



Real Java EE Testing

Seam 2 Integration Testing with Arquillian

Michael Schütz



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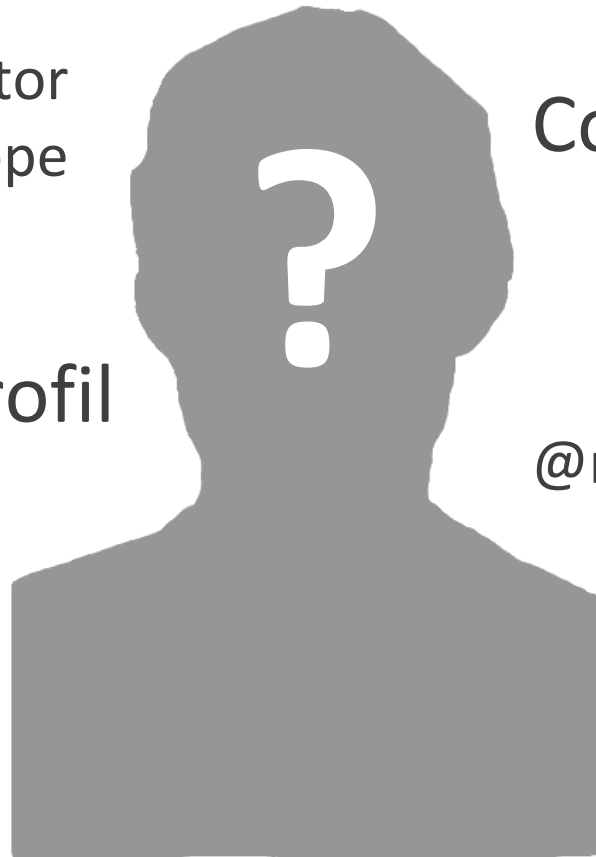
Moderator
Seam-Gruppe

