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A big tent for the free and open source community



GlassFish™ Community Lighting Talks



GlassFish Community Speakers

Moderator: Alexis Moussine-Pouchkine, Sun Microsystems

Session ID: S297769

Agenda

- › GreenFire
- › Underworld
- › IzPack
- › Terracotta
- › SailFin
- › RTL use-case
- › Hudson
- › Embedded GlassFish

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GreenFire

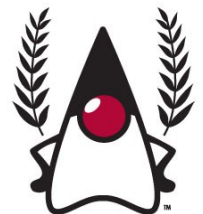
Adam Bien



Who am I?

Adam Bien (blog.adam-bien.com)

- Expert Group Member (jcp.org) of Java EE 6, EJB 3.1, Time and Date and JPA 2.0
- **Java Champion, speaker, consultant and author:**
Enterprise Java Frameworks, J2EE Patterns, J2EE HotSpots, Struts, SOA Expertenwissen, Enterprise Architekturen, Java EE 5 Architekturen and about 50 published articles
- Trainer (since JDK 1.0)
- Project owner/commmitter: <http://underworld.dev.java.net>
<http://greenfire.dev.java.net>,
<http://p4j5.dev.java.net>,
<http://o24j.dev.java.net>,
<http://fishfarm.dev.java.net/>



GreenFire.dev.java.net

Situation/context dependent prioritization of „bio“ resources
(solar over pellets etc.)

Highest possible energy and CO2 savings

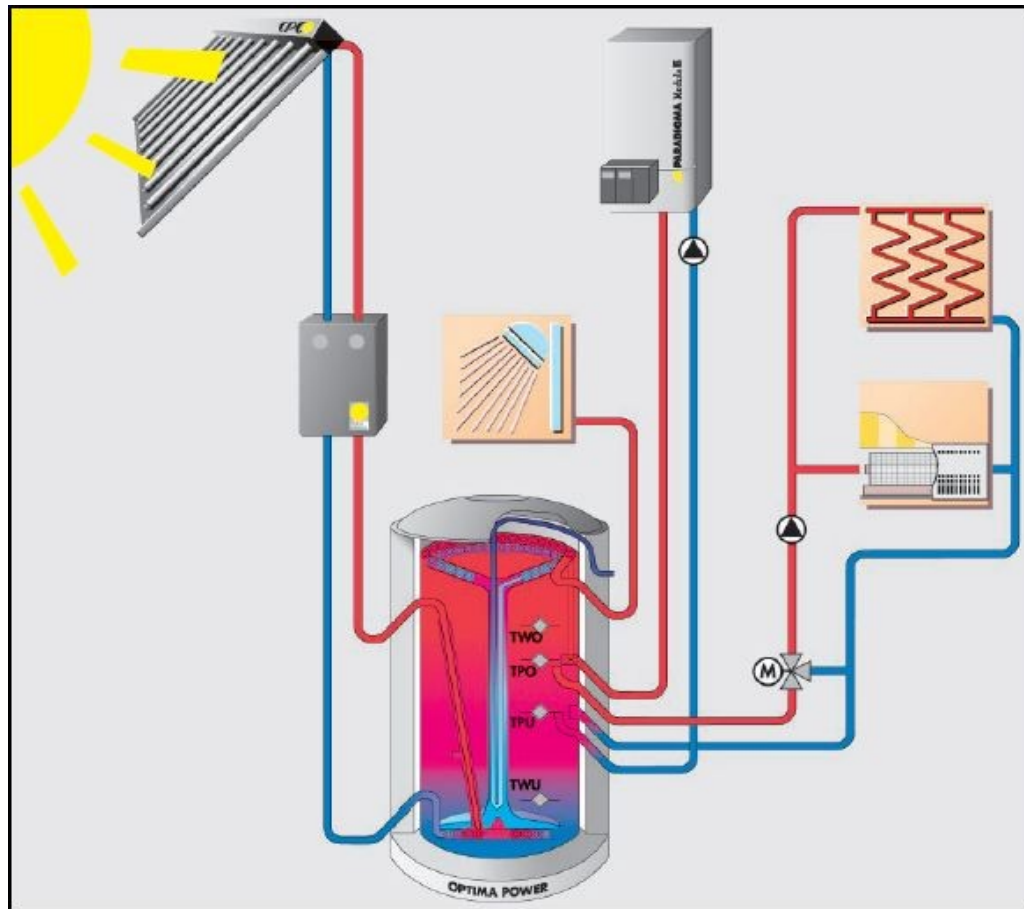
Intelligent control of circulation-pumps, heating and
ventilation

Monitoring, reports and remote control

...and FUN (JavaFX, SunSPOTs, Groovy etc.)



