

JavaEE architectures

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"It's not work if you like it"
...so I never worked. #java



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Real World Java EE Night Hacks

Dissecting the Business Tier

[Iteration One]



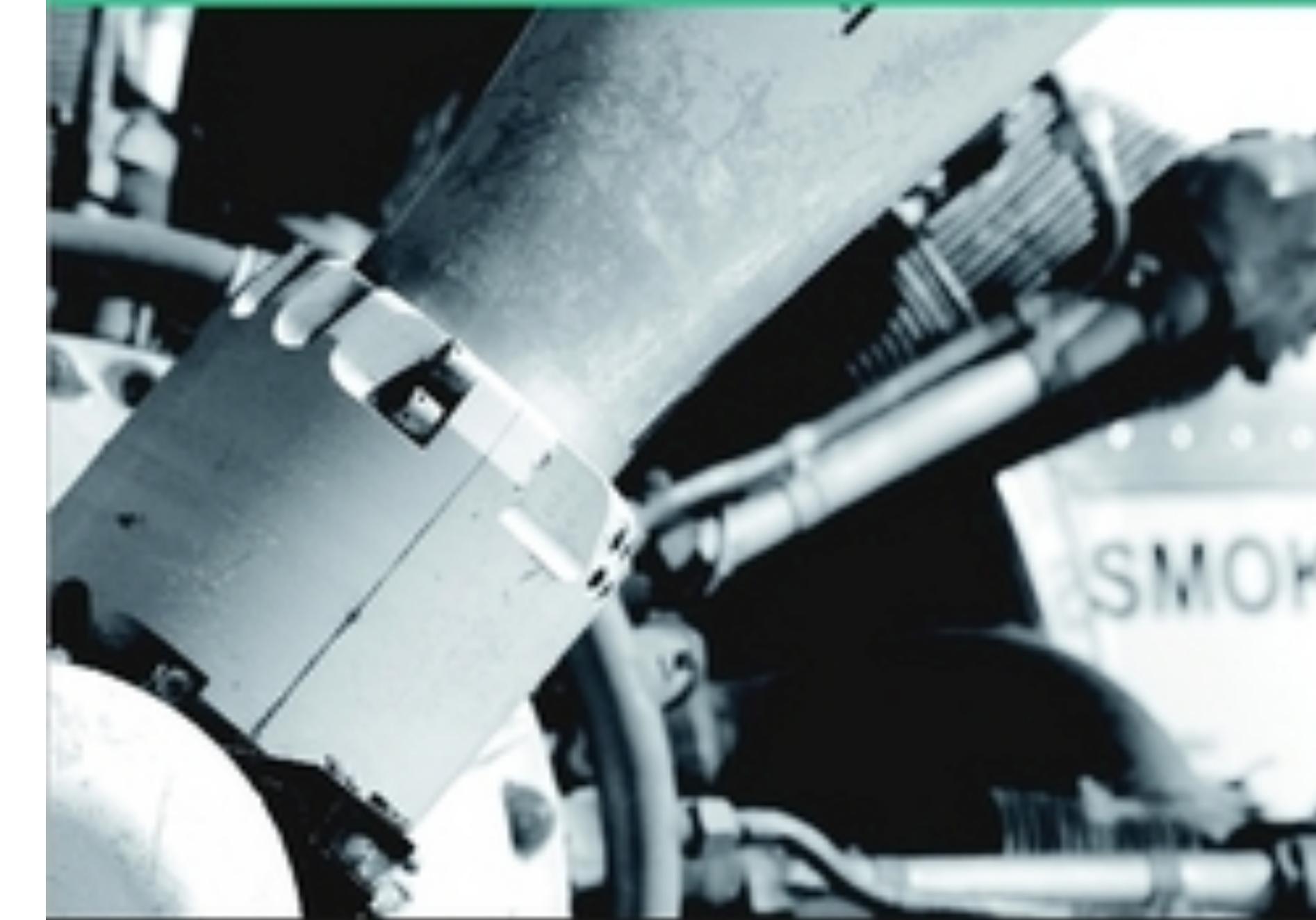
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Foreword by James Gosling

