



Arquillian Real Java EE testing

Michael Schütz

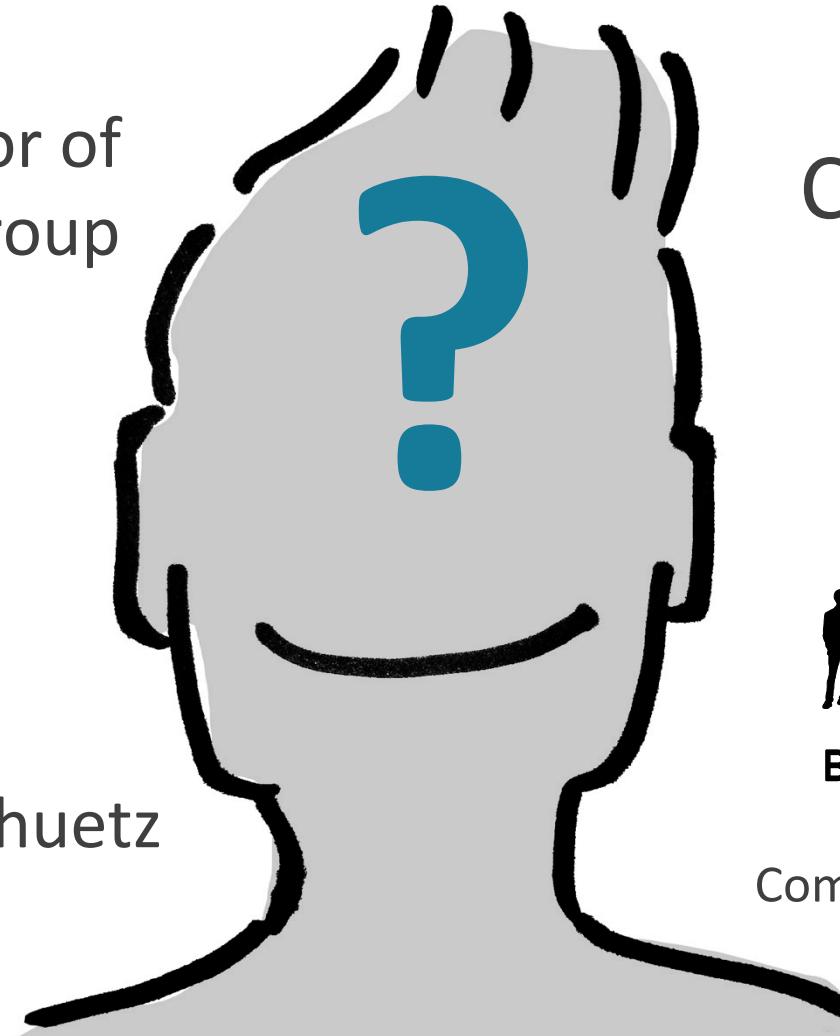


Who I am...

Moderator of
Seam group

Profile

@michaelschuetz



Michael Schütz

Contributor



BerlinExpertDays 2011

Coming soon: BED-Con 2012

Agenda

What will you expect today?

- Introduction
- Arquillian warm up
- Java EE 6 integration
- Code
- Arquillian in a Java EE 5 environment
- Code
- The future



What are the key issues?

