

Main sponsor



IMPORT CONTINUOUS.DELIVERY.*

Toomas Rõmer

@toomasr

ZeroTurnaround



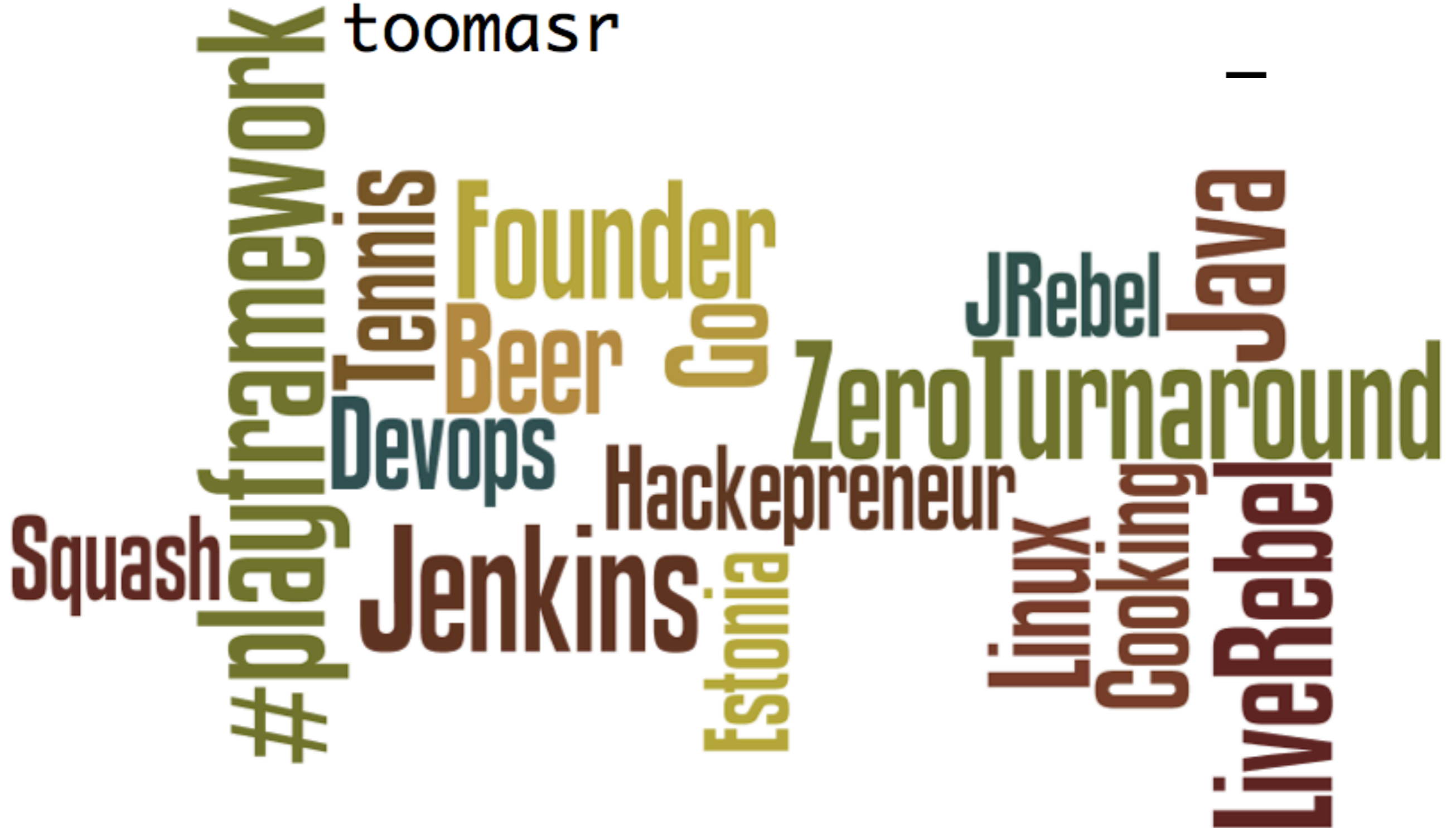
33rd Degree Conference
Conference for Java Masters

19-21 March 2012
Kraków, Poland



```
toomasr@cigarillo ~ » whoami
```

```
toomasr
```



A word cloud representing the interests and work of toomasr. The words are arranged in a circular pattern, with 'ZeroTurnaround' being the largest and most central. Other prominent words include 'JRebel', 'Java', 'LiveRebel', 'Cooking', 'Linux', 'Hackerpreneur', 'Jenkins', 'Devops', 'Beer', 'Tennis', 'Founder', 'Go', 'Estonia', 'Squash', and '#playframework'.