REAL WORLD

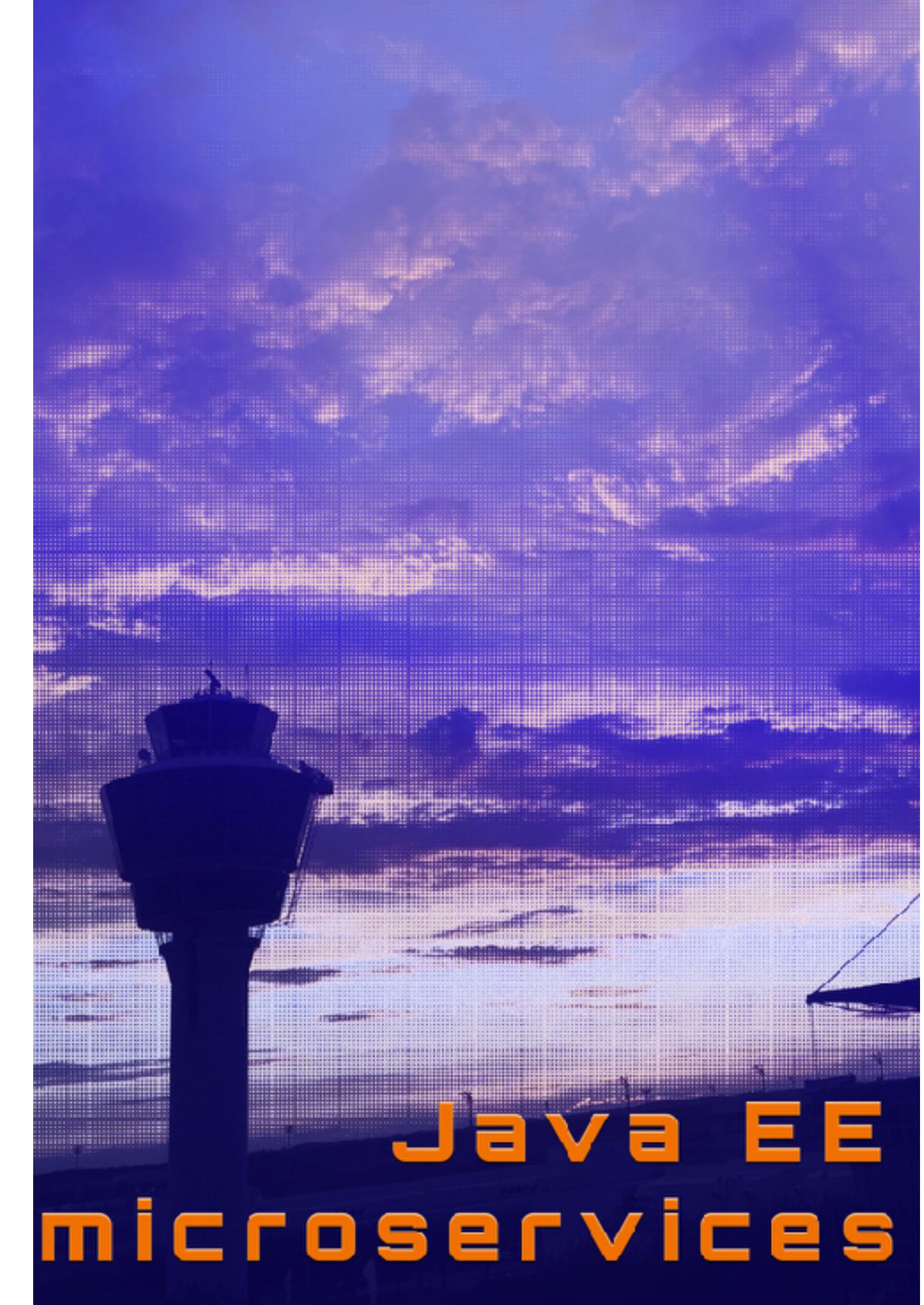
