

DON'T BE  
AFRAID...  
OF THE  
cloud



# Getting Visibility & Taking Control of your Java Applications in the cloud

Java Forum Stuttgart 2011  
7. Juli 2011

## Introducing the speaker

---



**Rainer Schuppe**  
Manager Technical  
Services, codecentric AG

Who We Are

---

**codecentric**

- Agile Software Factory
- Performance Solutions
- Enterprise Content Management

**The promises**

---



# Agile Elastic Capacity Virtualization

The fears

---

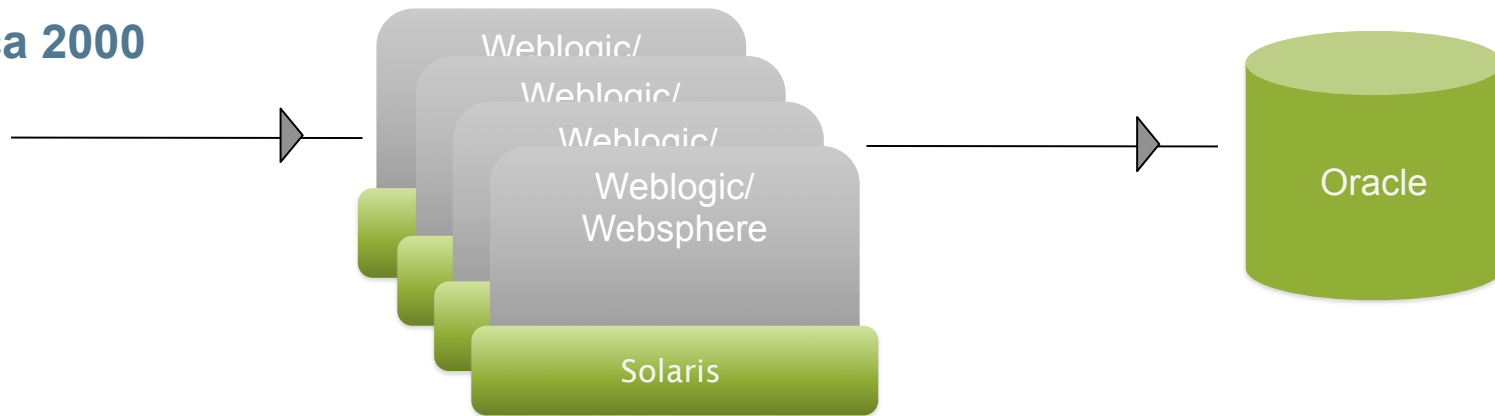


Insecure  
Unavailable  
Uncontrollable

# Good old days

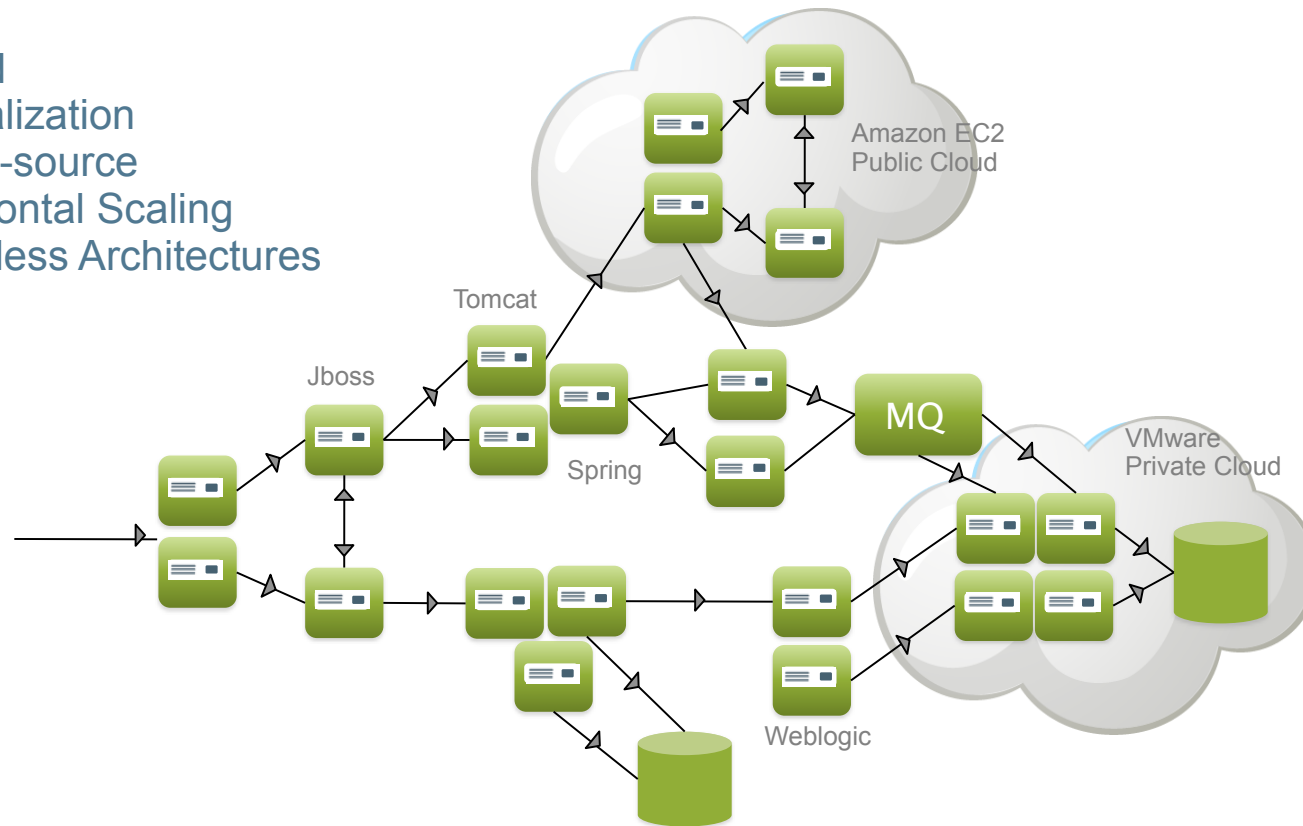
---

**Circa 2000**



# Today

- SOA
- Cloud
- Virtualization
- Open-source
- Horizontal Scaling
- Stateless Architectures