toomasr

ZeroTurnaround

JRebel

Java

LiveRebel

Cooking

Linux

Hackerpreneur

Jenkins

Devops

Beer

Tennis

Founder

Go

Estonia

Squash

#playframework

AGENDA

- Problem
 - Jenkins
 - LiveRebel
- Continuous Delivery Pipeline
- Demos
- Q & A

FEDEX PROCESS



FEDEX PROCESS



- You package deliverables

FEDEX PROCESS



- You package deliverables
- You send that package

FEDEX PROCESS



- You package deliverables
- You send that package
- You track the package

FEDEX PROCESS



- You package deliverables
- You send that package
- You track the package
- You confirm delivery

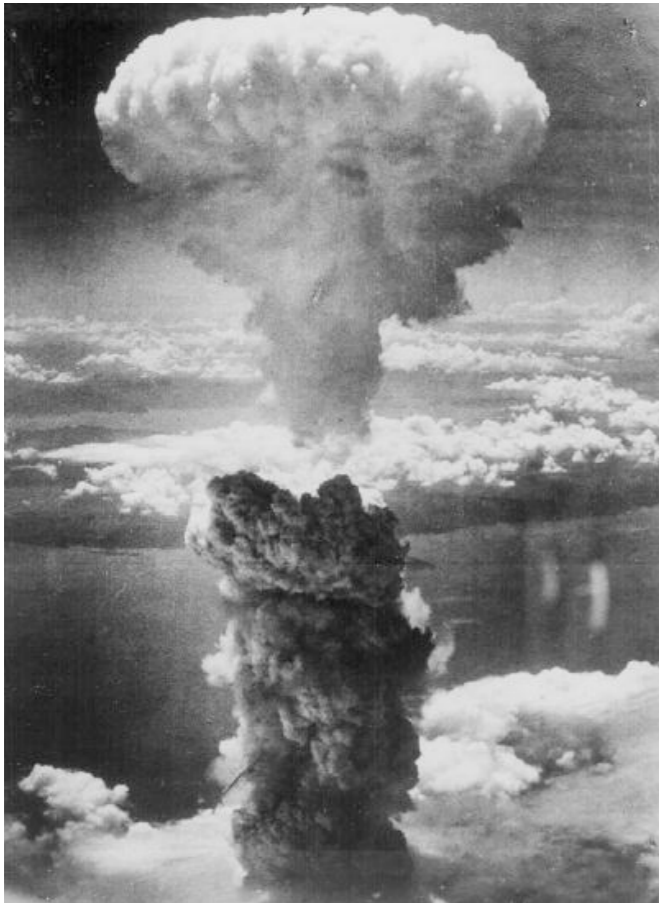
FEDEX PROCESS



- You package deliverables
- You send that package
- You track the package
- You confirm delivery
- Profit!

WHAT ABOUT SOFTWARE?

