



redhat.

RHQ und JBossON

Heiko W. Rupp <heiko.rupp@redhat.com>

 **RHQ**

Inhalt

- Worum geht es?
- Architektur
- Subsysteme
- Demo

- Entwicklung von Plugins

JBoss AS Admin Console

Welcome admin [Logout]

JBoss AS Admin Console

mackie

- JBossAS Servers
 - JBoss AS 6 (default)
 - JBoss AS JVM
 - Operating system information
 - Threading
 - Memory Subsystem
 - Compilation
 - Class Loading
 - Logging
 - Service Binding Manager
 - Service Binding Sets
 - JMS Manager
 - JMS Queues
 - JMS Topics
 - JMS Connection Factories
 - Applications
 - EJB2 JARs
 - EJB3 JARs
 - Embedded Web Application (W
 - Enterprise Application (EAR)s
 - Resource Adapter Archive (RA
 - Web Application (WAR)s
 - Resources
 - JBoss Web
 - Scripts
 - Connection Factories
 - Datasources
 - Local Tx Datasources
 - DefaultDS

: mackie : JBossAS Servers : JBoss AS 6 (default) : Resources : Datasources : Local Tx Datasources : DefaultDS

DefaultDS

Summary Configuration Metrics Control Content Status: ✔ Available

General Properties

Name: DefaultDS
Version: --
Description: Local Transaction Datasources deployed in the instance of JBoss AS

Traits

Run State: RUNNING
Pool JNDI Name: DefaultDS
Local Transaction: true

Numeric Metrics

Name	Value	Description
Available Connection Count	20	the maximum number of connections that are available
Connection Count	5	the number of connections that are currently in the pool

JBoss AS Admin Console 1.4.0.Beta3 (r924) - Powered by Embedded Jopr
 © 2002-2010 Red Hat Middleware, LLC. All rights reserved. JBoss is a registered trademark of Red Hat, Inc.

RHQ Dashboard

JBoss Overview Resources Groups Administration Help Refresh Logged in as rhqadmin

Dashboard

Search Resources

Auto-Discovery

 snert - Mac OS X Operating System NEW

Saved Charts

No charts to display

Recently Added Resources

No resources to display

Summary Counts

Platform Total	0
Server Total	0
Service Total	0
Compatible Group Total	0
Mixed Group Total	0
Group Definition Total	0
Average Metrics per Minute	0

Favorite Resources XML

No resources to display

Recent Alerts XML

No recent alerts to display

Operations

Recent Operations
No operations to display

Scheduled Operations
No operations to display

Has Alerts or Currently Unavailable XML

No resources to display

RHQ: Default Dashboard

Dashboard Inventory Reports Bundles Administration Help Log Out

Search: Resources resource search Search

Dashboard > Default Dashboard

Default Dashboard Edit Mode New Dashboard

Inventory Summary

- Platform Total : 2
- Server Total : 12
- Service Total : 383
- Compatible Group Total : 0
- Mixed Group Total : 0
- Group Definition Total : 0
- Average Metrics per Minute : 197

Tag Cloud

Devel Production

Discovery Queue

No items to show.

Import Ignore Unignore

Recent Alerts

Name ^ 2	Condition Text	Condition Value	Resource	Priority
No items to show.				

Recently Added Resources

Resource Name	Date/Time
📁 solaris11	Aug 20, 2010 10:47:01 AM
📁 snert	Jul 30, 2010 6:03:28 PM

