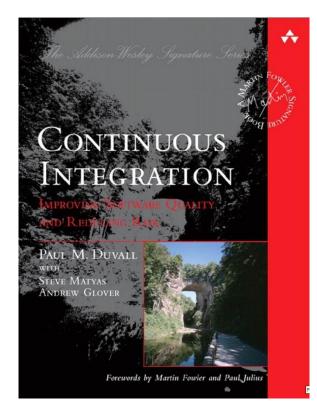




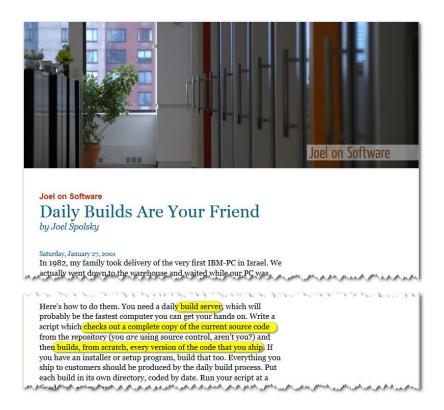
CIA



CONTINUOUS INTEGRATION AUTOMATION



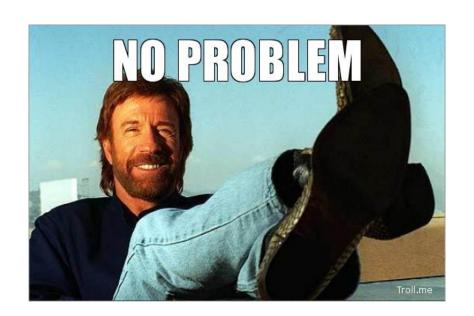
CI SERVERS CHECK OUT CODE, RUN BUILD TOOLS...



...AND SHOW CHUCK NORRIS QUOTES.



Hudson ver. 1,317



MOST IMPORTANT



WHY DO I CARE?



REASON #1

TRACEABILITY

THE TIME MACHINE



QUEST FOR TRACEABILITY



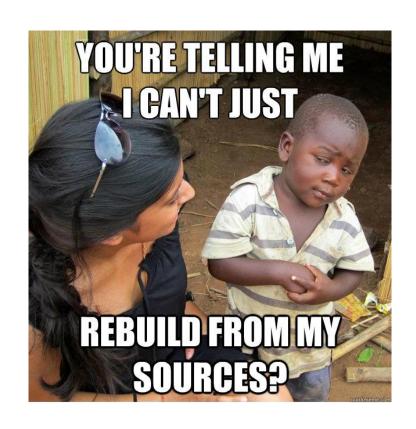
QUEST FOR TRACEABILITY

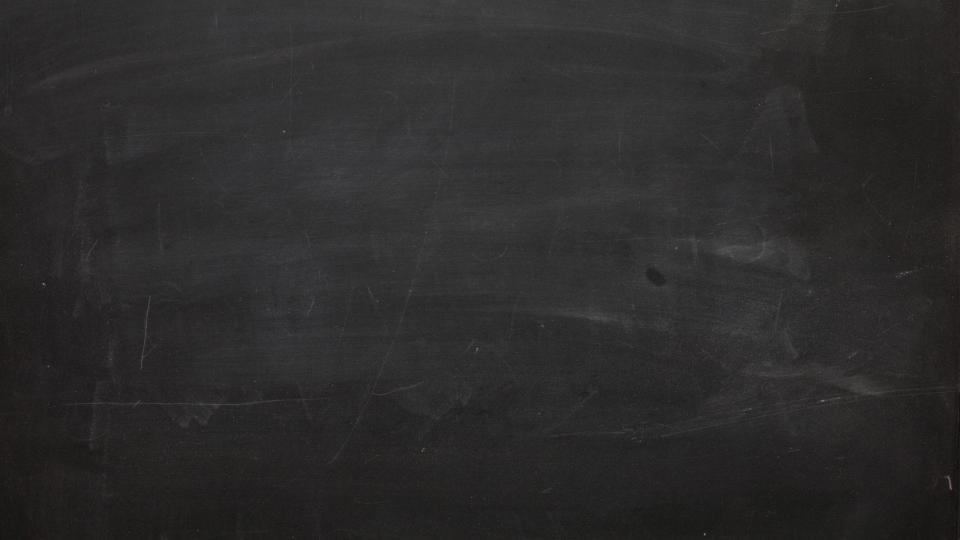


QUEST FOR TRACEABILITY



WHAT'S THE PROBLEM?





