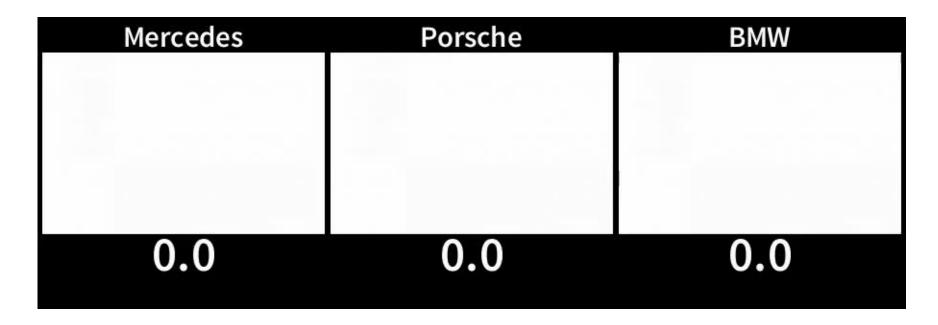


Because performance matters!

Open Source Application Performance Monitoring for the Crowd

Visual Comparison

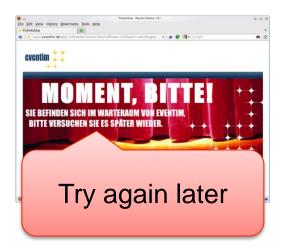


http://www.webpagetest.org - Tested from Dulles, VA - Chrome



Perfomance Problems are Omnipresent









Business Impact of Performance



Every **100ms** page load improvement increases revenue by **1%** (2008)

2008: 19,17 Mrd € → **191,7 Mio €**

2013: 74,51 Mrd € ...



32% of all users leave a page if the load time is between 1-5 seconds (2010)



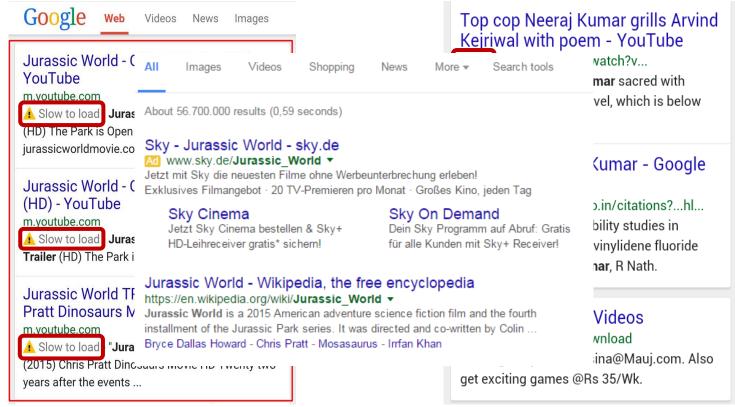
1 seconds delay reduces revenue by 3% (2010)



The perceived load time is 15% higher. The remembered load time even 35%. (2010)



Performance as Direct Competitive Factor







... because performance matters!



AGENDA

- 1. The inspectIT Team
- 2. Overview
- 3. Live Demo: Working with inspectIT
- 4. Outlook
- 5. Automatic Diagnosis of Performance Problems
- 6. Live Demo: Automated Diagnosis



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Background

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Karlsruhe Institute of Technology

2012 - 2015Promotion (PhD)

"An Approach for Guiding Developers to Performance and Scalability

Solutions^{*}

Since 2015 Senior Consultant at NovaTec Consulting GmbH

"Application Performance Management"

Main Topics

- Automation of Performance Problem Diagnosis
- Performance Analysis of Enterprise Software Systems
- Contribution to inspectIT Open Source Project



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https://goo.gl/HkBKTu



in https://goo.gl/mifUhW



SPEAKER

Background

2006 - 2012Studies in Computer Science (Diploma)

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2012 - 2015Promotion (PhD)

"Performance Problem Diagnostics by Systematic Experimentation"

Since 2015 Senior Consultant at NovaTec Consulting GmbH

"Application Performance Management"

Main Topics

- Automation of Performance Problem Diagnosis
- Performance Analysis of Enterprise Software Systems
- Contribution to inspectIT Open Source Project