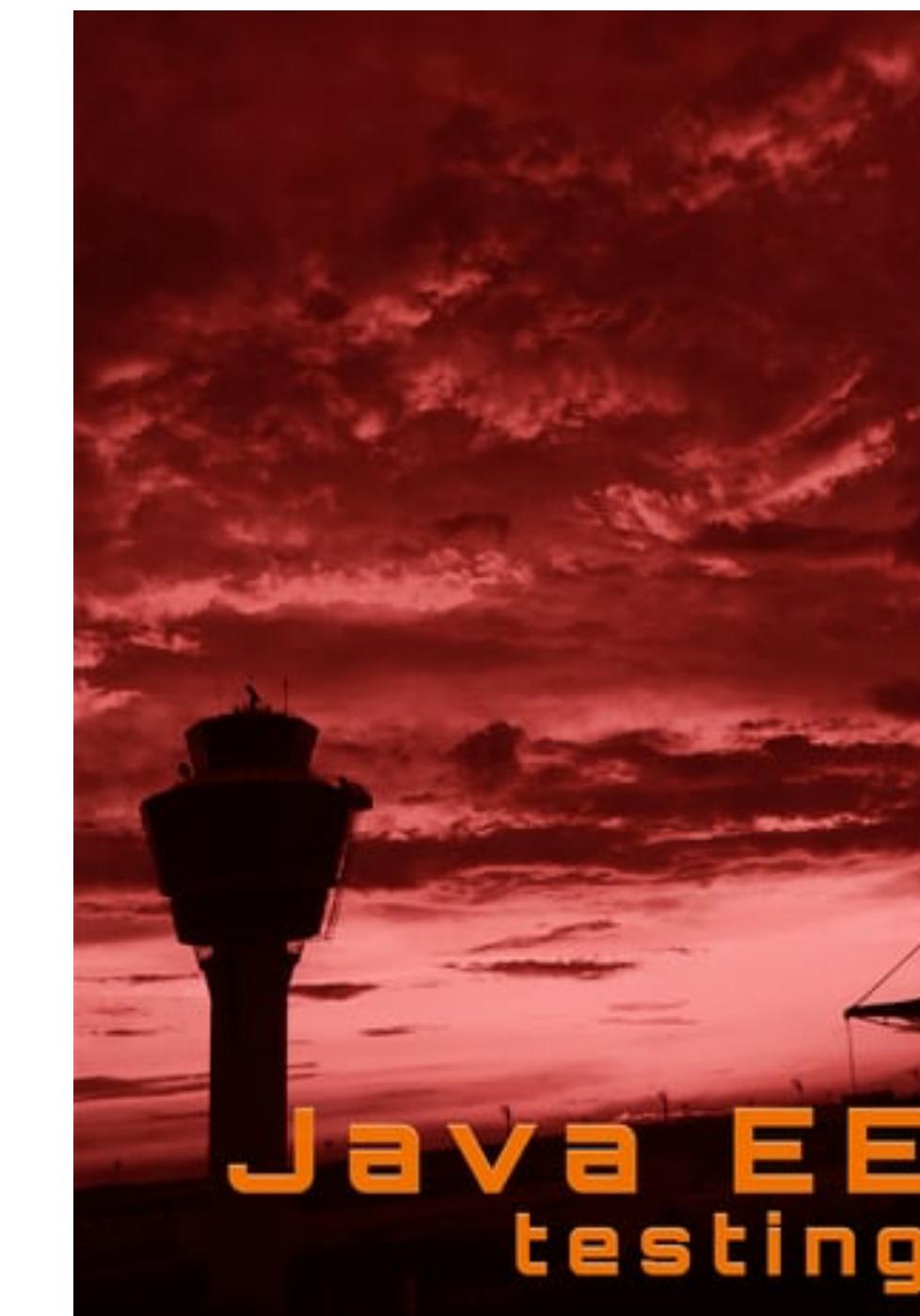
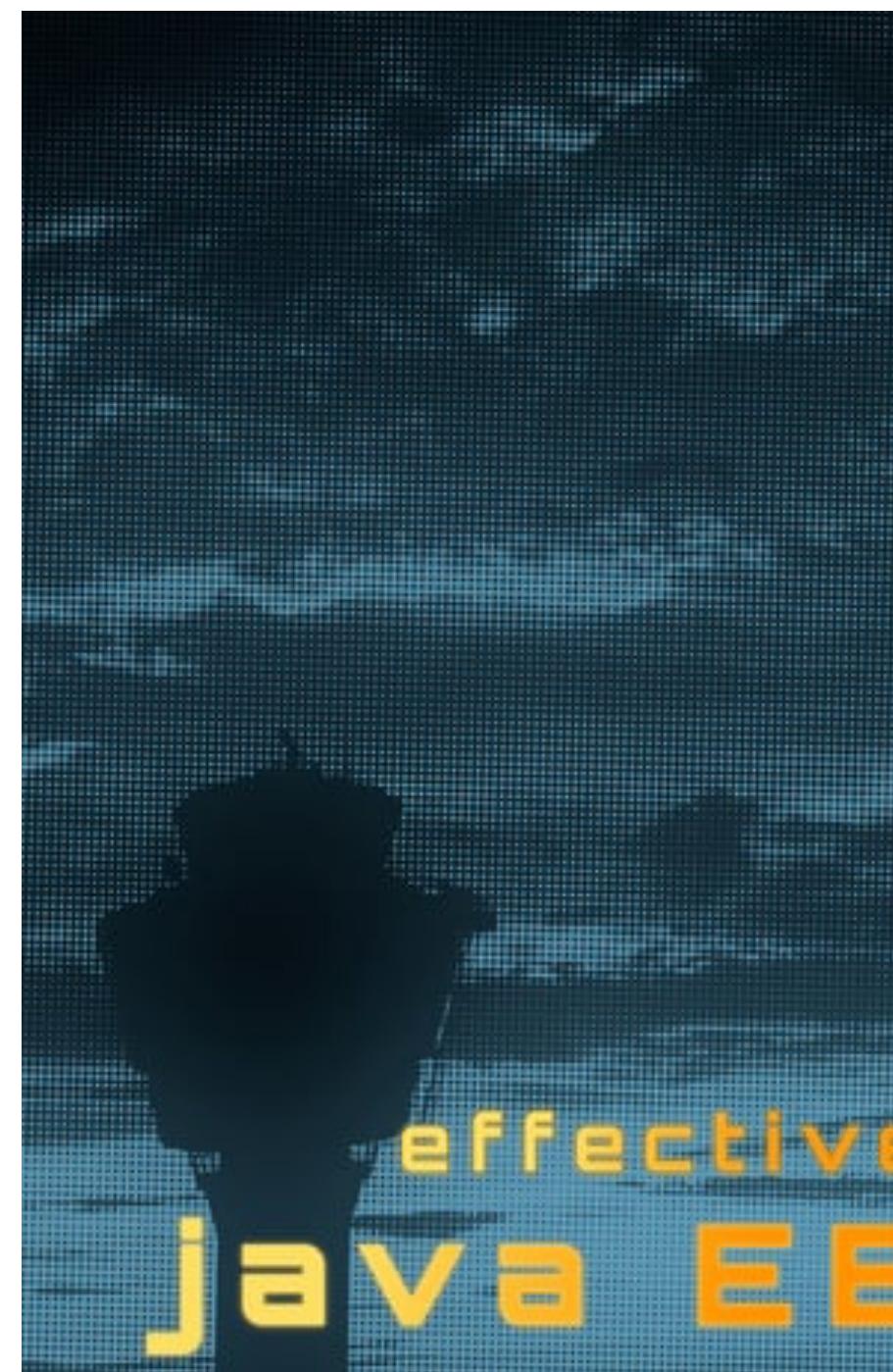