- CHECKOUT BRANCH/TAG/REVISION

- CHECKOUT BRANCH/TAG/REVISION

- BUILD

- CHECKOUT BRANCH/TAG/REVISION

- BUILD

- DONE

- CHECKOUT
 BRANCHOTAG/REVISION
- BUILD

- DONE

- CHECKOUT

 BRANCHOTAG/REVISION

 WORK!
- BUILD
- -TIMME CONSUMMING
- DONE

- CHECKOUT

 BRANCHOTAG/REVISION

 WORK!
- BUILD
 - -TIMAE CONSUMING
- DONE -UWSTABLE

DEPENDENCIES LIE



EVIL DEPENDENCIES RESOLUTION



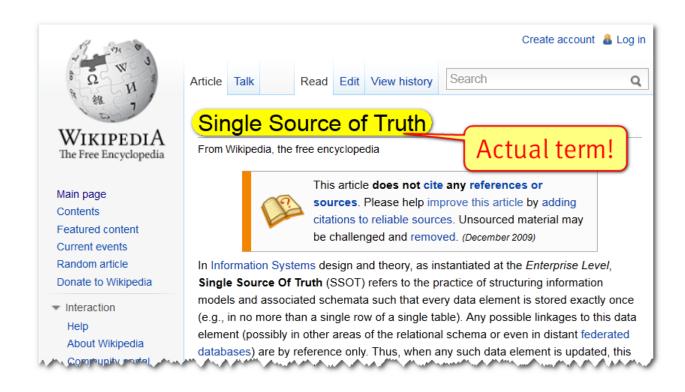
WE CAN DO BETTER!

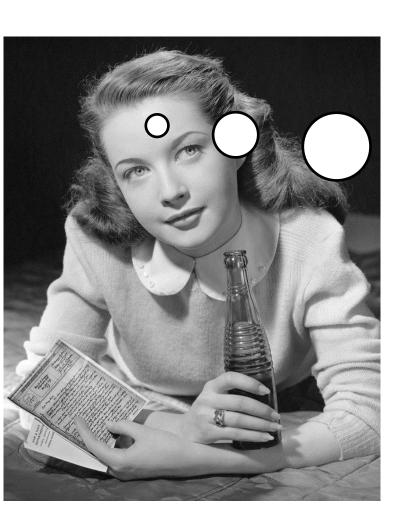


REMEMBER? BUILD SERVER:



IT KNOWS IT ALL!



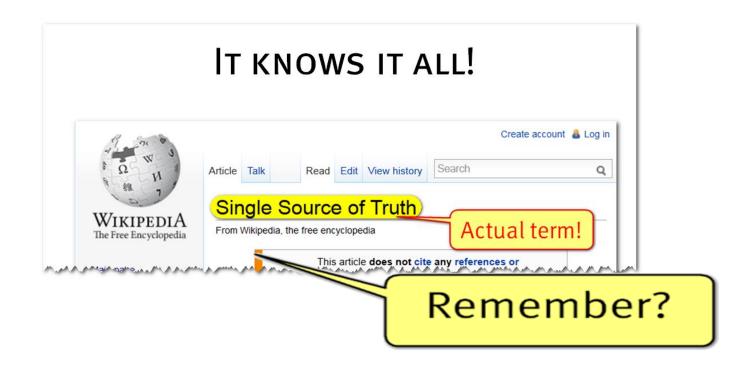


Wouldn't it be dreamy if there was a way to capture this truth?

