



BerlinExpertDays 2011

# Seam 2: Real Integration Testing with Arquillian

Michael Schütz



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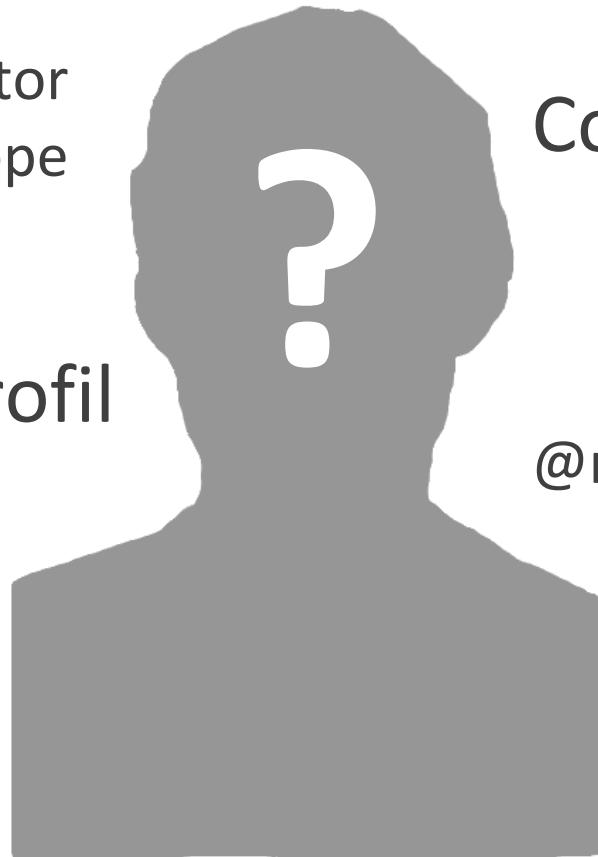
Moderator  
Seam-Gruppe

Contributor

Profil

@michaelschuetz

BED-Con 2011 (-:



## Was erwartet Euch heute?

- Einleitung
- Arquillian Warm-Up
- Fokus auf die Praxis
- Live Coding
- Ein Blick in die Zukunft

## Warum setzen wir noch auf Seam2?

- Cool: Seam 3, CDI, Weld, Java EE 6, JSF 2, GF3, JBossAS 6
- Seam 3 – Sammlung unabhängiger Module
- Erstes Final Release des kompletten Paketes 8 Tage alt (-:
- Portal Context!
  - GateIn 3.1. “final” (JBoss Portal + exo + JBoss AS 5.1)
- Keine (einsatzfähige) JSF 2 Portlet Bridge
  - JBoss Portlet Bridge 3.0.0.ALPHA (JSF2 + CDI + Seam3)
- JBossAS6 final seit Ende 2010
  - Keine offizielle GateIn Portal Integration