Logged in as rhqadmin Messages Favorites no recent alerts

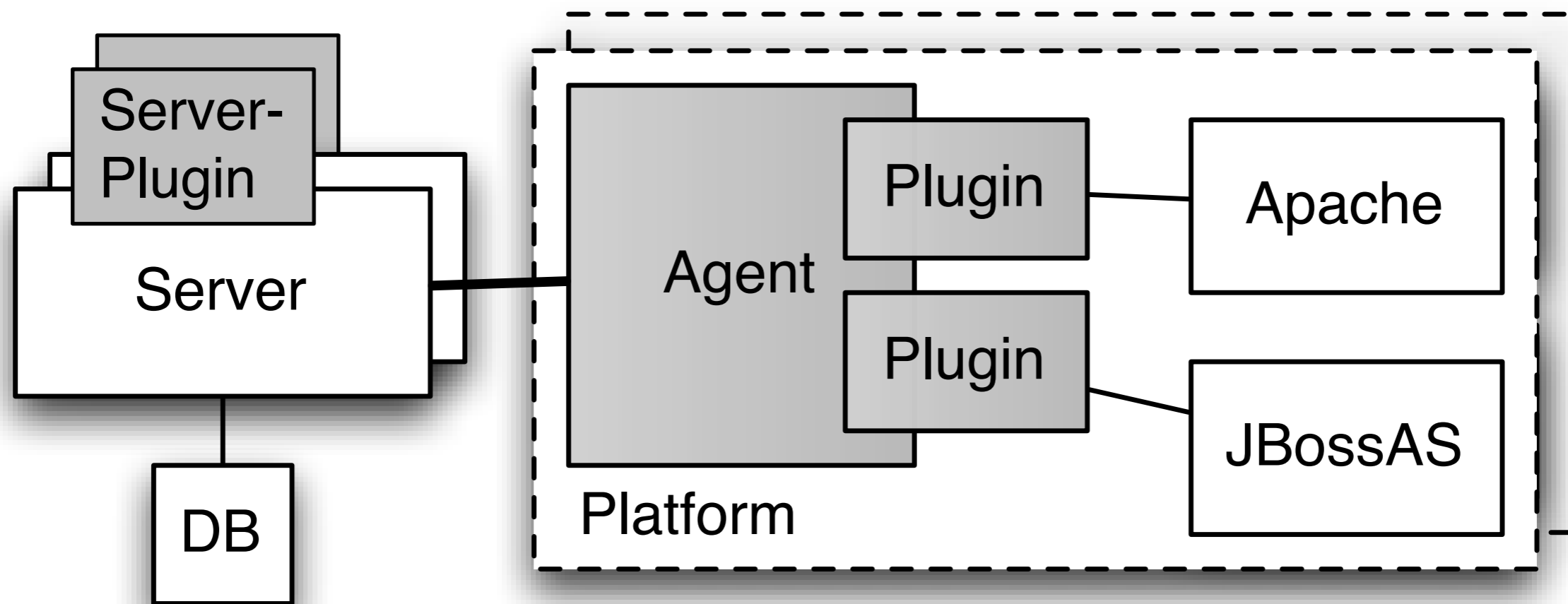
RHQ und JBoss ON

- RHQ als Open Source Projekt
 - <http://rhq-project.org/>
 - Aktuell: Version 3.0

- JBoss Operations Network
 - Downstream von RHQ
 - Aktuell: Version 2.4

Architektur

- Zentraler Server(-cluster)
- Agent pro Maschine („platform“)



Subsysteme

- **Monitoring**
 - Messungen von Zuständen
 - Grafiken auf dem Server
- **Inventory**
 - Zentrale Komponente, die alle zu managenden Ressourcen kennt
- **Configuration**
 - Konfiguration von Ressourcen

Subsysteme

- **Events**
 - Asynchrone Ereignisse
- **Operations**
 - Operationen auf Ressourcen ausführen
- **Alerts**
 - Benachrichtigung bei Ereignissen
- **Provisioning**
 - Ausrollen neuer Software

Provisioning

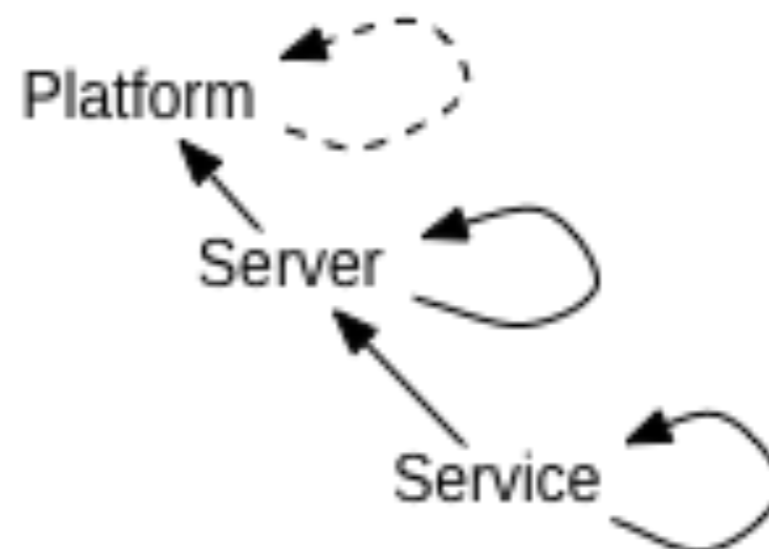
- Ausrollen von Software
 - Auf Maschinen mit Agents
- Zwei Schritte
 - Bundle definieren
 - Bundles deployen