Dr.-Ing. Alexander Wert



@alexanderwert



https://goo.gl/MbF2w4



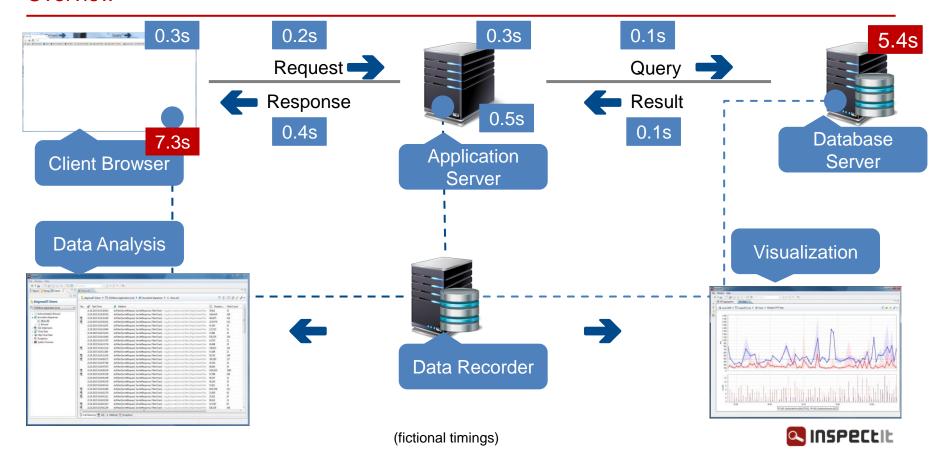
in https://goo.gl/iQRYsC



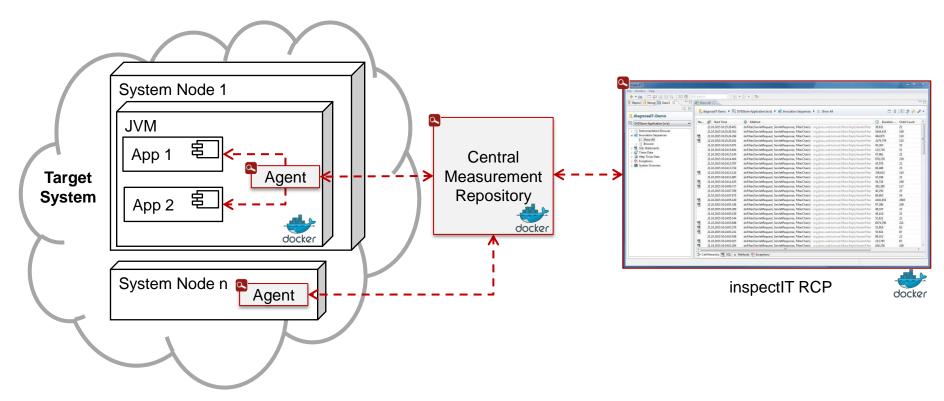
OVERVIEW ON INSPECTIT



Overview



Architecture





Docker Container







Application Container + inspectIT Agent



CMR



inspectIT RCP



inspectit



inspectIT-docker



Download

http://github.com/inspectlT/inspectlT/releases



Central Measurement Repository (CMR)

startup.sh / startup.bat



Instrumentation Configuration Mapping

Environment ↔ Agent



Agent

-javaagent:<PATH_TO>/inspectit-agent.jar -Dinspectit.repository=<CMR_IP>:9070;<Agentname>



Live Demo



Sensors

Timer Sensor

Exception Sensor

Invocation Sequence Sensor

HTTP Data Sensor

Datenbank/SQL Sensor

System Information Sensor

Logging Sensor

JMX Sensor

Blog Post: Stefan Siegl – "Creating an inspectIT sensor"

http://goo.gl/5cER11



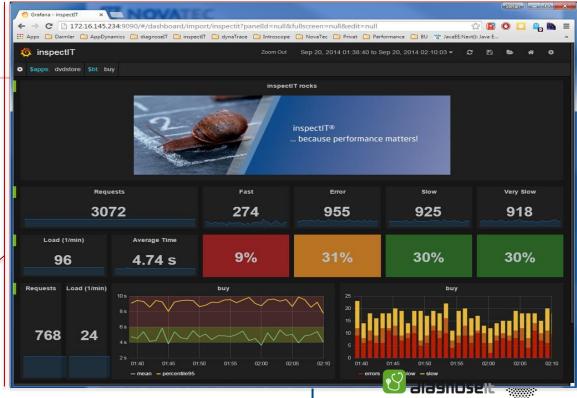
OUTLOOK



Outlook

Feature

- Business Context
- Distributed Traces
- End User Monitoring
- Monitoring in Production
- Adaptive Instrumentation
- Automated Diagnosis