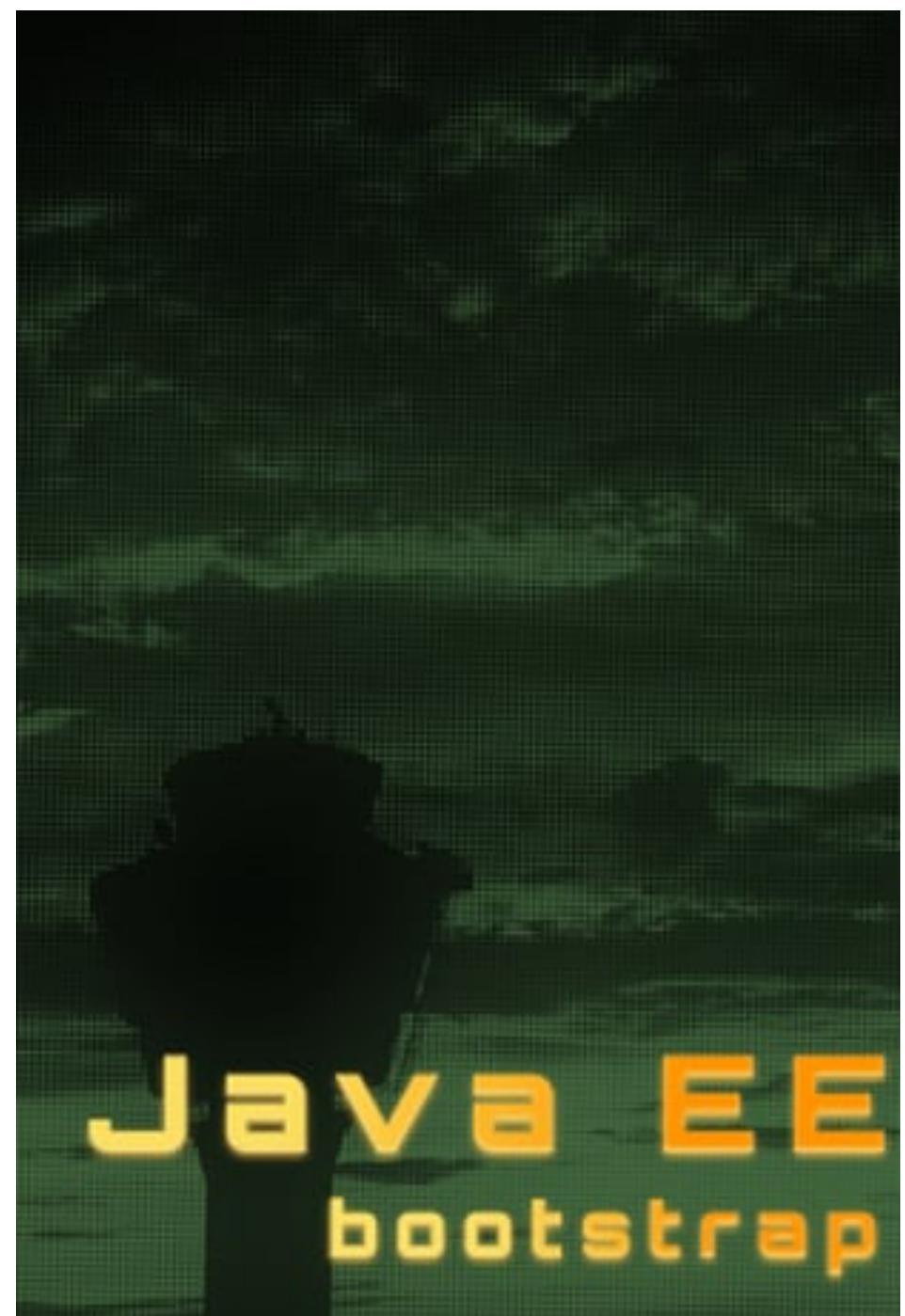
JAVA EE PATTERNS