Bundle-Descriptor

```
<project name="myProject" default="main"
        xmlns:rhq="antlib:org.rhq.bundle">
  <rhq:bundle name="demo" version="1.0">
    <rhq:input-property
      name="dsMinPoolSize" .. />
    <rhq:deployment-unit name="name">
      <rhq:archive name="test.war">
        <rhq:replace>
          <rhq:fileset>
            <include name="*.jsp"/>
          </rhq:fileset>
        </rhq:replace>
      </rhq:archive>
    </rhq:deployment-unit>
  </rhq:bundle>
```

Ressourcen

- Ressourcen
 - Alles was gemanaged werden kann
- Ressource Type
 - Z.B. Linux, Max OS X, JBoss AS, Hibernate
Stats, DB-Tabelle
- Ressource Category
 - Platz in der Hierarchie



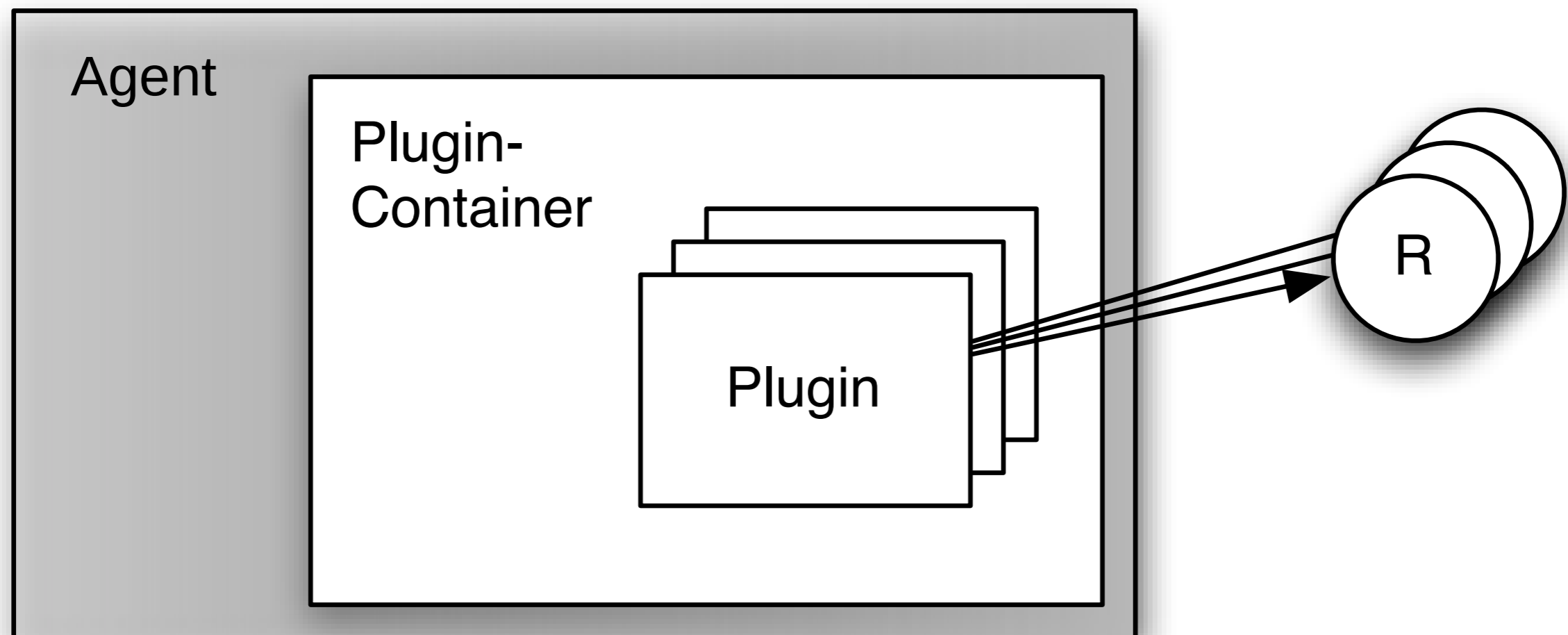