# *IN A* PERFECT WORLD

PRODUCTION OPERATIONS ★ DEVELOPMENT & QA



Developers can focus  
on innovation

24/7 visibility to proactively  
determine root cause

# *IN THE* **REAL WORLD**

Development  
doing Monitoring

Unhappy  
Customers

Long MTTR

Can't recreate  
the problem

No  
Innovation

Endless war-  
room calls

Business  
Pressures

Forced  
Re-starts

DEVELOPMENT & QA

PRODUCTION OPERATIONS

## Mean-time-to-Resolution (MTTR) Metrics



2.47



7.45



45





**DISCOVER** and visualize  
your application topology  
and business transactions



**MONITOR** 24/7 what matters most—  
your key business transactions

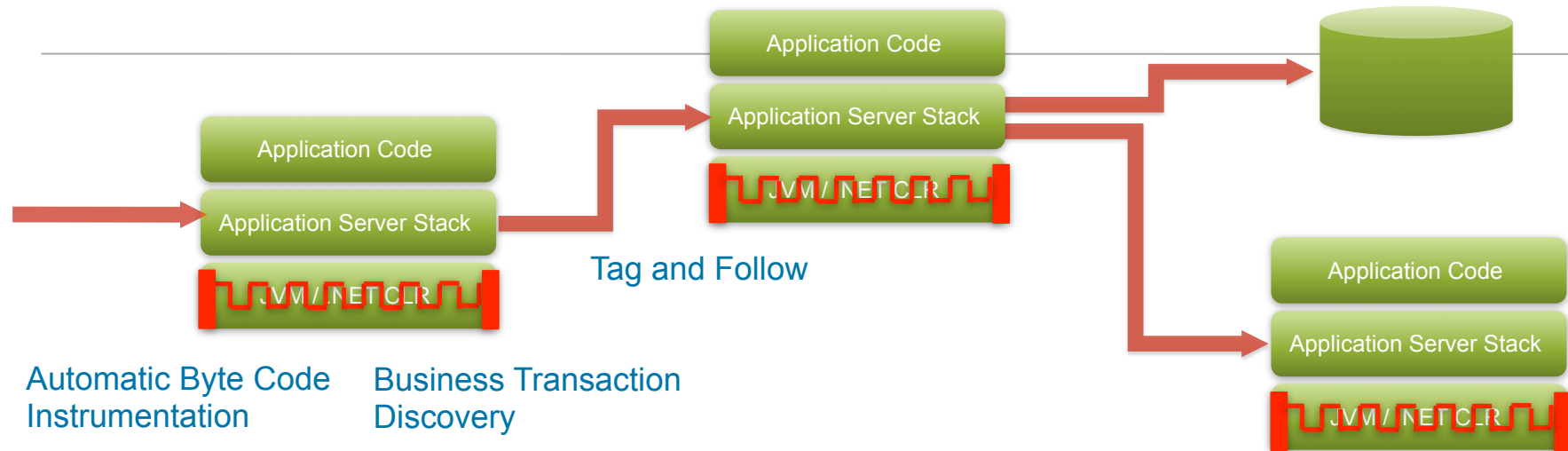


 **TROUBLESHOOT** performance  
and availability issues



**DIAGNOSE** the root cause  
of the problems 90% faster

# Dynamic Flow Mapping™



- 1 Byte Code Instrumentation (BCI) injected
- 2 Business transactions identified
- 3 Tag and Follow across tiers
- 4 Create transaction flow w/ tiers & services

- **Extremely lightweight**
- **Less than 2% overhead**
- **No Code changes**
- **100% Visibility**
- **Code-Level Diagnostics**
- **Callstack Analysis**

# App Problems - AppDynamics Solutions

---

- ✓ **Simple**
- ✓ **Wide**
- ✓ **Deep**
- ✓ **Intelligent**
- ✓ **Dynamic**



# AppDynamics 3.2 Demo

# The Bottom Line

---

- ✓ **100% Visibility**
- ✓ **Proactive Problem Solving**
- ✓ **Improved MTTR**
- ✓ **DevOps Alignment**
- ✓ **Cloud-ready**

# Who is AppDynamics

---

The leading provider of application management for distributed applications in production

---

## Our Heritage



## Company Facts

- Founded in 2008, Venture Funded
- Based in San Francisco
- >25,000 users of AppDynamics Lite