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

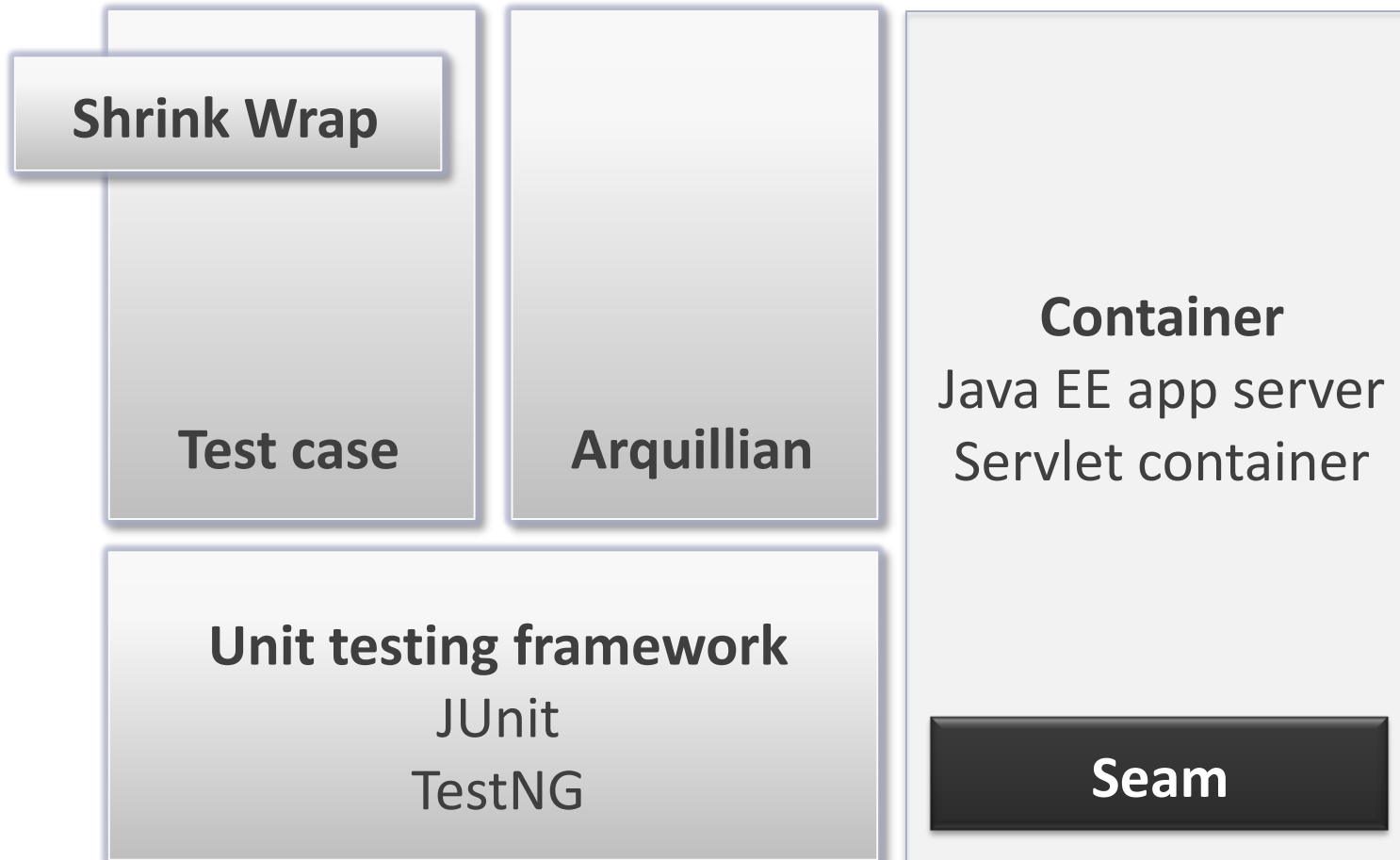
Auf einen Blick

- 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**

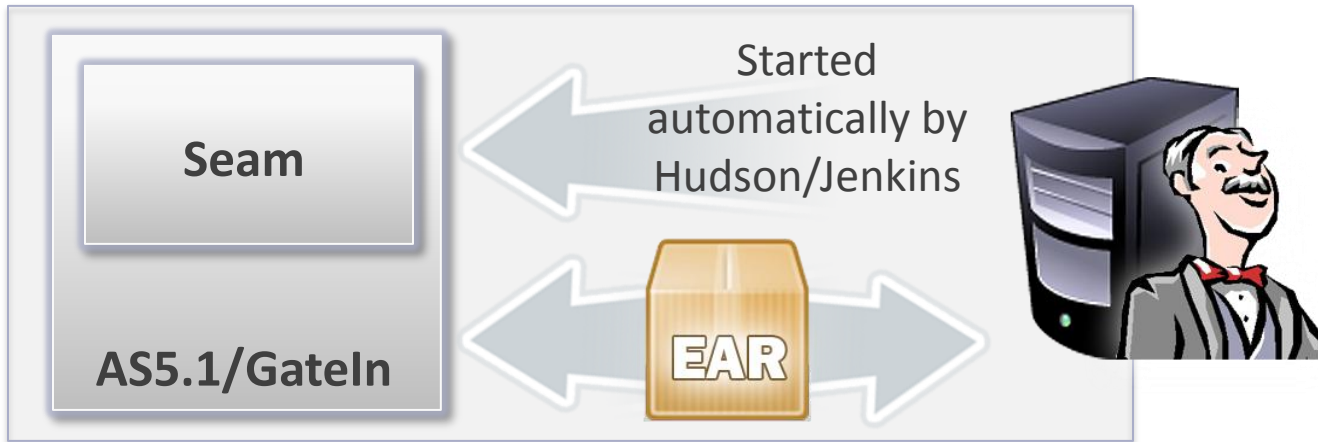
Fokus

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**



```
<?xml version="1.0" encoding="utf-8"
<struts xmlns="http://struts.apache.org/struts-2.0.dtd"
<action name="login" class="com.akquinet.seam.LoginAction" method="login"
<result type="struts:redirect" value="/loginSuccess"
</struts>
```

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
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	remote	Java EE 6	arquillian-jbossas-remote-6
JBoss AS 6.0	managed	Java EE 6	arquillian-jbossas-managed-6
JBoss AS 6.0	embedded	Java EE 6	arquillian-jbossas-embedded-6
JBoss Reloaded 1.0	embedded	JBoss MC	arquillian-reloaded-embedded-1
GlassFish 3.1	remote	Java EE 6	arquillian-glassfish-remote-3.1
GlassFish 3.1	embedded	Java EE 6	arquillian-glassfish-embedded-3.1
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 SE 1.1	embedded	CDI	arquillian-weld-se-embedded-1.1
Weld EE 1.1	embedded	CDI	arquillian-weld-ee-embedded-1.1
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.Alpha5 out**, 1.0.0.Beta1 diesen Monat
- JBoss AS7 - Unterstützung
- Weitere Container – Weblogic, Spring, Hibernate, Drools...
- Frameworks: Selenium, DBUnit
- Multiple Deploy Against Containers
- Cloud Deployment (jClouds, Steamcannon/DeltaCloud)

- **E-Mail**

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- **Twitter**

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- **Source Code**

- <http://github.com/michaelschuetz/seamArquillian-linuxtag2011>