Seam 2:
Real Integration Testing with Arquillian

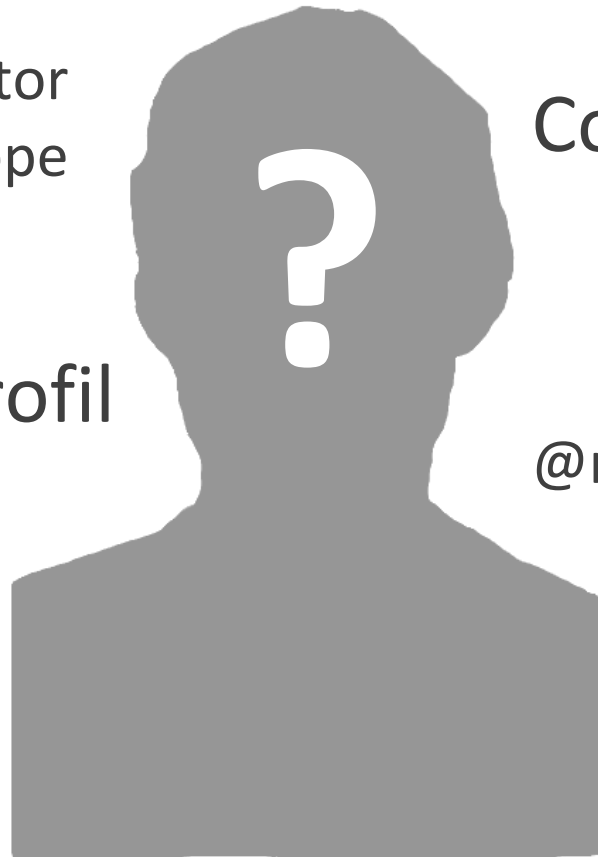Michael Schütz

Michael Schütz

Moderator
Seam-Gruppe

Contributor

?

Profil

@michaelschuetz

BED-Con 2011 (-:

Agenda

Was erwartet Euch heute?

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

Seam 2? Ich dachte das ist veraltet?

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
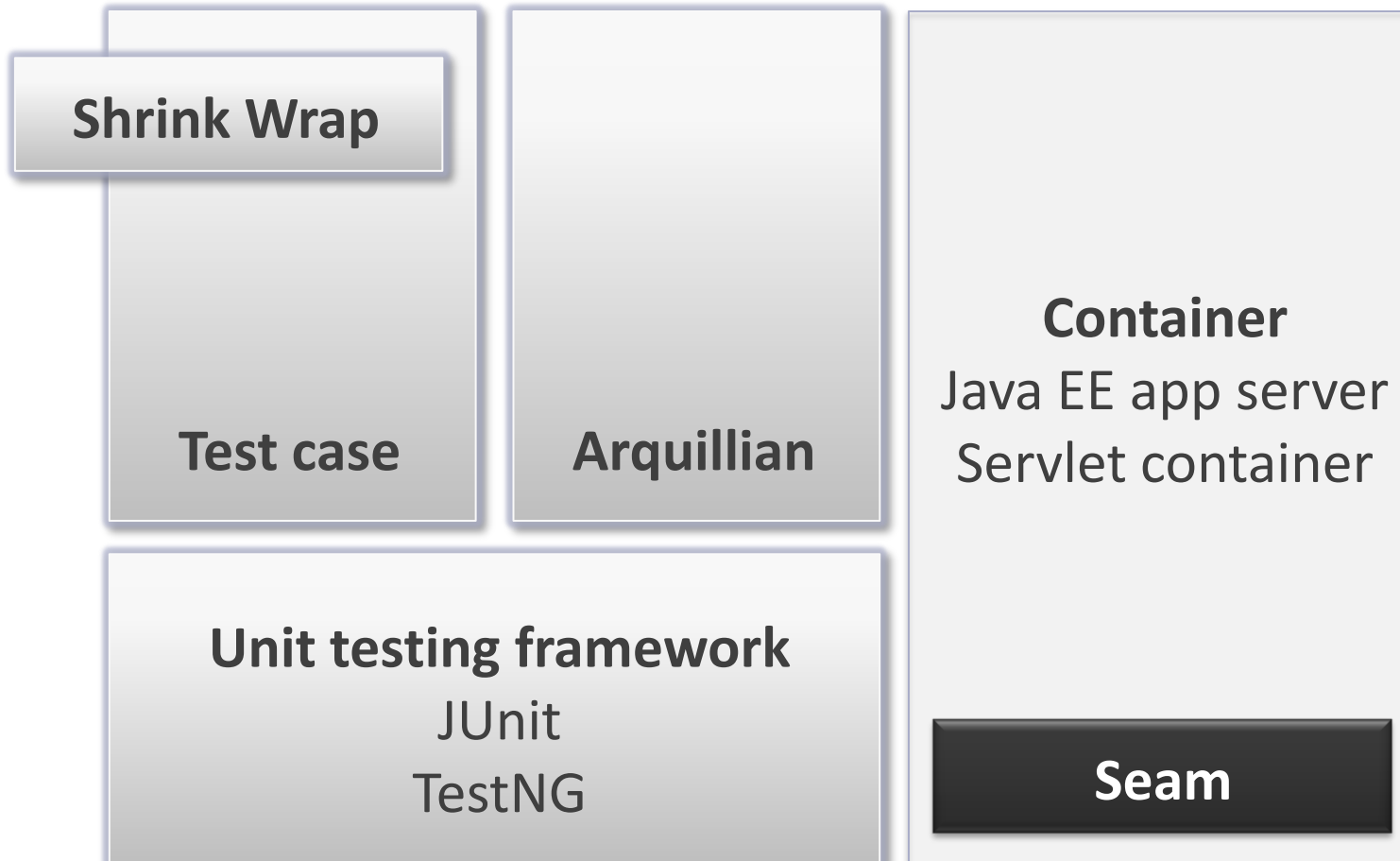
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Auf einen Blick