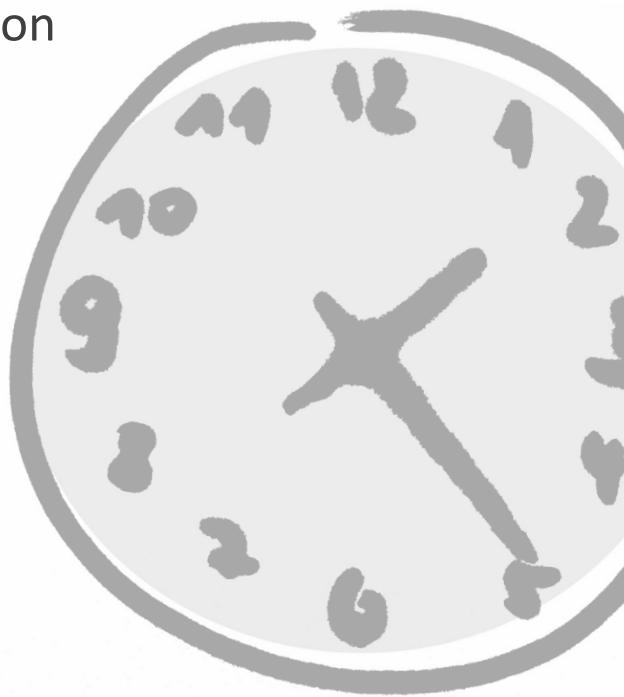
- Project lead: Aslak Knutsen
- Archives
 - ShrinkWrap
- Multiple Test frameworks
 - JUnit, TestNG
- Multiple Run modes
 - In container, as client
- Multiple Enrichers
 - CDI, EJB, Resources
- Multiple Containers



ShrinkWrap – Skip the Build!

Saving time...

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



The new stack is ready...

