

JUDConBerlin

JBoss Users & Developers Conference

Seam 2: Real Integration Testing with Arquillian

Michael Schütz



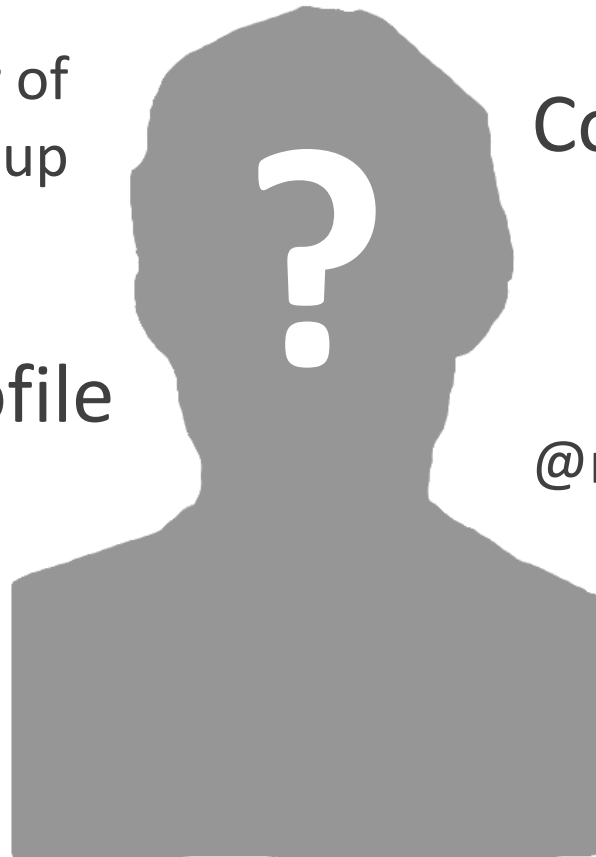
Michael Schütz

Moderator of
Seam group

Contributor

Profile

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What will you expect today?

- Introduction
- Arquillian warm up
- Focus on practical experiences
- Live coding
- The future

So why are we using Seam 2 still?

- Cool: Seam 3, CDI, Weld, Java EE 6, JSF 2, JBossAS 6
- Seam 3 – bunch of independent modules
 - No release of hole bundle, yet
 - Beta: Seam Remoting,
 - Alpha: Seam Faces, International, JMS, XML Config
 - No release: Drools, Persistence, Security, ...
- No JSF 2 Portlet Bridge ready to use
- JBossAS6M5 – final about end of year