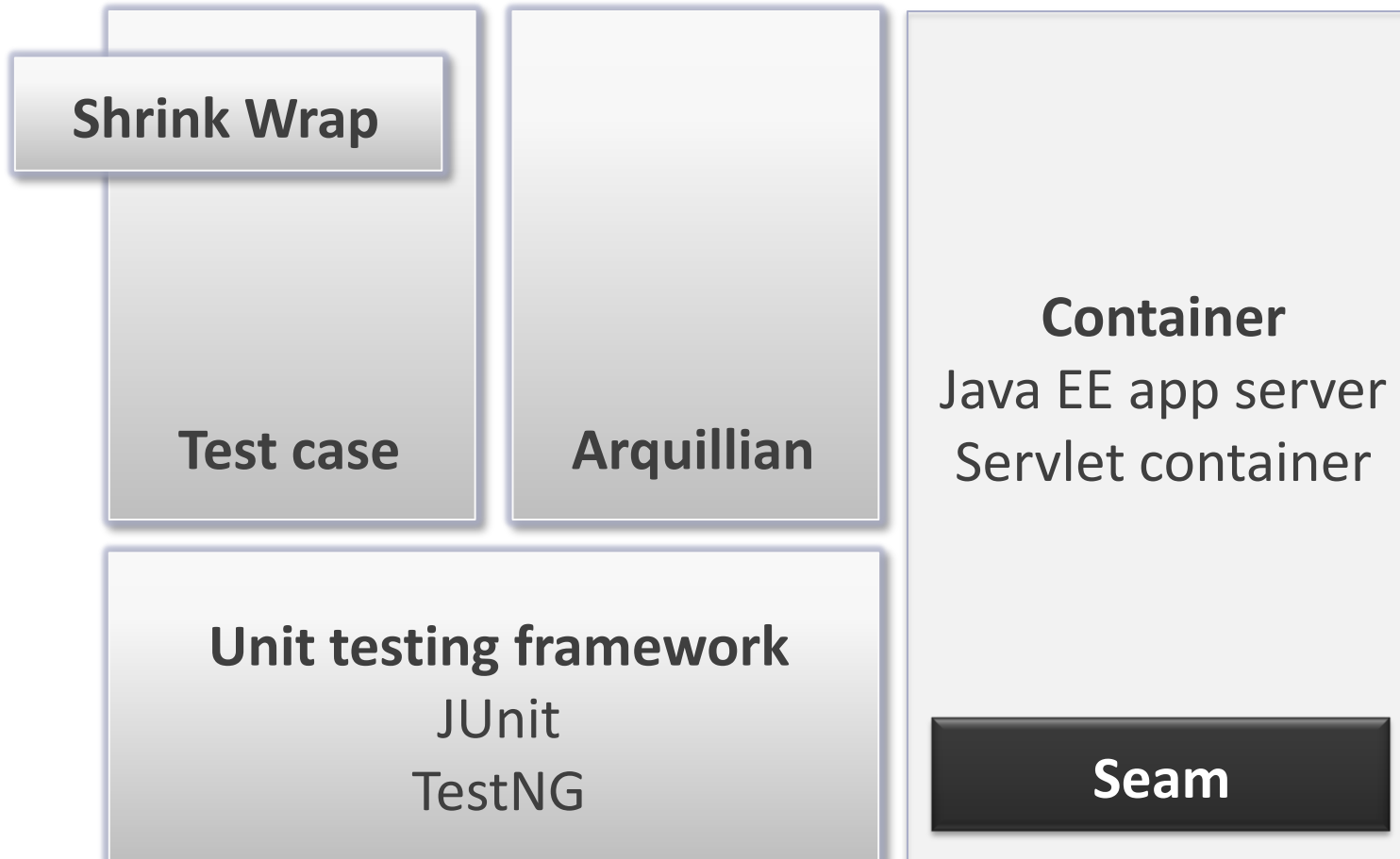
## Auf einen Blick

- Project lead: Aslak Knutsen
- Archive
  - ShrinkWrap
- Supported Test-Frameworks
  - JUnit, TestNG
- Run Modi
  - In container, as client
- Multiple Enrichers
  - CDI, EJB, Resources
- Multiple Containers

## Saving time...

- Erstellung von Archiven mittels einfacher API
- Micro deployments
- IDE incremental compilation
  - Save and re-run
  - Skip the Build!