## Customers and Momentum



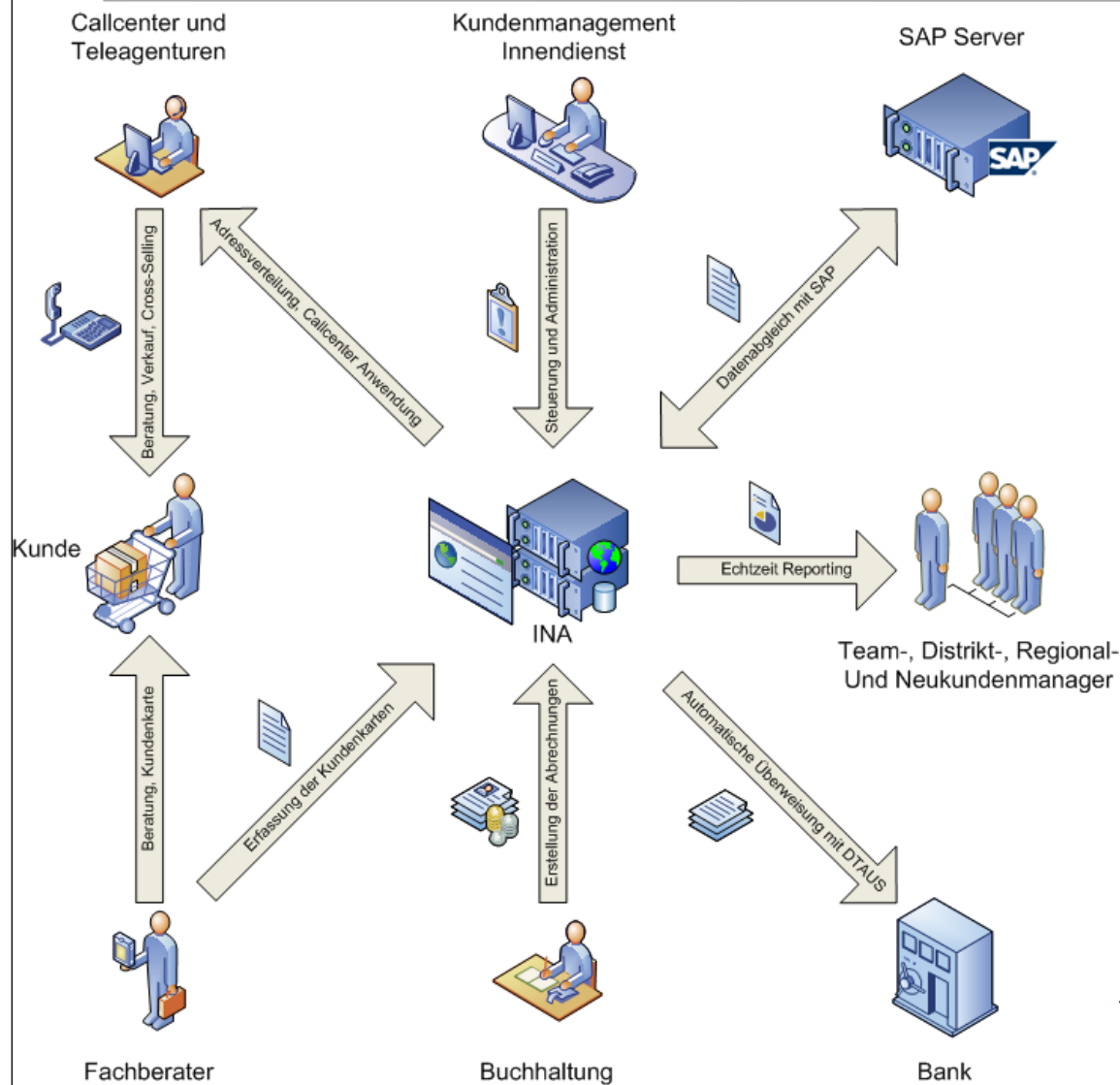
Common Thread: Using in Production in Distributed Environments to Improve SLAs and Lower MTTR

## Success Story - INA

---



# INA – Neukunden 2.0



INA | Bearbeiten | Auswerten | Verwalten | Persönliches | Teammanager | Hilfe | ausloggen

Bearbeiten | Geschäft | Adressen erfassen

Adressen erfassen für Herr Schmidt | Bisher wurden 2 Adressen erfasst.

**\*) Pflichtangabe**

Kartennummer:  Angebe merken

PLZ:

Ort:  Kein Ort verfügbar.

VS:  Keine VS verfügbar.

Ortsteil:

Straße/Hausnr.:

Anrede: ☐ Frau ☐ Herr Keine Angabe

Vorname:

Nachname:

Telefon:

Email:

Verteildatum:

Ernährung:  Keine Angabe

TKM:  Bitte wählen

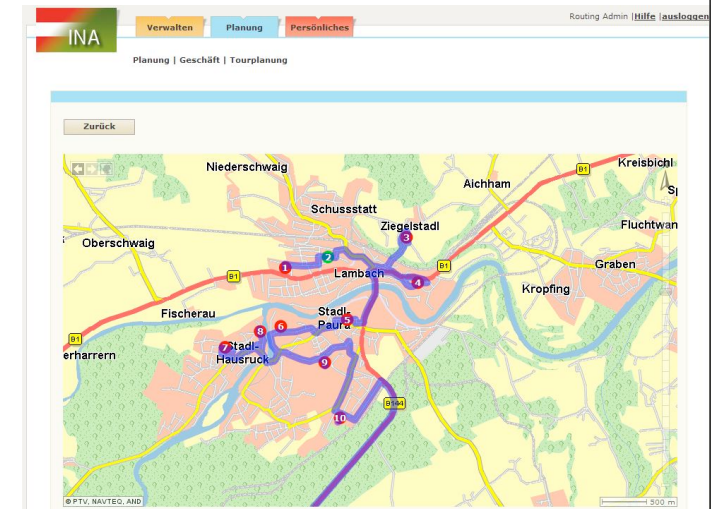
Erreichbar um:  Bitte wählen

PBC-Tipp:  Bitte wählen

Unterschrift:  Bitte wählen

Bemerkung:

| Nr. | Name    | Vorname   | Straße             | PLZ   | Stadt    | Telefon       | VS   | Löschen |
|-----|---------|-----------|--------------------|-------|----------|---------------|------|---------|
| 2   | Schmidt | Lars      | Bebelgasse 13      | 42699 | Solingen | 0212 / 987564 | 3006 | X       |
| 1   | Urban   | Christian | Grünwalder Str. 29 | 42653 | Solingen | 0212 / 456789 | 3008 | X       |