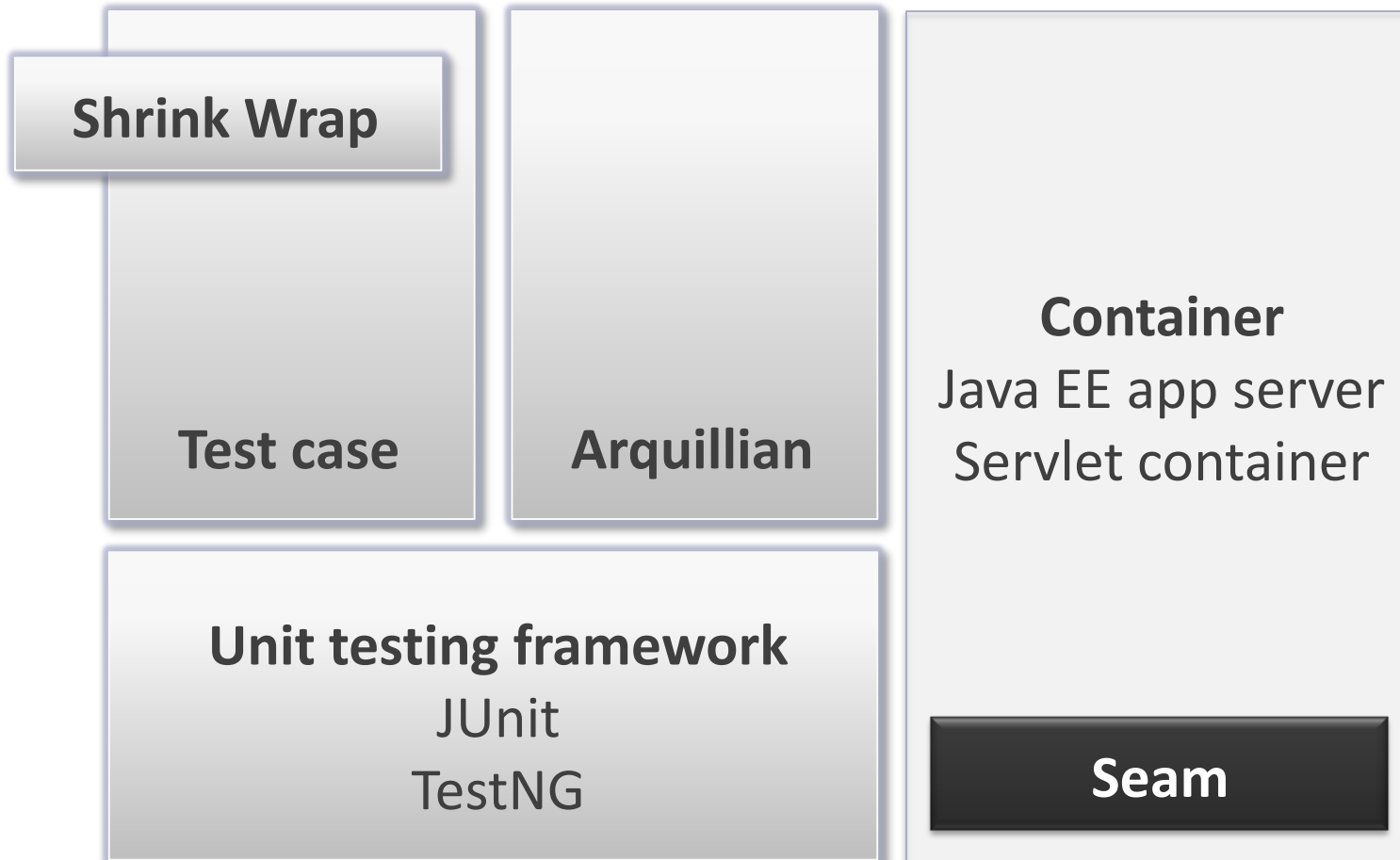
What are the key issues?

- Project lead: Aslak Knutsen
- Archives
 - ShrinkWrap
- Multiple Test frameworks
 - JUnit, TestNG
- Multiple Run modes
 - In container, as client
- Multiple Enrichers
 - CDI, EJB, Resources
- Multiple Containers

Saving time...

- ShrinkWrap – Programmatic archive creation
- Simple API
- Micro deployments
- IDE incremental compilation
 - Save and re-run
 - Skip the Build!

Combining Arquillian and Seam...