## Arquillian + Seam ...



3 Szenarien

**1.**  
**SAP-  
Integration**

*EJB3, JCA Container  
Configuration*

**2.**  
**JMS: AS4.2.3  
– AS 5.1**

*Multiple Container,  
Cargo*

**3.**  
**Seam 2-  
Integration**

*Fokus*

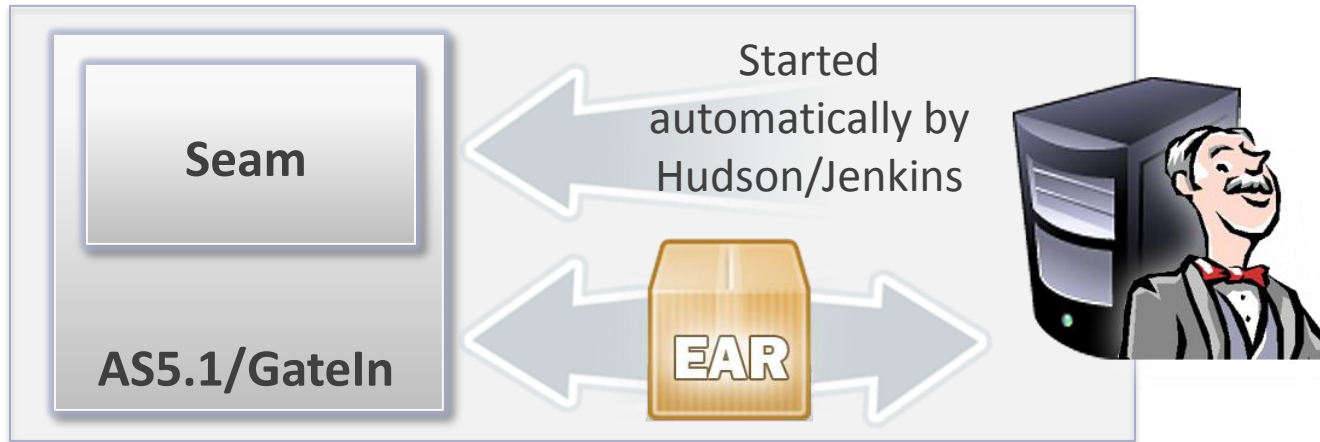


## Lokale Entwicklung



- Remote Container
- Deployment gegen laufende Instanz
- Schnelles Feedback
- **mvn verify -Pit,jbossas51\_remote**

## CI – Continuous Integration



- Managed Container
- Automatischer Nightly Build durch Hudson/Jenkins
- Full Lifecycle Support
- **mvn verify -Pit,jbossas51\_managed**



1. EJB Injected Seam Test
2. Native Seam Injection



- API Support → Arquillian Extension?
- Extending → @In Enricher
- MavenArtifactResolver → ShrinkWrap API
- JSFUnit Arquillian Integration

Container name	Container type	Spec compliance	artifactId
<a href="#">JBoss AS 5</a>	remote	Java EE 5	arquillian-jbossas-remote-5
<a href="#">JBoss AS 5.1</a>	remote	Java EE 5	arquillian-jbossas-remote-5.1
<a href="#">JBoss AS 5.1</a>	managed	Java EE 5	arquillian-jbossas-managed-5.1
<a href="#">JBoss AS 6.0</a>	remote	Java EE 6	arquillian-jbossas-remote-6
<a href="#">JBoss AS 6.0</a>	managed	Java EE 6	arquillian-jbossas-managed-6
<a href="#">JBoss AS 6.0</a>	embedded	Java EE 6	arquillian-jbossas-embedded-6
<a href="#">JBoss Reloaded 1.0</a>	embedded	JBoss MC	arquillian-reloaded-embedded-1
<a href="#">GlassFish 3.1</a>	remote	Java EE 6	arquillian-glassfish-remote-3.1
<a href="#">GlassFish 3.1</a>	embedded	Java EE 6	arquillian-glassfish-embedded-3.1
<a href="#">Tomcat 6.0</a>	embedded	Servlet 2.5	arquillian-tomcat-embedded-6
<a href="#">Jetty 6.1</a>	embedded	Servlet 2.5	arquillian-jetty-embedded-6.1
<a href="#">Jetty 7.0</a>	embedded	Servlet ~3.0	arquillian-jetty-embedded-7
<a href="#">Weld SE 1.0</a>	embedded	CDI	arquillian-weld-se-embedded-1
<a href="#">Weld SE 1.1</a>	embedded	CDI	arquillian-weld-se-embedded-1.1
<a href="#">Weld EE 1.1</a>	embedded	CDI	arquillian-weld-ee-embedded-1.1
<a href="#">Apache OpenWebBeans 1.0</a>	embedded	CDI	arquillian-openwebbeans-embedded-1
<a href="#">Apache OpenEJB 3.1</a>	embedded	EJB 3.0	arquillian-openejb-embedded-3.1

- **1.0.0.Alpha5 out**, 1.0.0.Beta1 this week (-;
- Weitere Container – Weblogic, Spring, Hibernate, Drools...
- Frameworks: Selenium, DBUnit
- Multiple Deploy Against Containers
- Cloud Deployment (jClouds, Steamcannon/DeltaCloud)

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- **Twitter**
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- **Source Code**
  - <http://github.com/michaelschuetz/seamArquillian-bed2011>