Buffer – the heart of the heating system.



Source: paradigma.de

Hacking Java EE 5 is good for the environment!



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UnderWorld

Adam Bien

Context

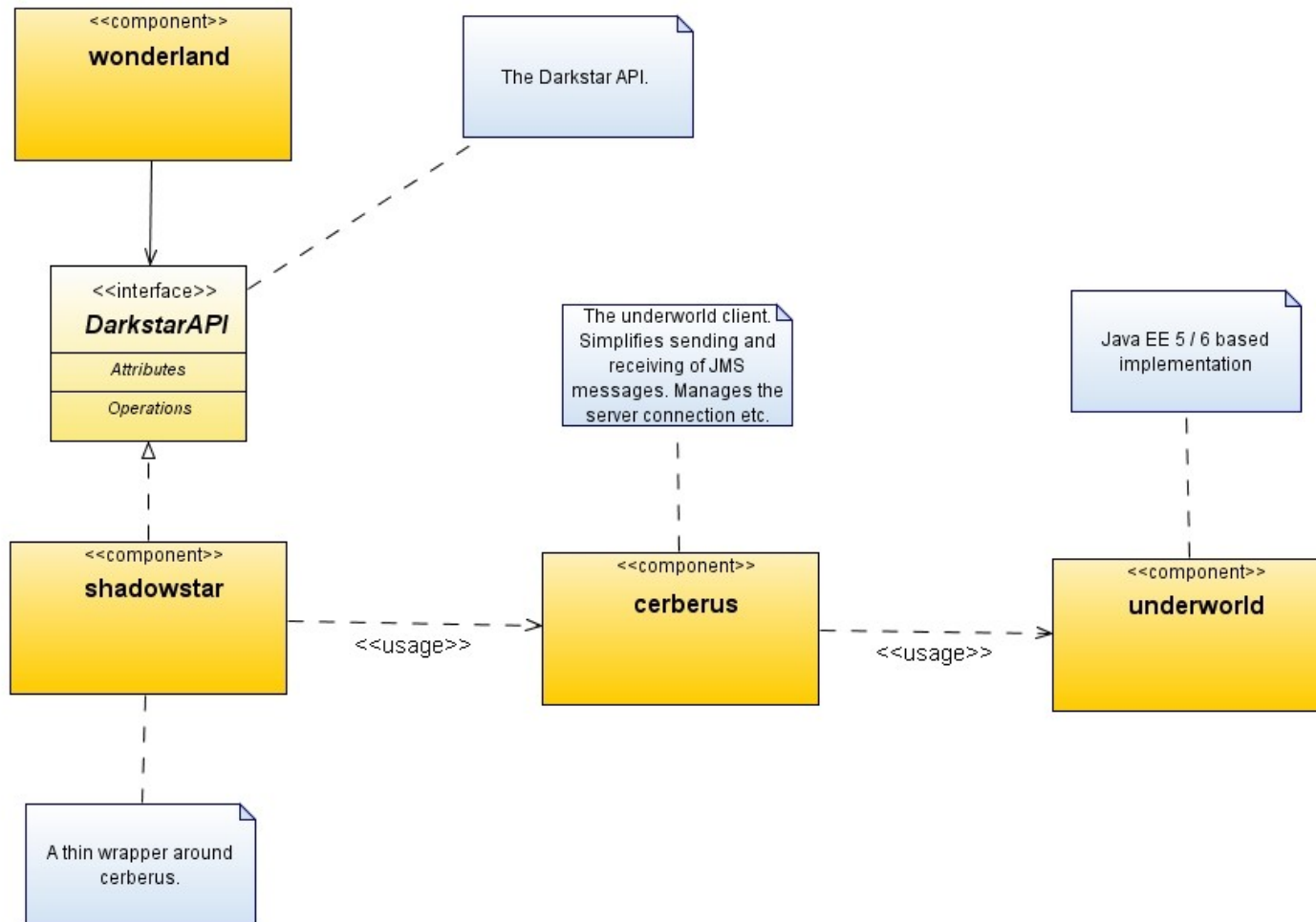
- Wonderland.dev.java.net is a “Second Life”-like 3D virtual reality in pure Java.
- It’s opensource – and easy to build from source (try it!)
- Wonderland is not a game, rather than an extensible communication/collaboration platform with high demands on scalability and performance.
- It is based on “client-server” paradigm, so it needs a central persistence and communication hub.