CREATE PACKAGE



WAR

myApp.war



JAR

myLib.jar



EAR

myApp.ear

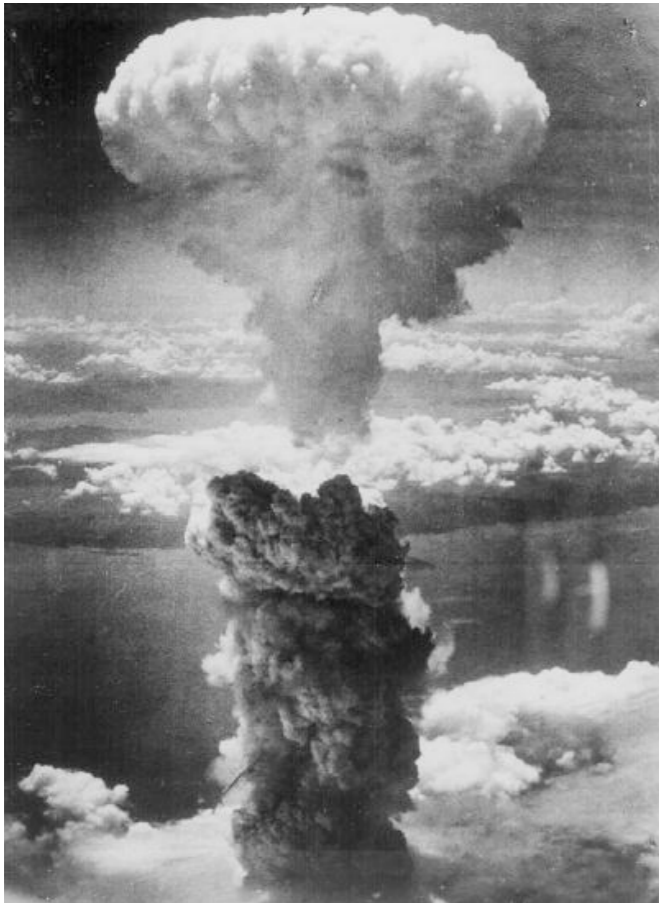
**WHERE DID IT COME
FROM?**

**HOW DOES IT GET TO
PROD?**

**HOW DOES IT GET
DEPLOYED?**

WHAT EXACTLY WENT TO PROD?

???



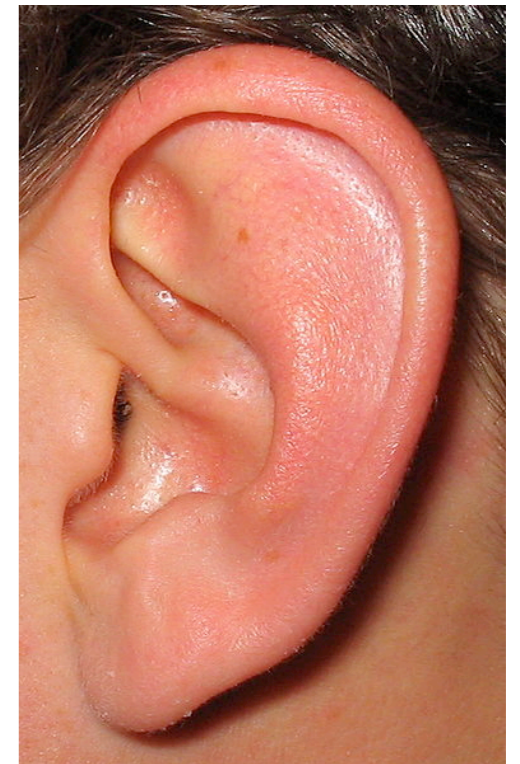
WAR

myApp.war



JAR

myLib.jar



EAR

myApp.ear

#9

Feb 23, 2012 1:56:38 AM

#8

Feb 22, 2012 2:04:58 PM

#7

Feb 22, 2012 1:59:32 PM

#6

Feb 17, 2012 5:01:35 PM

#5

Feb 15, 2012 12:33:25 PM

#4

Feb 5, 2012 8:44:32 PM

#3

Jan 23, 2012 1:09:05 PM

#2

Jan 23, 2012 12:50:35 PM

#1

Jan 23, 2012 12:48:10 PM

RSS for all

RSS for failures

☐ Batch tasks
 ☐ This build is parameterized
 ☐ Throttle Concurrent Builds
 ☐ Use custom text for Walldisplay
 ☐ Prepare an environment for the job
 ☐ Disable Build (No new builds will be executed until the project is re-enabled)
 ☐ Execute concurrent builds if necessary

JDK

(Default)

JDK to be used for this project

☒ Restrict where this project can be run

Label Expression

master

Advanced Project Options

Source Code Management

☐ Git
 ☐ Mercurial
 ☒ None
 ☐ Subversion

Build Triggers




☐ Build after other projects are built
 ☐ Trigger builds remotely (e.g., from scripts)
 ☐ Build periodically
 ☐ Poll SCM

Build Environment

☐ Assign unique TCP ports to avoid collisions
 ☐ CleanUp all other workspaces in the same slavegroup
 ☐ Copy files into the job's workspace before building
 ☐ Inject environment variables to the build process

Save

Jenkins

-  [New Job](#)
-  [People](#)
-  [Build History](#)
-  [Project Relationship](#)
-  [Check File Fingerprint](#)
-  [Manage Jenkins](#)
-  [UI Samples](#)
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ENABLE AUTO REFRESH

ZeroTurnaround Build Center

[edit description](#)