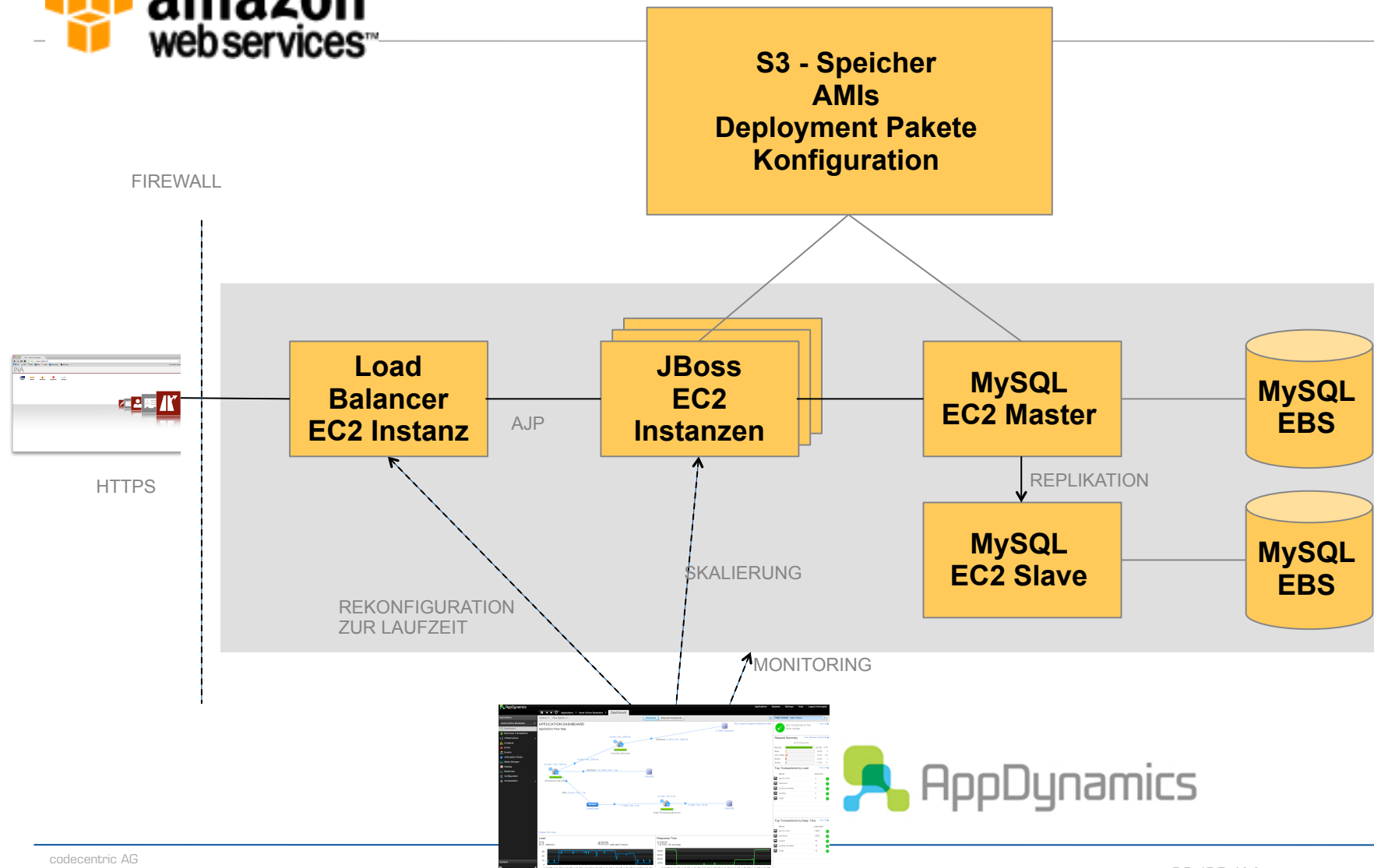


## Problem: Kosten & (In-) Flexibilität



Lösung?





| Jährliche Kosten                           | Anzahl      | Einzelpreis | Gesamt            |
|--------------------------------------------|-------------|-------------|-------------------|
| MySQL Server 24x7                          | 1 VM        | 6.306,00 €  | 6.306,00 €        |
| MySQL Server (Slave) 24x7                  | 1 VM        | 1.802,00 €  | 1.802,00 €        |
| JBoss Server (Basis) 24x7                  | 2 VM        | 1.802,00 €  | 3.604,00 €        |
| Apache Load Balancer 24x7                  | 1 VM        | 450,00 €    | 450,00 €          |
| AppDynamics Agenten<br>(2 Basis + 3 Spare) | 5 VM        | 720,00 €    | 3.600,00 €        |
| Netzwerk-Traffic                           | 1000 GB     | 0,12 €      | 116,92 €          |
| Datenbank EBS Speicher Master+Slave        | 200 GB      | 1,03 €      | 205,78 €          |
| Datenbank I/O Master+Slave                 | 1299,45 MTX | 0,08 €      | 101,29 €          |