3 usecases

1.
**SAP-
Integration**

*EJB3, JCA container
configuration*

2.
**JMS: AS4.2.3
– AS 5.1**

multiple containers, Cargo

3.
**Seam 2-
Integration**

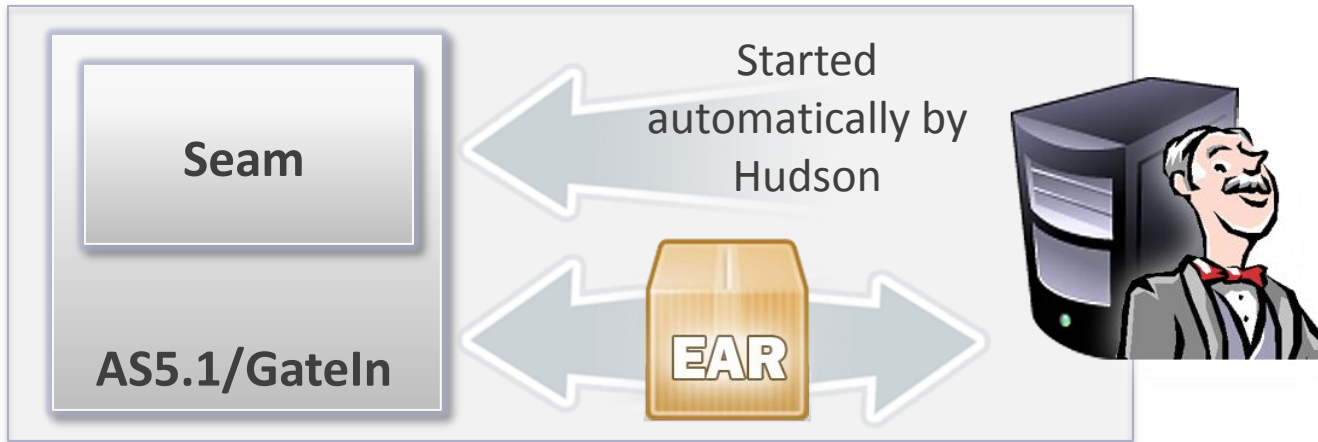
focus

Local development



- Remote container
- Deployment against running instance
- Fast feedback
- **mvn verify -Pit,jbossas51_remote**

CI – Continuous Integration



- Managed container
- Automatic nightly hudson build
- Full Lifecycle support
- **mvn verify -Pit,jbossas51_managed**



1. EJB injected Seam test
2. Native Seam injection



- API support → as Arquillian extension?
- Extending → @In Enricher
- MavenArtifactResolver → ShrinkWrap API
- JSFUnit Arquillian integration

Container name	Container type	Spec compliance	artifactId
JBoss AS 5	remote	Java EE 5	arquillian-jbossas-remote-5
JBoss AS 5.1	remote	Java EE 5	arquillian-jbossas-remote-5.1
JBoss AS 5.1	managed	Java EE 5	arquillian-jbossas-managed-5.1
JBoss AS 6.0 M4	remote	Java EE 6	arquillian-jbossas-remote-6
JBoss AS 6.0 M4	managed	Java EE 6	arquillian-jbossas-managed-6
JBoss AS 6.0 M4	embedded	Java EE 6	arquillian-jbossas-embedded-6
JBoss Reloaded 1.0	embedded	JBoss MC	arquillian-reloaded-embedded-1
GlassFish 3.0	remote	Java EE 6	arquillian-glassfish-remote-3
GlassFish 3.0	embedded	Java EE 6	arquillian-glassfish-embedded-3
Tomcat 6.0	embedded	Servlet 2.5	arquillian-tomcat-embedded-6
Jetty 6.1	embedded	Servlet 2.5	arquillian-jetty-embedded-6.1
Jetty 7.0	embedded	Servlet ~3.0	arquillian-jetty-embedded-7
Weld SE 1.0	embedded	CDI	arquillian-weld-se-embedded-1
Weld EE 1.1	embedded	CDI	arquillian-weld-ee-embedded-1.1
IronJacamar 1.0	embedded	JCA 1.6	org.jboss.ironjacamar:ironjacamar-embedded-arquillian
Apache OpenWebBeans 1.0	embedded	CDI	arquillian-openwebbeans-embedded-1
Apache OpenEJB 3.1	embedded	EJB 3.0	arquillian-openejb-embedded-3.1

- **1.0.0.Alpha4 out**, 1.0.0.Beta1 late October
- More containers – Weblogic, Spring, Hibernate, Drools...
- Frameworks: Selenium, DBUnit
- Multiple deploy against containers
- Cloud deployment (jClouds, Steamcannon/DeltaCloud)

- **Email**
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- **Twitter**
 - @michaelschuetz
- **Source Code**
 - <http://github.com/michaelschuetz/seamArquillian-judcon2010>