- 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 …

Shrink Wrap

Test case

Arquillian

Container
Java EE app server
Servlet container

Unit testing framework
JUnit
TestNG

Seam

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3 Szenarien

1.
SAP-Integration

2.
JMS: AS4.2.3 – AS 5.1

3.
Seam 2-Integration

EJB3, JCA Container Configuration

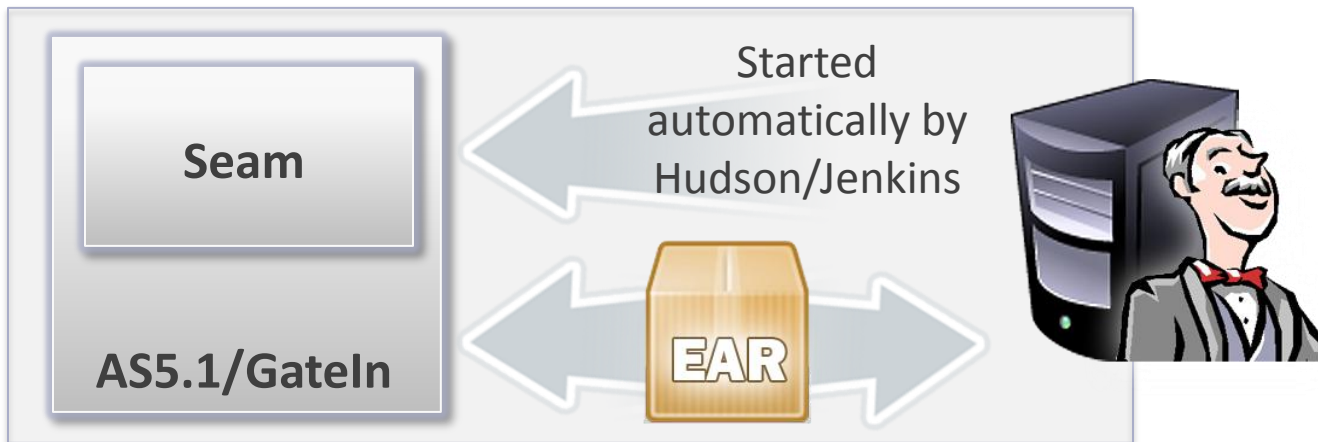*Multiple Container, Cargo*

Fokus

Praxis – Seam 2-Integration

Lokale Entwicklung

- Remote Container
- Deployment gegen laufende Instanz
- Schnelles Feedback
- **mvn verify -Pit,jbossas51_remote**

Praxis – Seam 2-Integration

CI – Continuous Integration

Started automatically by Hudson/Jenkins

Seam

AS5.1/GateIn

EAR

- 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**

Seam 2 und Arquillian Roadmap

- API Support → Arquillian Extension?

- Extending → @In Enricher

- MavenArtifactResolver → ShrinkWrap API

- JSFUnit Arquillian Integration

Multiple Containers

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 this week (-;

- Weitere Container – Weblogic, Spring, Hibernate, Drools…

- Frameworks: Selenium, DBUnit

- Multiple Deploy Against Containers

- Cloud Deployment (jClouds, Steamcannon/DeltaCloud)

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■ **Source Code**

   – http://github.com/michaelschuetz/seamArquillian-bed2011