underworld.dev.java.net

Underworld leverages GlassFish's non functional capabilities, especially:

- Management / Monitoring (AMX, JMX, Call Flow)
- Administration (Web, CLI)
- Fail Over (Leveraging Java EE 5 capabilities)
- Clustering
- Extensibility
- Ease of deployment
- Scalability (Grizzly, JMS etc.)

Architectural Goals



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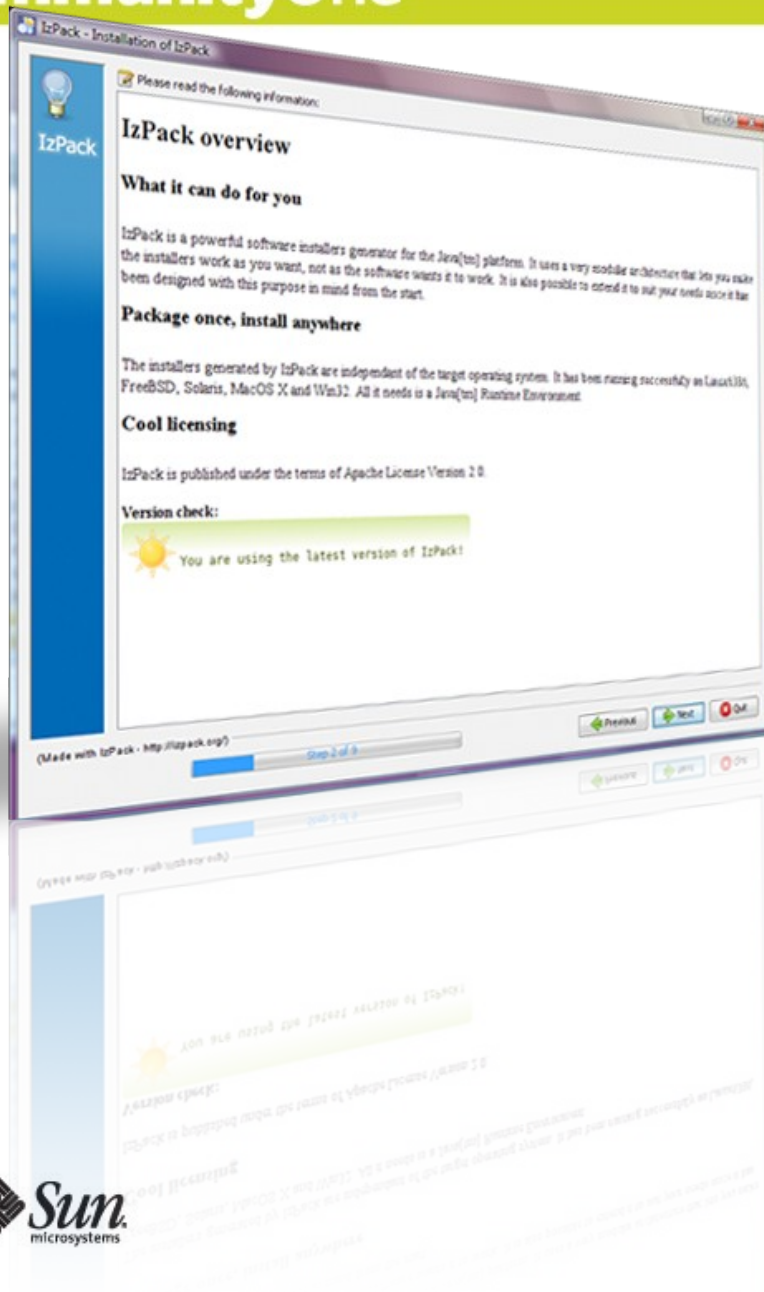
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IzPack

Julien Ponge

IzPack 
Package once. Deploy everywhere.