Java EE 6, CDI, Weld, Seam 3, JSF 2, GF3, JBossAS 7



RichFaces

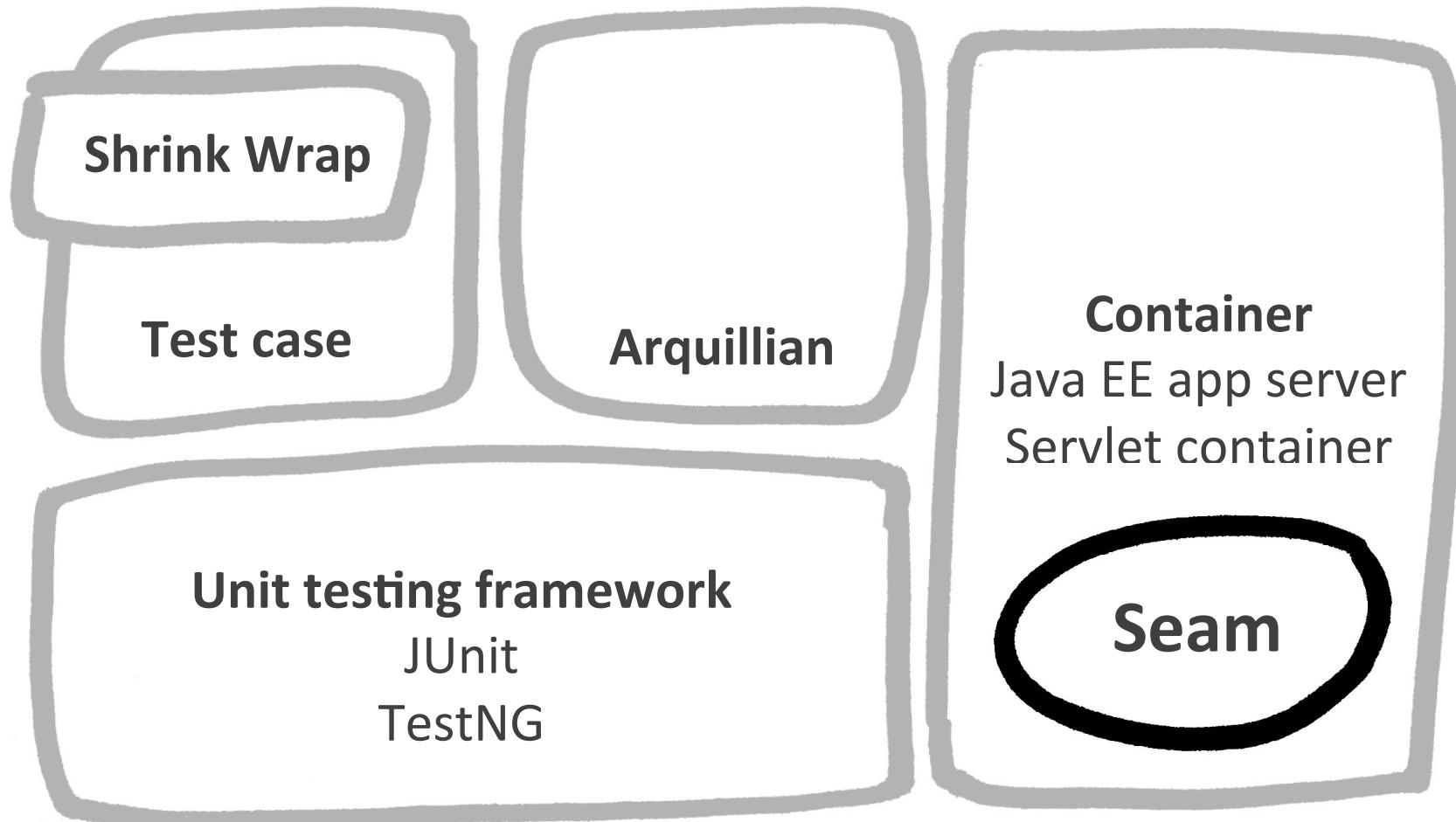


Seam 3



JBoss **Application Server 7**

Combining Arquillian and Seam...

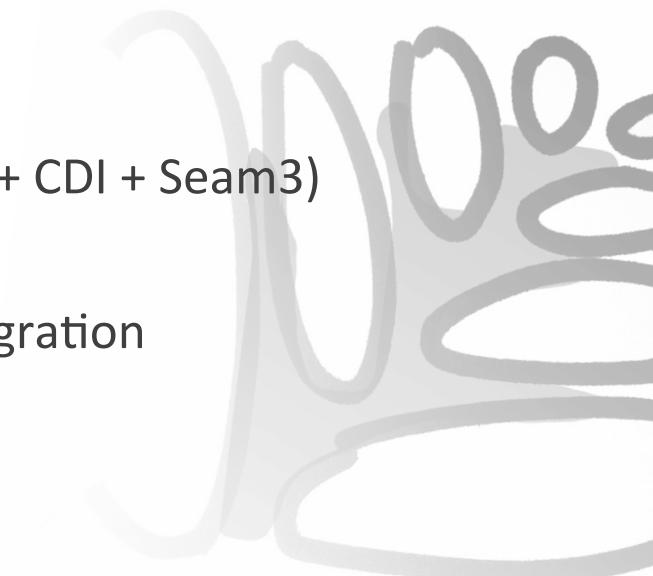


Java EE 6...



Still Seam 2 in projects?

- Portal Context!
 - GATEIn 3.1. “final” (JBoss Portal + exo + JBoss AS 5.1)
 - deep Java EE 5 integration
- No JSF 2 Portlet Bridge ready to use
 - JBoss Portlet Bridge 3.0.0.ALPHA (JSF2 + CDI + Seam3)
- JBoss AS6 / AS7 integration
 - No official GATEIn AS6 / AS7 portal integration