| Datenbank S3 Backup Speicher               | 400 GB      | 1,40 €      | 561,23 €          |
|                                            |             | Jährlich    | 16.747,22 €       |
|                                            |             | Monatlich   | <b>1.395,60 €</b> |

| Dynamic Scaling                 | Anzahl   | Einzelpreis | Gesamt     |
|---------------------------------|----------|-------------|------------|
| JBoss (Spare) pro Stunde, z. B. | 3650 Std | 0,30 €      | 1.081,14 € |

# 3 Ways to Get Started with AppDynamics

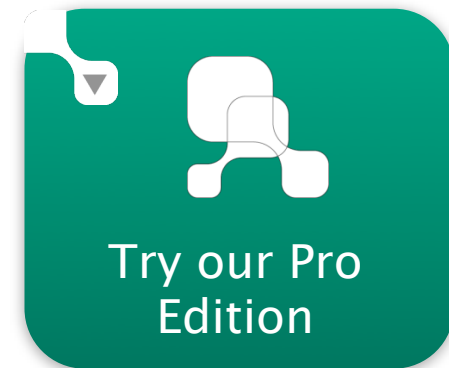
---



[www.appdynamics.com/free](http://www.appdynamics.com/free)



<http://www.appdynamics.com/30-day-trial.php>



## Have Questions?



- Come visit the AppDynamics Booth
  - More customer use cases to share
  - Solution Demonstration
- Contact me at [rainer.schuppe@codecentric.de](mailto:rainer.schuppe@codecentric.de)
- Download Lite at [www.appdynamics.com/free](http://www.appdynamics.com/free)
- Visit [www.appdynamics.com](http://www.appdynamics.com) for a 30-Day trial