<http://izpack.org>

Opensource

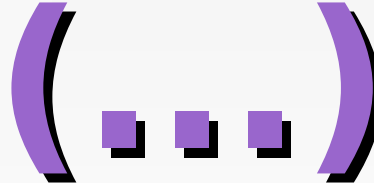
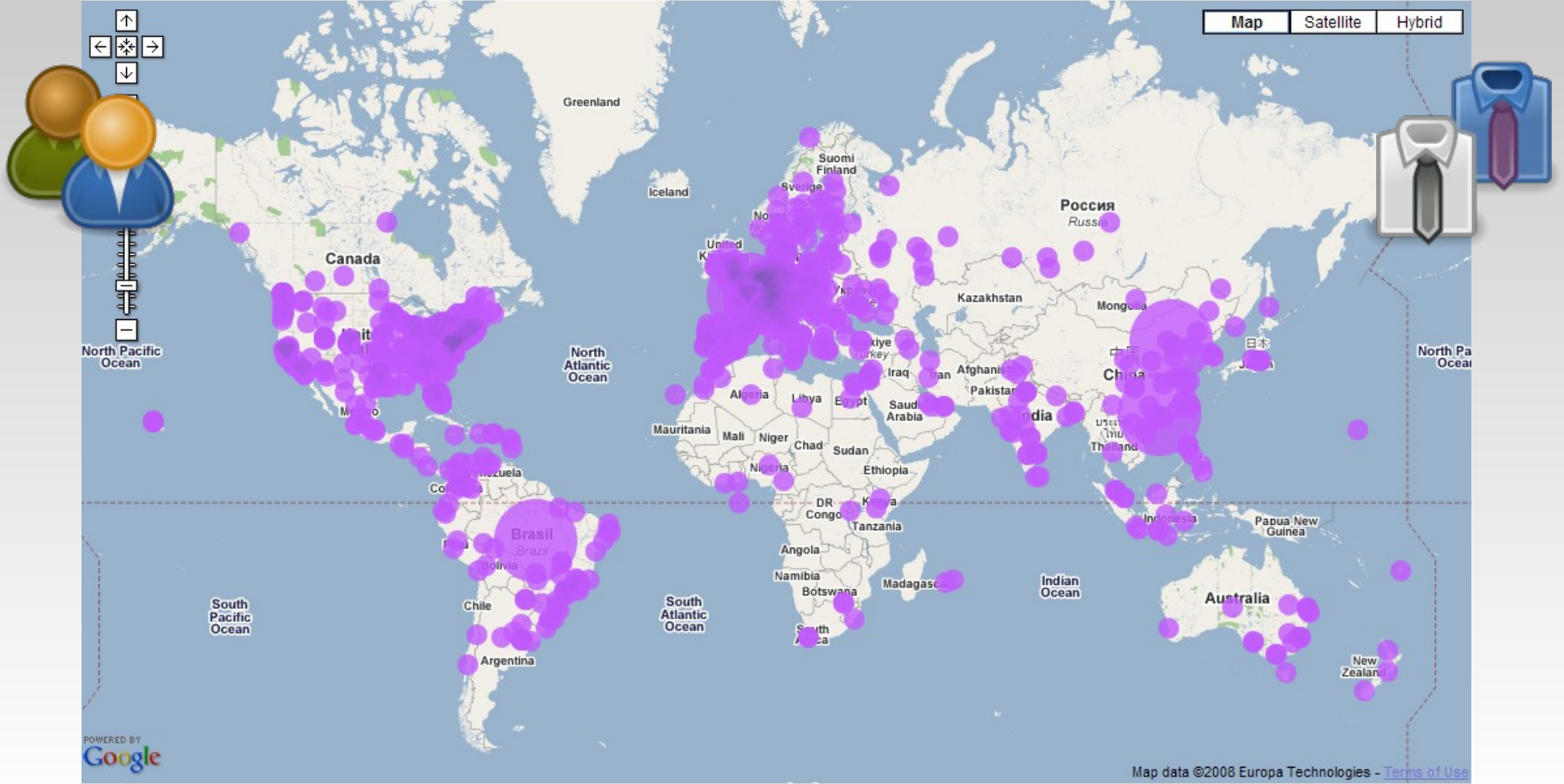
Community-driven