BINARY REPOSITORY AND CI/CD



CI SERVER IS THE SINGLE SOURCE OF TRUTH



BINARY REPOSITORY IS THE SINGLE TARGET OF TRUTH



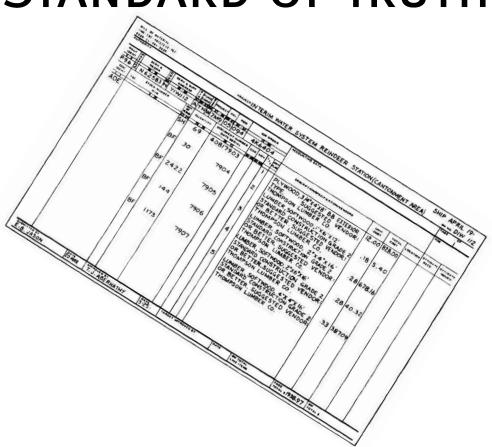
SAVE THE TRUTH!

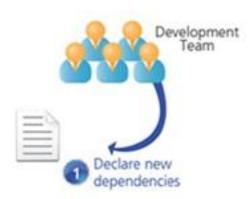


Make Strange Binary Love



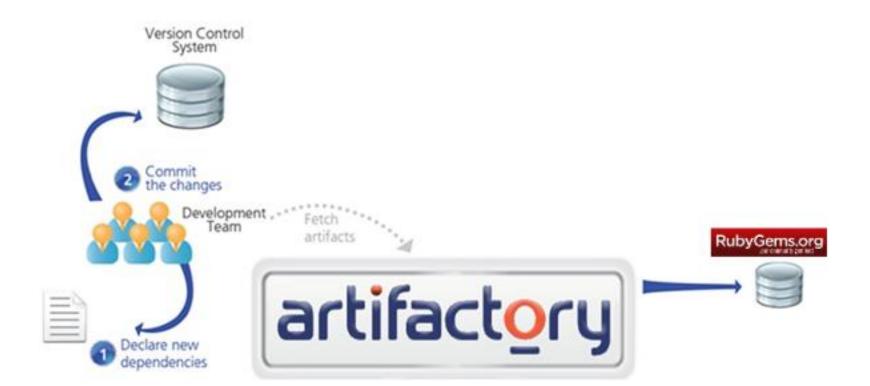
STANDARD OF TRUTH

