

# JBoss Community



# RHQ and JBoss ON

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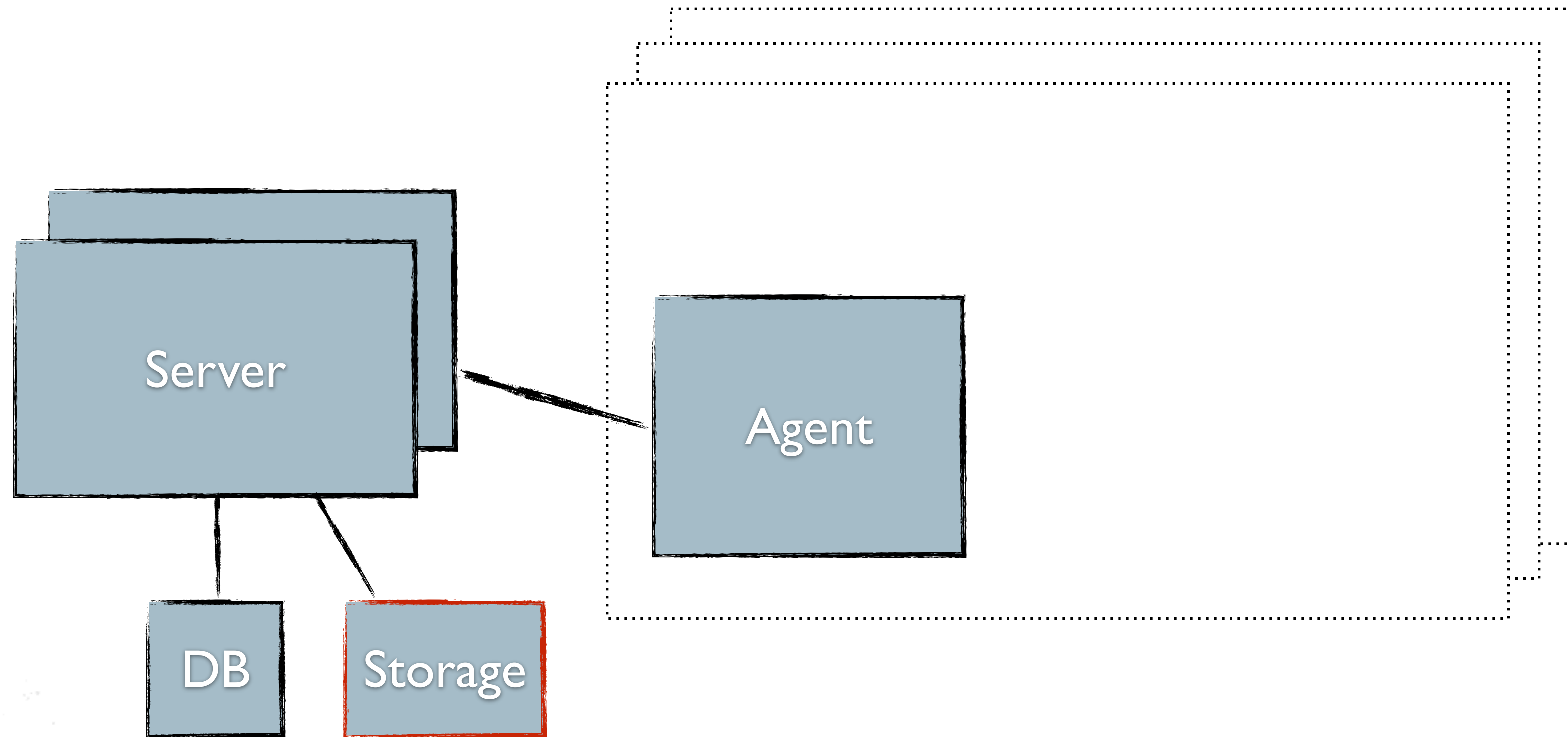
@pilhuhn  
#rhq on Freenet