All	All Failed	All Unstable	Auto	JR	JR Ejb	JR Remote	JR Servlet	JRSocial	LR Cloud	LR Dev	LR Jenkins	LR Stable 1.1	LR Staging	R	Spring	~Disabled	+	
S	W	Name ↓	Last Success	Last Failure	Last Duration													
		collib-2.2-tests-ir4	24 days (#11)	24 days (#10)	32 sec													
		demo-chat-ver1	2 days 6 hr (#11)	20 days (#4)	40 sec													
		demo-chat-ver2	2 days 6 hr (#9)	20 days (#1)	1 min 32 sec													
		groovy-1.8.2-tests-ir4	17 days (#13)	24 days (#10)	7 min 2 sec													
		guava-11.0.1-tests-ir4	17 days (#18)	24 days (#15)	3 min 20 sec													
		gwt-2.4.0-tests	1 mo 1 day (#10)	3 mo 27 days (#4)	1 hr 0 min													
		hudson-liverebel-deploy-plugin-build	20 days (#9)	N/A	1 min 14 sec													
		hudson-liverebel-deploy-plugin-test	3 mo 20 days (#17)	20 days (#19)	5 min 55 sec													
		jbossas-7.0.2-tests-ir4	24 days (#20)	24 days (#19)	10 min													
		jenkins-liverebel-deploy-plugin-build	20 days (#142)	1 mo 25 days (#134)	1 min 15 sec													
		jenkins-liverebel-deploy-plugin-test	1 mo 11 days (#382)	2 days 3 hr (#399)	4 min 46 sec													
		jetty-8.0.4-tests-ir4	18 days (#12)	24 days (#10)	24 min													
		jr-app-config-build	2 days 4 hr (#1057)	27 days (#990)	10 sec													
		jr-config-build	2 days 4 hr (#1123)	27 days (#1050)	12 sec													
		jr-config-build-mavenized	3 days 6 hr (#5)	N/A	3 min 26 sec													

Jenkins

(Always safe to talk about OSS projects)

CONTINUOUS INTEGRATION SERVER

ORCHESTRATION PLATFORM

AUTOMATION PLATFORM

CRON ON STEROIDS

JENKINS

- Logging
- Notifications
- Clustered
- GUI
- Authentication
- Authorization

Configuration

Applications Servers History Configuration

Users Licensing Failover Ag

User Configuration
Manage Command Center users, permissions and authentication tokens.

Failover
Configure a failover server for the Command Center to provide fault tolerance.

History

Applications Servers History

Time	User	Type	Message
2012-03-17 16:28:37.573		REGISTRATION	Product registered s
2012-03-17 16:28:40.602		ADMIN_CREATED	User 'admin' created
2012-03-17 16:28:40.606	admin	LOGIN	User 'admin' logged
2012-03-17 16:45:29.310		AGENT_CONNECTED	Agent with id = 192.1
2012-03-17 16:46:54.938		AGENT_CONNECTED	Agent with id = 192.1
2012-03-17 23:05:53.766		AGENT_CONNECTED	Agent with id = 192.1
2012-03-17 23:05:56.479		AGENT_CONNECTED	Agent with id = 192.1

LiveRebel

Help Feedback admin Logout

Server production - 127.0.0.1 aliased successfully.

Servers

Applications Servers History Configuration

3 Servers

search Add server

Server	Address	Details
● production - 127.0.0.1 No description	127.0.0.1	view log server info
▼ 0 Applications Add application		
No local deployments found.		
● staging - 192.168.5.31 No description	127.0.0.1	view log server info
▶ 0 Applications Add application		
● testing - 192.168.5.31 No description	127.0.0.1	view log server info
▶ 1 Application Add application		

ABOUT
© ZeroTurnaround OÜ 2009-2012
Ülkooli 2, Tartu, 51006 Estonia

SUPPORT
liverebel@zeroturnaround.com
Support Forums

VERSION
v2.0.3

LICENSES (MANAGE)
3 of 101 node(s) connected
Registered to ZT Test (ZeroTurnaround OÜ)

LiveRebel

(Commercial deployment tool)

WHAT IS LIVEREBEL?

- Dashboard
 - Application Servers
 - Applications
 - Deployments
- Scriptable

WHAT CAN YOU DO WITH LIVEREBEL?

- Deploy/Undeploy
- Update
 - No downtime
 - No lost sessions
 - Plain old restarts
- Edit in place

WHY LIVEREBEL?

- No good OSS alternative
- Supports many containers
- No downtime updates
- Integrates with OSS projects

JENKINS + LIVEREBEL

- Jenkins
 - Orchestrate the process
- LiveRebel
 - Handle deployments

WHAT IS CONTINUOUS DELIVERY?

**NOW LET'S BUILD A
TRACKABLE PIPELINE!**

ASPECTS

- Job chaining
- Artifact propagation
- Artifact tracking
- Artifact deployment

DEMO

ASPECTS

- Job chaining
- Artifact propagation
- Artifact tracking
- Artifact deployment
- Transparency

Q & A