Cross-platform

Native integration

Flexible + extensible






IzPack - Installation of GlassFish

User Data

Step 4 of 7



Domain informations

Domain name:	domain1
Instance name:	server
Administrator user name:	admin
Administrator password:	adminadmin

Domain network ports

HTTP port:	8080
HTTPS port:	8181
Administration console port:	4848
ORB port:	3700
IMQ port:	7676

Creation options

Create a cluster-mode domain

Start the domain after creation

(Made with IzPack - <http://izpack.org/>)

Demo!



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TerraCotta

Ari Zilka, TerraCotta



Terracotta and GlassFish

- Open Source JVM-level clustering...
 - works like Network Attached Memory
 - or a shared memory pool
- Use it to...
 - offload the DB by moving "non-historical" data to memory
 - HTTP session cluster for glassfish (long, important conversations with end users)
 - Cluster your framework of choice (Spring, EHCache, Hibernate, Lucene / Compass)
 - Build lower level abstractions like grid, master/worker, routers & load balancers

TerraCotta and GlassFish

> Key benefits...

- SCALABLE: read at in-memory speeds
- AVAILABLE: but keep memory consistent and durable to disk
- SIMPLE: Use it on the applications you already have (don't rewrite)
- Ease operational burden through Visibility and Control tools

> Let's see it work.

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SailFin

Christer Boberg, Ericsson



ERICSSON 
TAKING YOU FORWARD

SIP & SIP Container

- SIP is mainly intended for setting up multi-media sessions between peers
- SIP is similar to HTTP in structure and protocol syntax
- SIP Container is for SIP what Web Container is for HTTP.



Project Sailfin

- Open source project adding SIP Container on top of the GlassFish foundation.
- Converged SIP/HTTP JavaEE based application server for development of Java based multi-media applications removing the borders between Internet & Telecom
- Additions such as replication of session state, full application convergence between SIP and HTTP and data (user) centric load balancer
- Same characteristics as commercial available options.

Presence, a converged application

- Presence is a typical converged app using both SIP and HTTP.
- An example; The Presentity blocks a Watcher via the Web and the Presence Server terminates the ongoing Presence subscription
 - an incoming HTTP request result in the termination of an ongoing SIP subscription

Future

- Major JavaEE and Internet/Telecom players are adopting SIP Servlet concept.
- 5-10 Ericsson applications are currently based going for Sailfin and the goal is that all new apps in the IP Multimedia area shall use Sailfin as the base.
 - Ericsson & Sun will put a big effort into further evolution of Sailfin.
- The people and companies in the Java Community forms the future of Sailfin and converged applications.



<https://sailfin.dev.java.net/>

Thank You!