RETHINKING BEST PRACTICES



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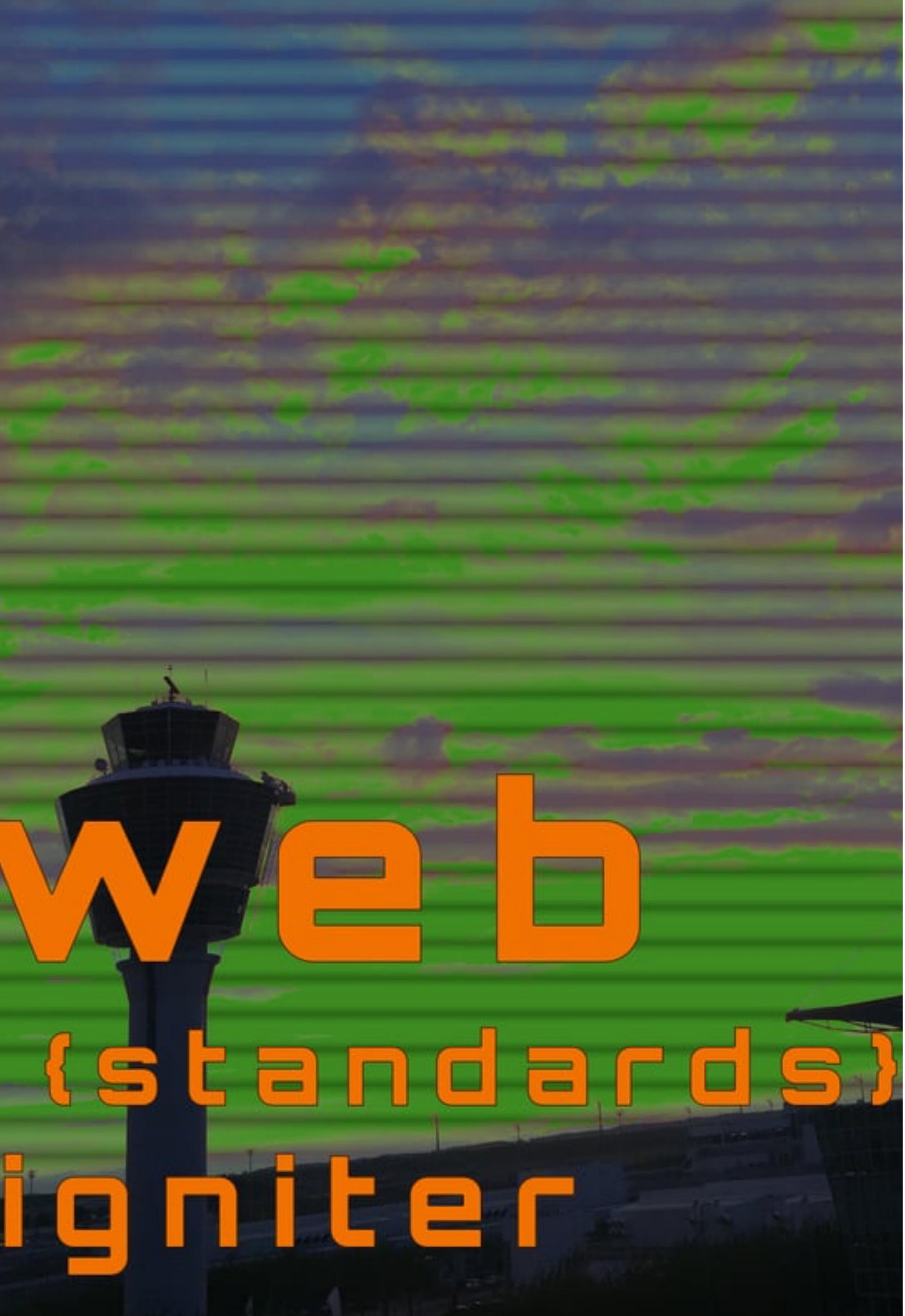
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<http://webstandards.training>