Hosted k



Demo

Plugins entwickeln

- Plugins leben im Plugin Container

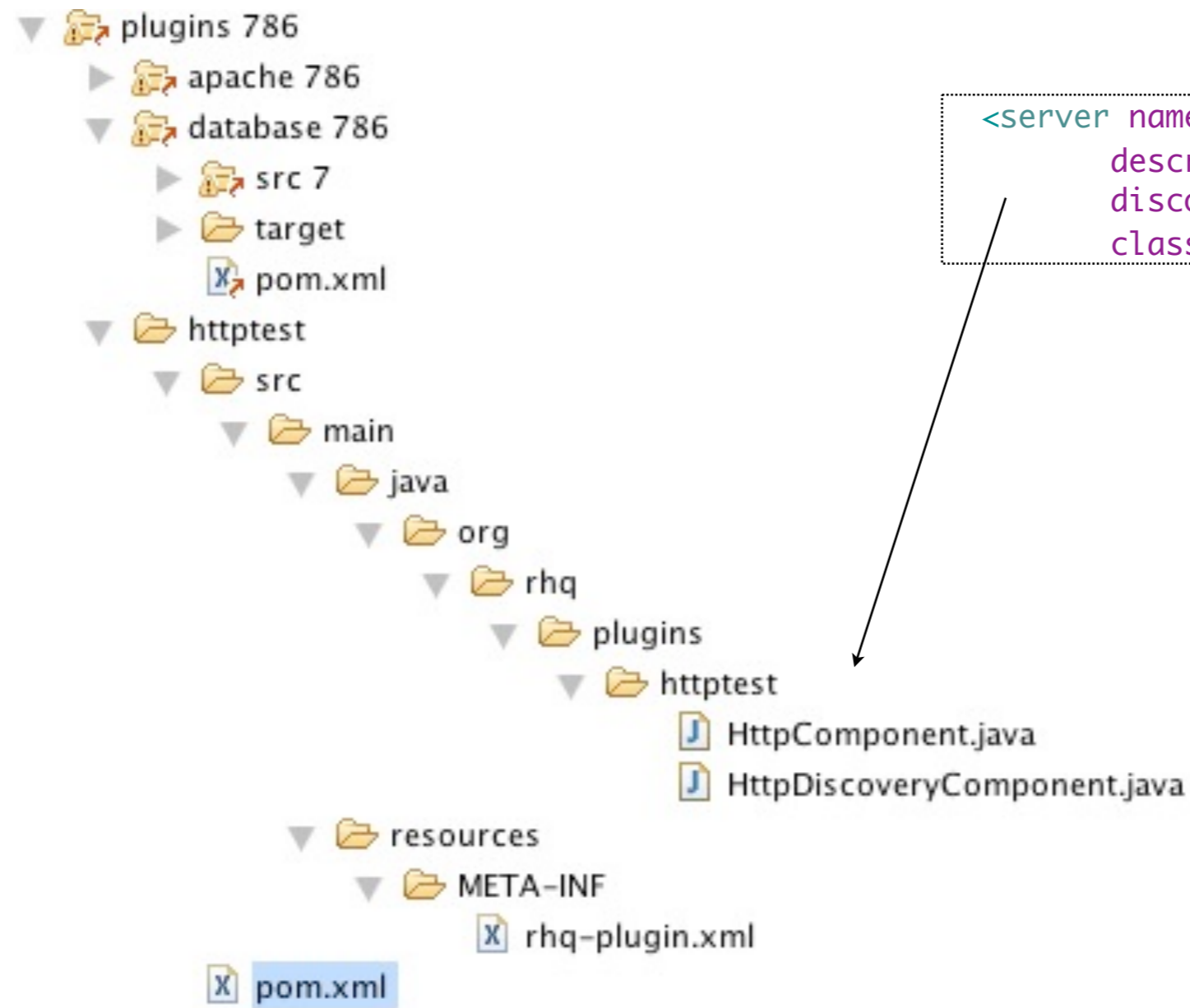


3 Komponenten eines Plugins

- Discovery Component
- Plugin Component
- Plugin-Deskriptor

```
<server name="HttpCheck"  
  description="Httpserver pinging"  
  discovery="HttpDiscoveryComponent"  
  class="HttpComponent">
```


Paketstruktur



```
<server name="HttpCheck"
description="Httpserver pinging"
discovery="HttpDiscoveryComponent"
class="HttpComponent">
```

Server-Plugins

- Laufen nur im Server
- Alert Sender
 - Individueller Versand von Benachrichtigungen

More ...

- <http://rhq-project.org/>
- <http://pilhuhn.blogspot.com/>
- **Twitter:**
 - @pilhuhn
 - @JBossJopr



Danke!