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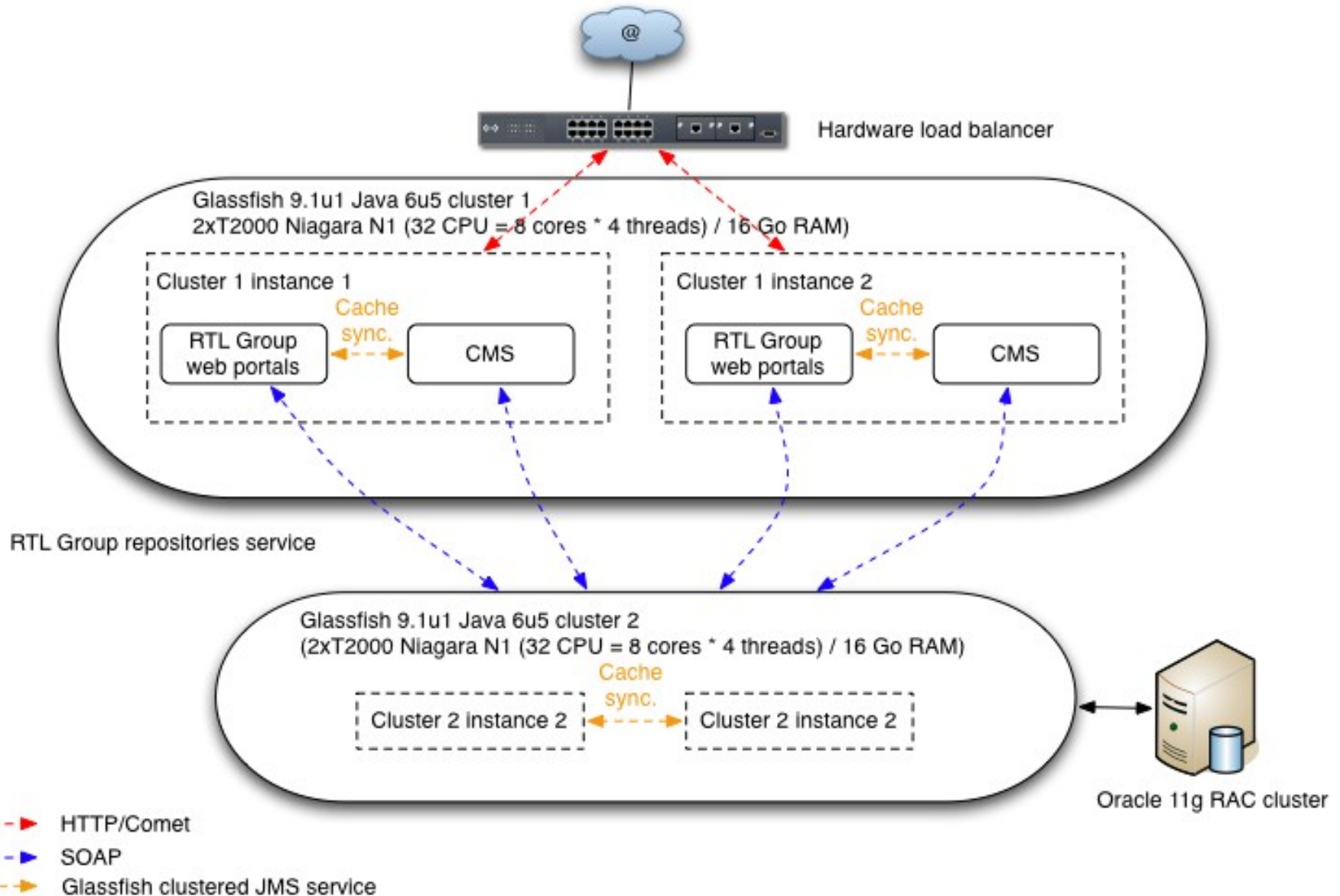
RTL Use-Case

Daniel Chan, RTL



RTL Group France

- Composed of the following radios : RTL, RTL2, Fun Radio
- RTL radio is the 1st radio in France
- RTL Group France websites :
 - \geq 6.6 M visitors per month
 - \geq 170M page views
 - up to 30K simultaneous connections (Comet and/or plain HTTP)



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Hudson

Kohsuke Kawaguchi, Sun



Hudson

> What?

- Continuous Integration Server
- Open-source
- Super easy to install, easy to use
- Extensible
- Helping all kinds of business, including GlassFish v3

> Why?

- Put computers at work
- Very active community
- Increase transparency
- Reduce people dependency



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Embedded GlassFish

Kohsuke Kawaguchi, Sun



Embeddable GlassFish v3

- GlassFish v3, packaged as a single jar
 - Add it to the classpath and off you go
- Programmatic API to start/stop/configure/deploy
- Hook into extension points of GlassFish v3
 - “Scattered” web app deployment
- Same container from development to deployment
- Tap into the power of JavaEE
 - EJB, JMS, web services, transactions...

PITCH CAMP ON FREE AND **OPEN GROUND**



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