The background of the slide features a night sky filled with horizontal clouds in shades of blue, purple, and green. In the lower-left foreground, there is a dark silhouette of what appears to be a lighthouse or a tall tower. Overlaid on this image is the text "web {standards} igniter" in a large, orange, sans-serif font.

web
{standards}
igniter

Meta: How To Start a Project?

Understanding CAP in Java EE context

**CAP vs. FLP (Fischer,
Lynch and Paterson)**

In an asynchronous network where messages may be delayed but not lost, there is no consensus algorithm that is guaranteed to terminate in every execution for all starting conditions, if at least one node may fail-stop.

Hardware Costs

Sun E10K	
	<p>E10K Server - Enterprise 10000 Server - Sun Microsystems</p> <p>Sun Enterprise E10000 Server. This is a complete server with all system boards, power supplies, fan trays etc. It was installed at AOL and was in good working order until it was deinstalled. The CPU's and memory have been removed, but this is a great machine for parts. If you are supporting E10K servers, this is a perfect spare. Click here for technical information on the Sun Fire E10K server</p> <ul style="list-style-type: none">• 30-Day Warranty on all hardware• Great for spare parts. Complete list of installed options is available upon request.• Can ship today• in stock. Call for availability on quantities over 1
<p>Delta Marketing Group, Inc. since 1986</p> <p>We would also be happy to take your order or answer any questions over the phone 480-367-6698</p> <p>For Sales dial 1</p> <p>or Michael Hankerson extension 101</p>	<p>Manufactured By: Sun Microsystems</p> <p>Print Product Description Email a Friend</p> <p>Sign-up for Monthly Specials Update My Profile</p> <p>List Price: \$1,200,000.00 Qty <input type="text" value="1"/> qty: Add To Cart \$1,995.00</p>

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Support



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We're busy updating the Apple Store
for you and will be back soon.



Store

Mac

iPod

iPhone

iPad

iTunes

Support



Wir sind bald wieder da.

Wir aktualisieren gerade das Angebot
im Apple Online Store. Die Seite ist
demnächst wieder verfügbar.