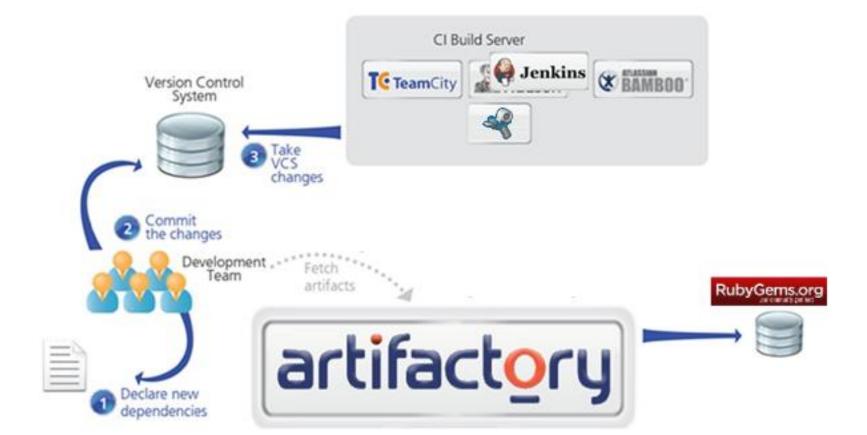


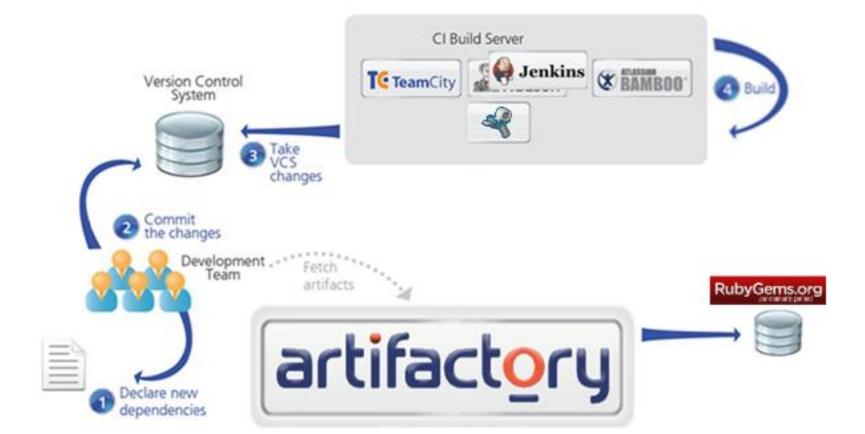


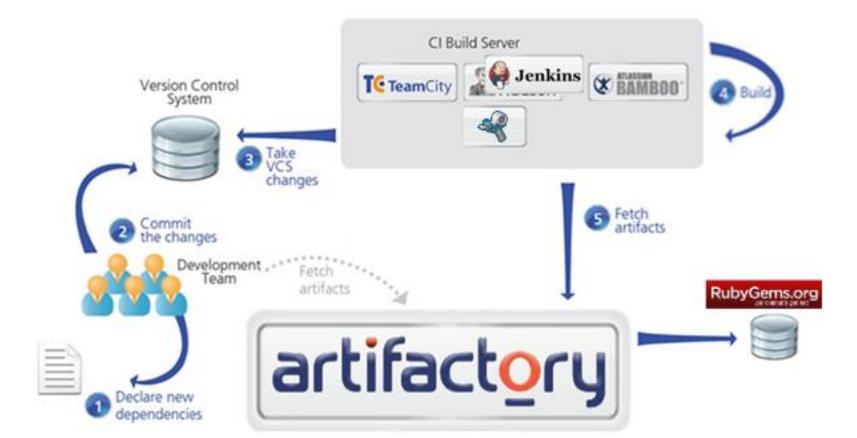


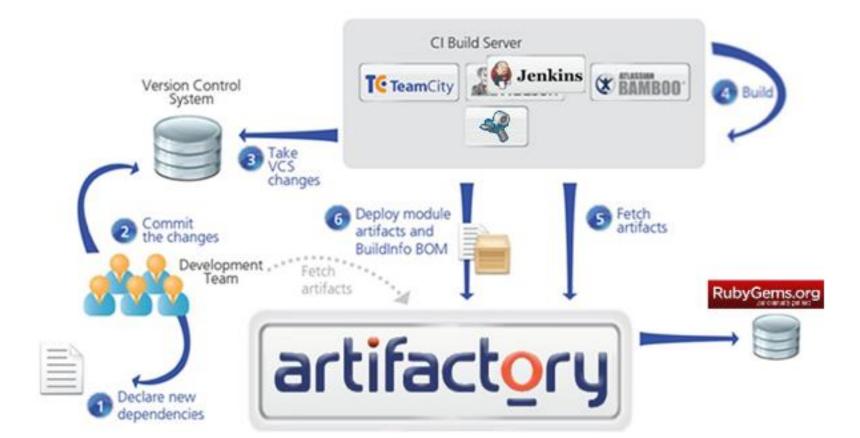


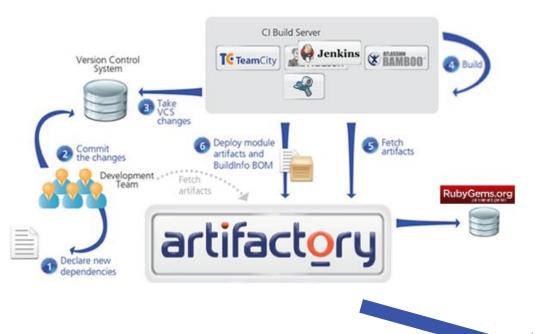
















Thank You To Our Sponsors







JenkinsMobi

Mobile ALM



kebiaLabs























Test Faster, Release Sooner,