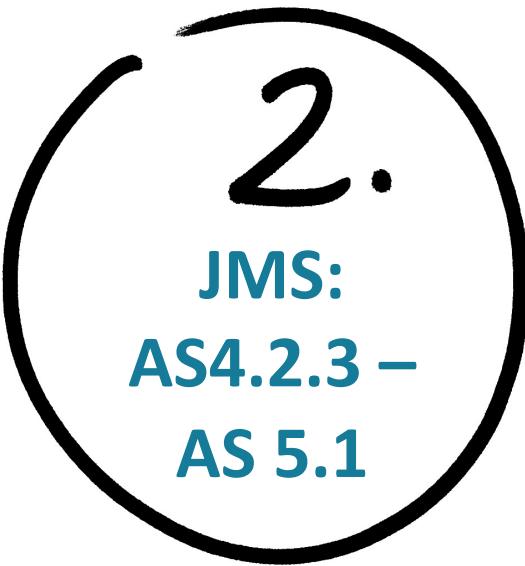


Real practice

3 Use Cases



EJB3, JCA container configuration



multiple containers, Cargo



focus

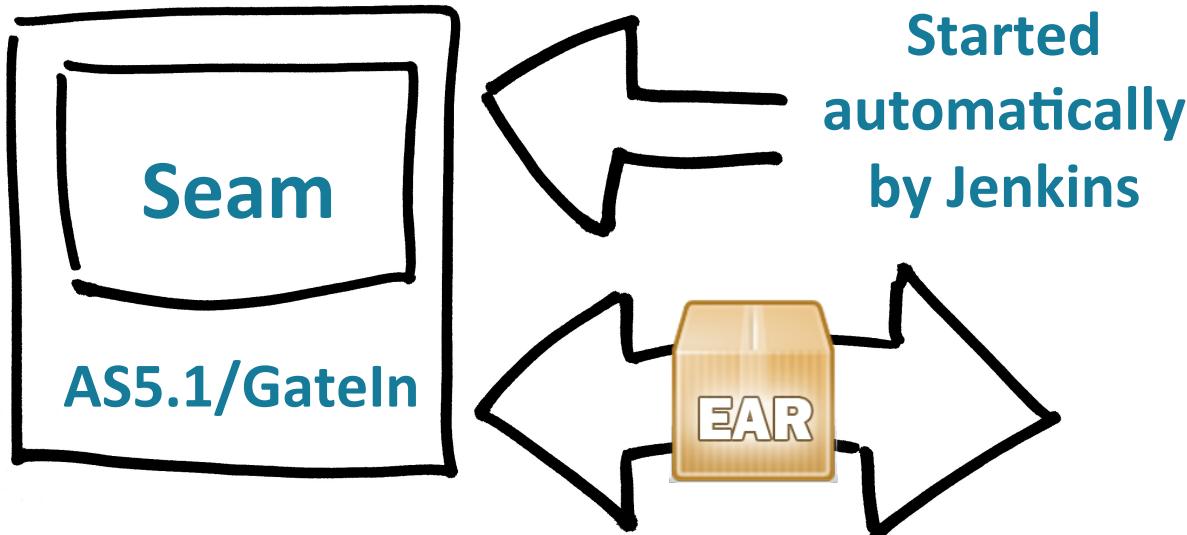
Practice – Seam 2-Integration

Local development



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

CI – Continuous Integration



- Managed container
- Automatic nightly Hudson/Jenkins build
- Full Lifecycle support
- **`mvn verify -Pit,jbossas51_managed`**



1. EJB injected Seam test
2. Native Seam injection

injection

```
total timer 1 second
Informer notifier plugin sending notification to: admin@akquinet.dnsalias.com
Info[Info] upstream projects of tomcat-annotation
[akquinet@tomcat-annotation ~]
```

Multiple containers

Container name	Container type
Apache OpenEJB 3.1	Embedded
Apache OpenWebBeans 1.0	Embedded
GlassFish 3.1	Embedded
GlassFish 3.1	Remote
JBoss AS 5.1	Managed
JBoss AS 5.1	Remote
JBoss AS 5	Remote
JBoss AS 6.0	Embedded
JBoss AS 6.0	Managed
JBoss AS 6.0	Remote
JBoss AS 7.0	Managed
JBoss AS 7.0	Remote
JBoss Reloaded 1.0	Embedded
Jetty 6.1	Embedded
Jetty 7.0	Embedded
Tomcat 6.0	Embedded
Tomcat 6.0	Managed
Tomcat 6.0	Remote
WAS V7.0	Remote
WAS V8.0	Embedded
WAS V8.0	Remote
Weld EE 1.1	Embedded
Weld SE 1.0	Embedded
Weld SE 1.1	Embedded

The future

- **1.0.0.CR5 out**, Final expected in next few weeks
- More containers – Weblogic, Spring, Hibernate, Drools...
- Frameworks: Selenium, DBUnit
- Multiple deploy against containers
- Cloud deployment (jClouds, Steamcannon/DeltaCloud)
- MavenArtifactResolver → ShrinkWrap API
- JSFUnit Arquillian integration

Thank you

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Source Code

<https://github.com/michaelschuetz/seamArquillian-jbodt2011>