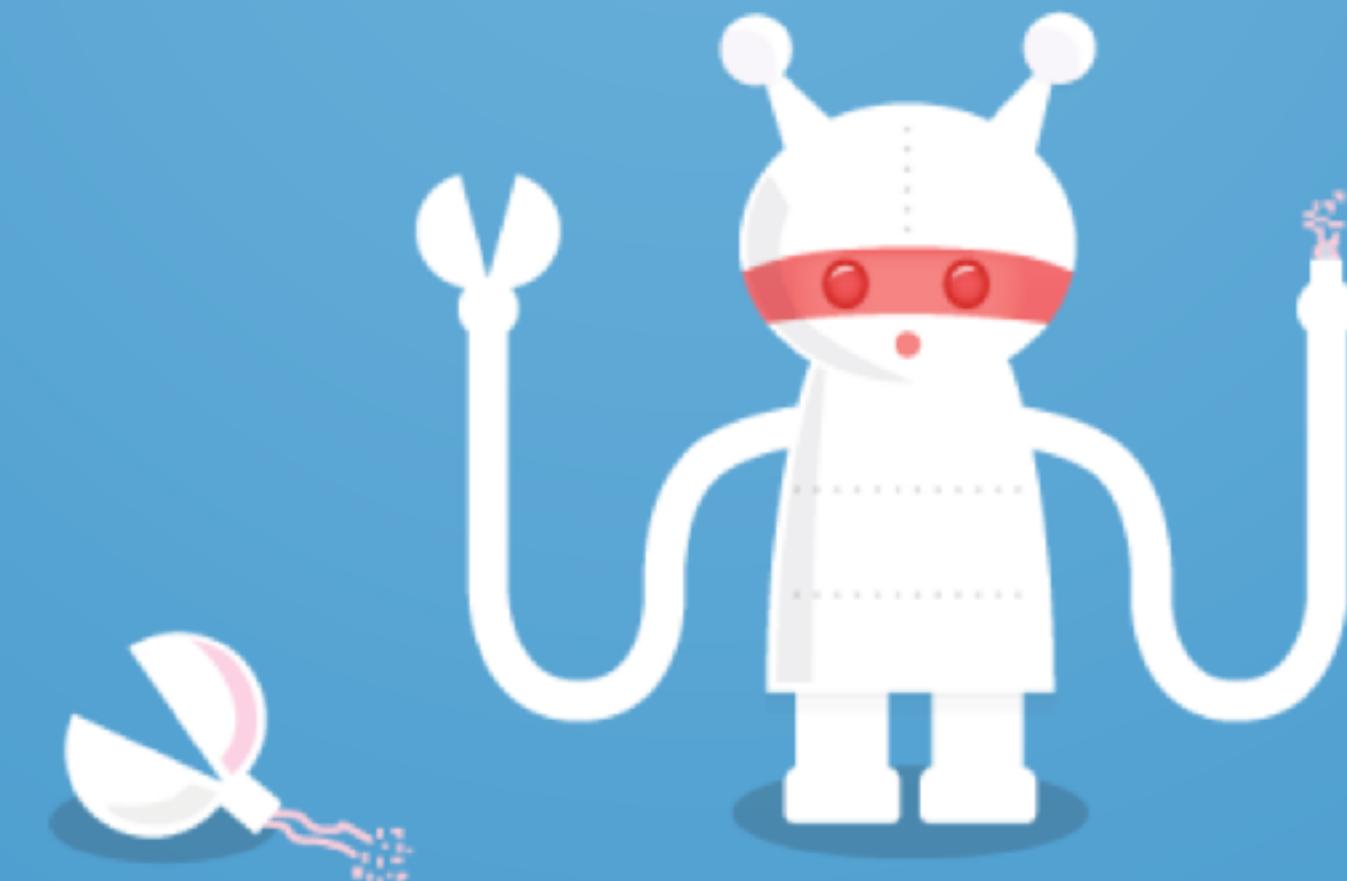
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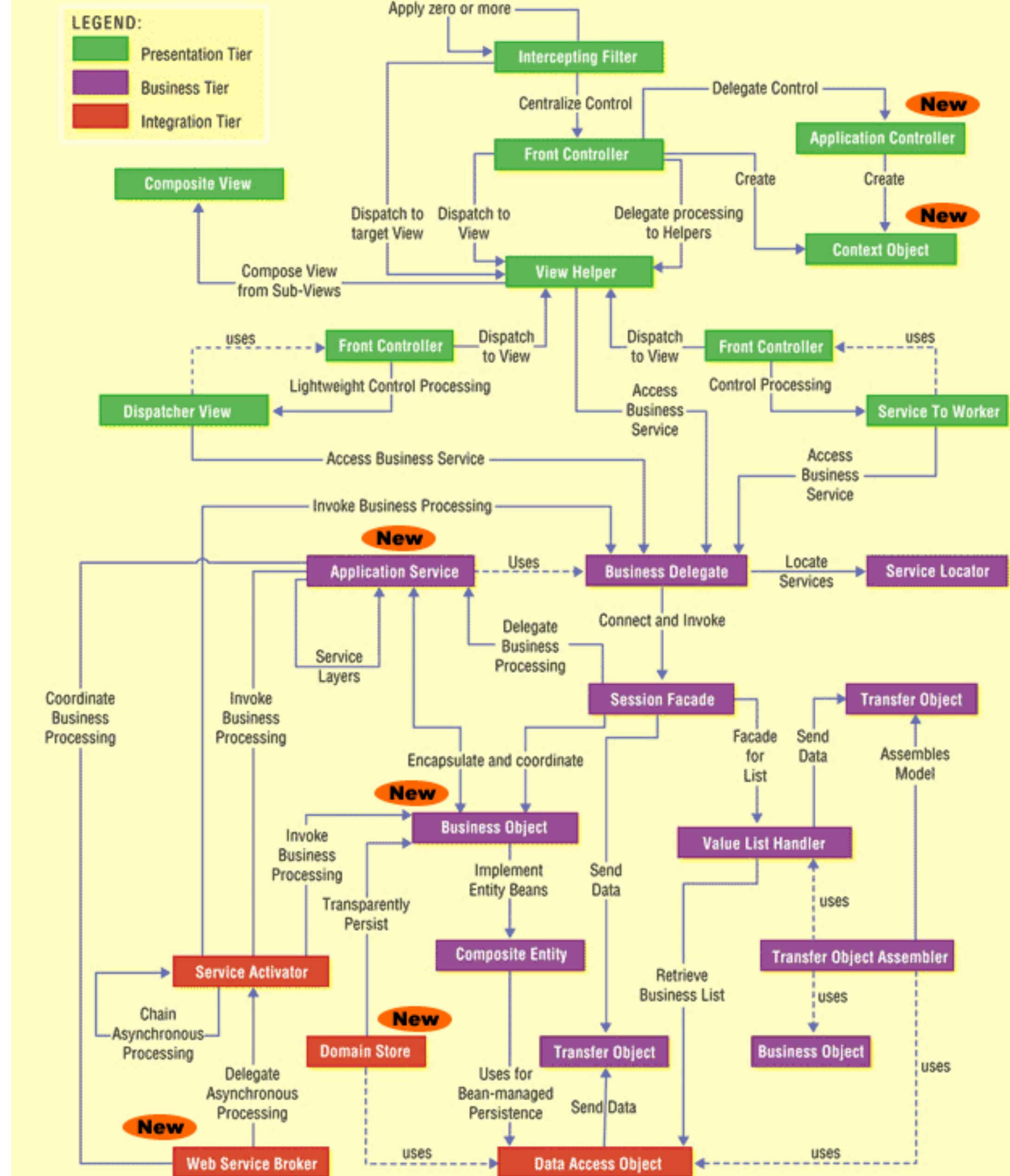
Apple uses industry-standard encryption to protect the confidentiality of your personal information.

