# Java EE distributed

- Expert Group Member (jcp.org) of Java EE 6, Java EE 7, JPA 2.1, EJB 3.2, CDI 1.1, JMS 2.0 (...)

- Java Champion, (JavaONE) speaker + rockstar, freelancer, consultant and author: >100 articles, 7 German books

- Author: "Real World Java EE Patterns– Rethinking Best Practices" and "Real World Java EE Night Hacks"  http://press.adam-bien.com

- more: **about.adam-bien.com**

# Real World Java EE Night Hacks

## Dissecting the Business Tier

[ Iteration One ]

CDI REST JPA2 JMX

EJB 3.1 JAX-RS Maven 3 Java EE

ScalaTest Hudson DevOps BASE

Arquillian JUnit CI Stress Test

X-RAY

**Adam Bien**

Foreword by James Gosling

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REAL WORLD

# JAVA EE PATTERNS

## RETHINKING BEST PRACTICES

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# CAP vs. FLP (Fischer, Lynch and Patterson)

# Serialization, Externalization and optimizations

# Object oriented vs. record based persistence

Why home-grown persistence framework implementation is challenging (impossible?)

# Introduction to Java EE with focus on persistence

# JPA usecases, samples and scenarios

# Column and row based stores

# What is map-reduce? Samples and use cases.

# Domain Driven vs. Service Oriented applications

# Integration of NoSQL databases

- Cassandra

- Oracle NoSQL Database (KV Store)

# Distributed and persistent caches

- Infinispan (JBoss Cache)

- Hazelcast

Principles: ACID, BASE, Consistent Hashing, Copy On Write, Lazy / Eager Loading, Optimistic / Pessimistic Locking

# JPA features and caveats

# Queries, mapping, and relations

# Typesafe vs. "fluid" schemas

# Schema and database evolution

# Clustering, replication, distribution and invalidation

# Caching strategies and implementations

Normalization vs. denormalization and redundancies as best practice

# Declarative vs. programmatic queries

# Data binding strategies (with e.g. JavaFX)

# Persistence in Web frameworks and rich clients

# Performance and memory optimizations

# JPA in managed and unmanaged environments

# Entity serialization and remoting

# Bean Validation and JPA

# Unit- and Integration Testing with and without mocks

# Persistence Patterns

# Data Access Object

# Data Transfer Object

# Lazy and eager loading

Interesting, but proprietary vendor extensions

# Thanks && see you:

Bootstrap, Effective, Architecture and: Java EE 7 Delta Workshop, July 22-26th, 2013

Java Persistence, November 21st, 2013

# Thank You!

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