2017

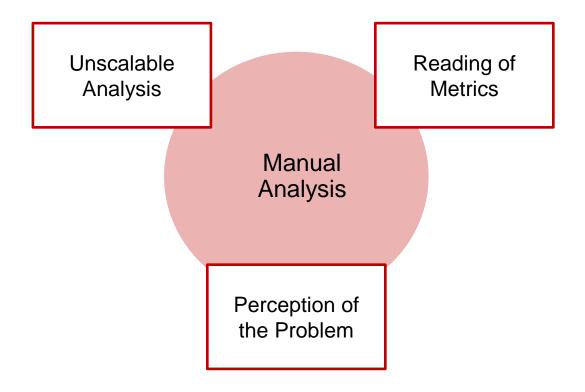




AUTOMATIC DIAGNOSIS OF PERFORMANCE PROBLEMS



Automatic Diagnosis of Performance Problems





Automatic Diagnosis of Performance Problems

Categorization of Performance Problems

Isolation of Problem Root Causes

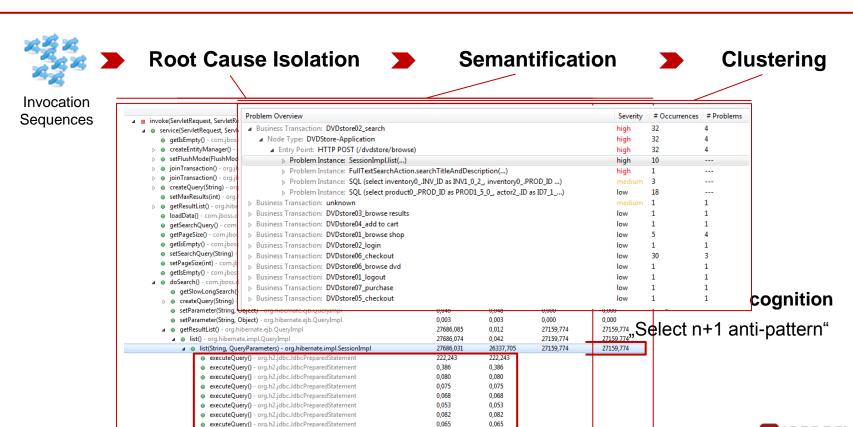
Automated Analysis

Interpretation of Quantitative Data

Semantification of Performance Problems



Rules



executeOuerv() - org.h2.idbc.JdbcPreparedStatemen

0.065

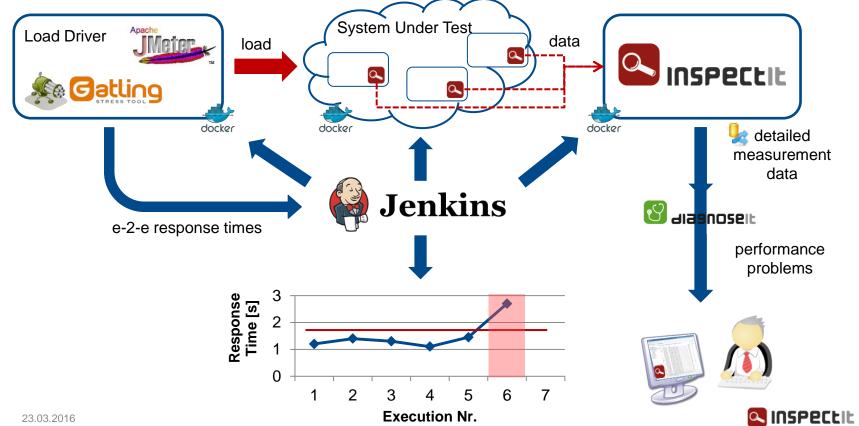
0.065

Live Demo – Preview (Automated Diagnosis)





inspectIT & Continuous Integration



Contribute

troubleshooting

development

use inspectIT

production

continuous integration

performance awareness coaching like & spread tweets

star & watch on GitHub

promote

customer reference

write about

tell colleagues about

Contribute

create

bug reports feature requests

feedback

vote

experience reports

feature requests

documentation

code ecosystem

provide

new ideas

bug fixes

icons & images



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founded 1996

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Business Process Management

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