**BASE vs.ACID, or how
to start a project**

Clear Code

Deprecated J2EE Patterns

Core J2EE Patterns, 2nd Edition



GoF Patterns

Factory, Abstract Factory, Singleton, Builder,
Prototype, Adapter, Bridge, Decorator, Facade,
Flyweight, Proxy, Template, Observer,
Command, Strategy, State

Documentation and Test

Cargo Cult?

"Cargo cult programming is a style of computer programming characterized by the ritual inclusion of code or program structures that serve no real purpose."

[http://en.wikipedia.org/wiki/Cargo_cult_programming]

Conway's Law

Microservices

Deployment Strategies

- Blue-Green Deployment
- Hot Deployment
- Virtualization
- Containers

GRASP

- High Cohesion, Minimal Coupling
- Protected Variations
- Information Expert
- Polymorphism
- Pure Fabrication

Immutable Infrastructure

Pragmatic modularization of Java EE applications

Structuring

- The Vision
- Cohesion <-> Coupling
- Essential Entities and Business Components
- “Maximal Cohesion, Minimal Coupling”

Caveats of asynchronous applications

RESTful architectures vs. SOAP

Logging, errorhandling

- Who needs logs?
- Error classification
- Audits and traces

Management and monitoring

- JMX, REST
- "Business monitoring"
- Automated setup and deployment

Continuous Integration and Continuous Deployment

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