# Overview

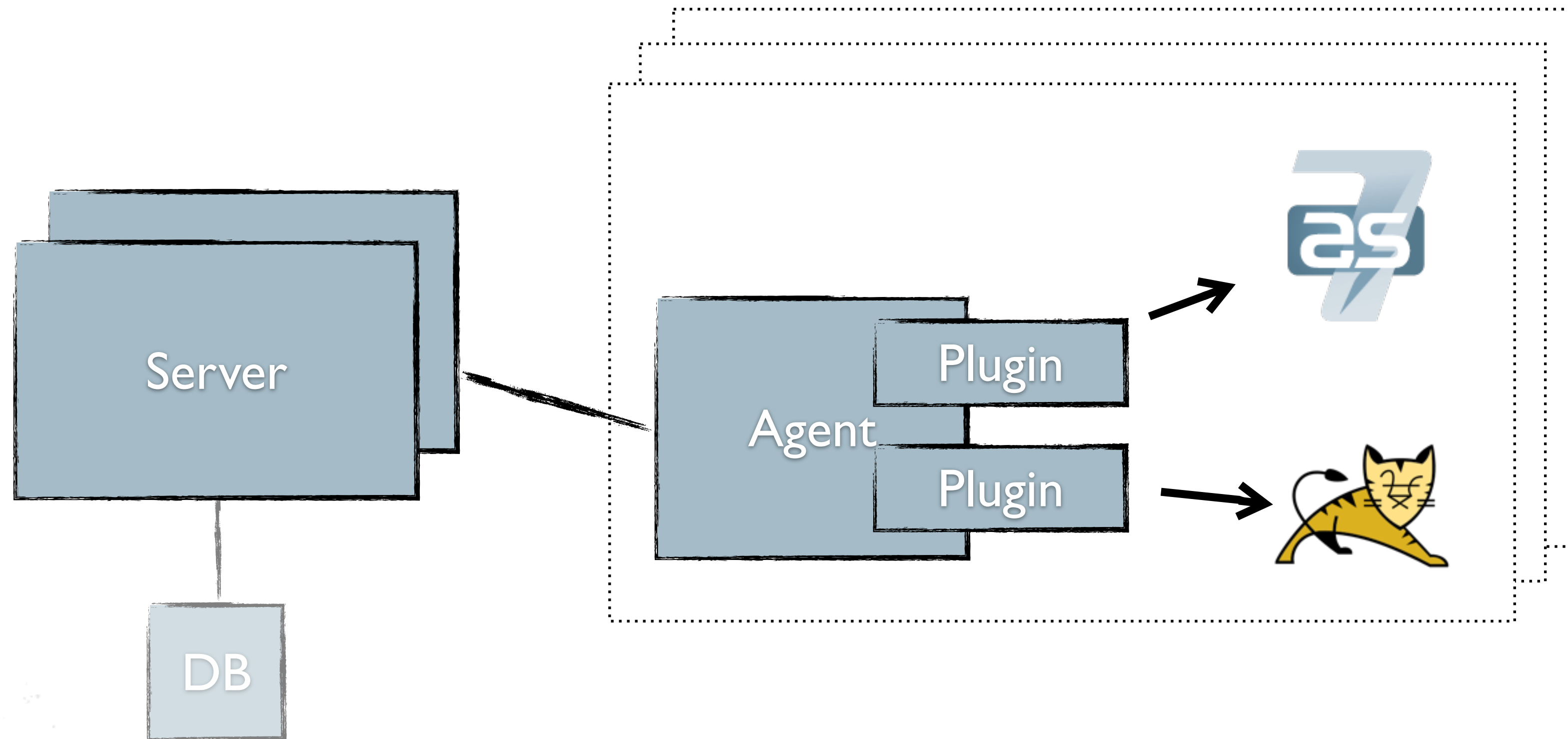
- <http://jboss.org/rhq/>
- Framework for
  - Monitoring, Alerting, Management of servers and applications
- Central Server(s)
- Agents on managed machines
- Plugins do the actual work

# Overview (2)

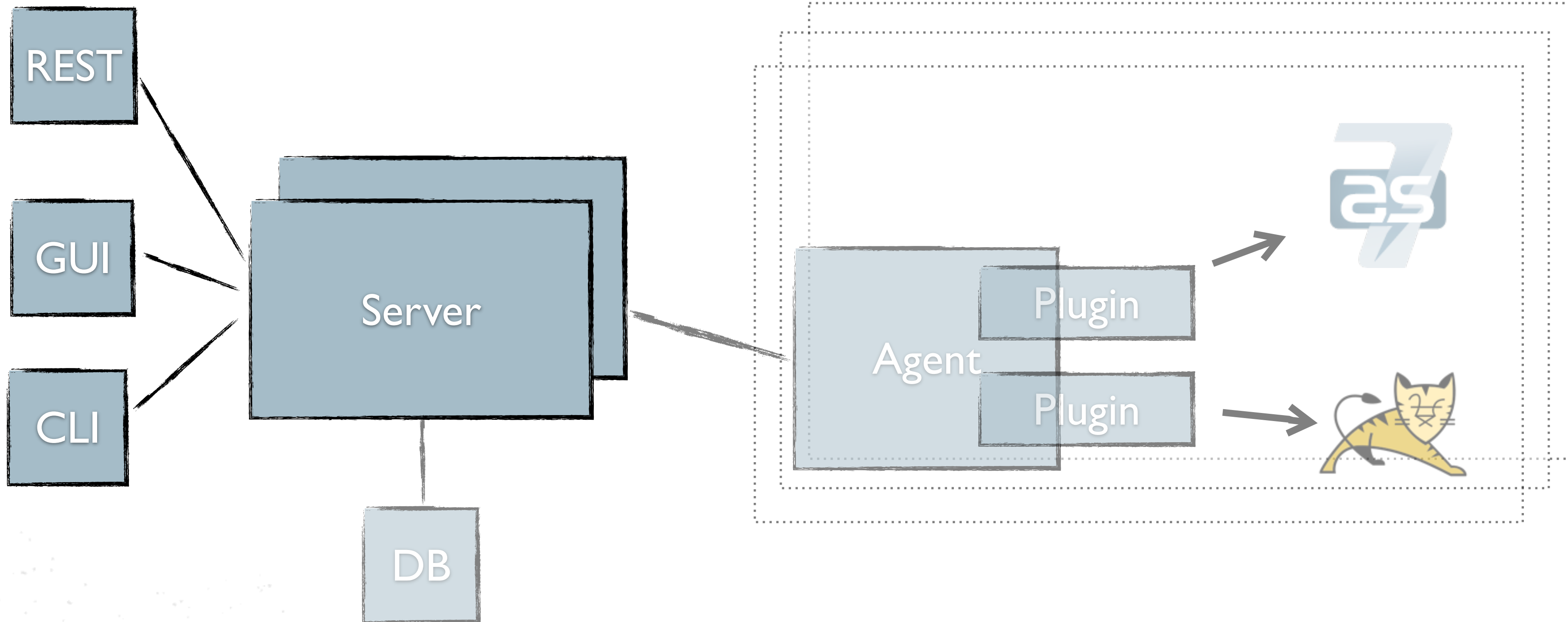




# Overview (2)

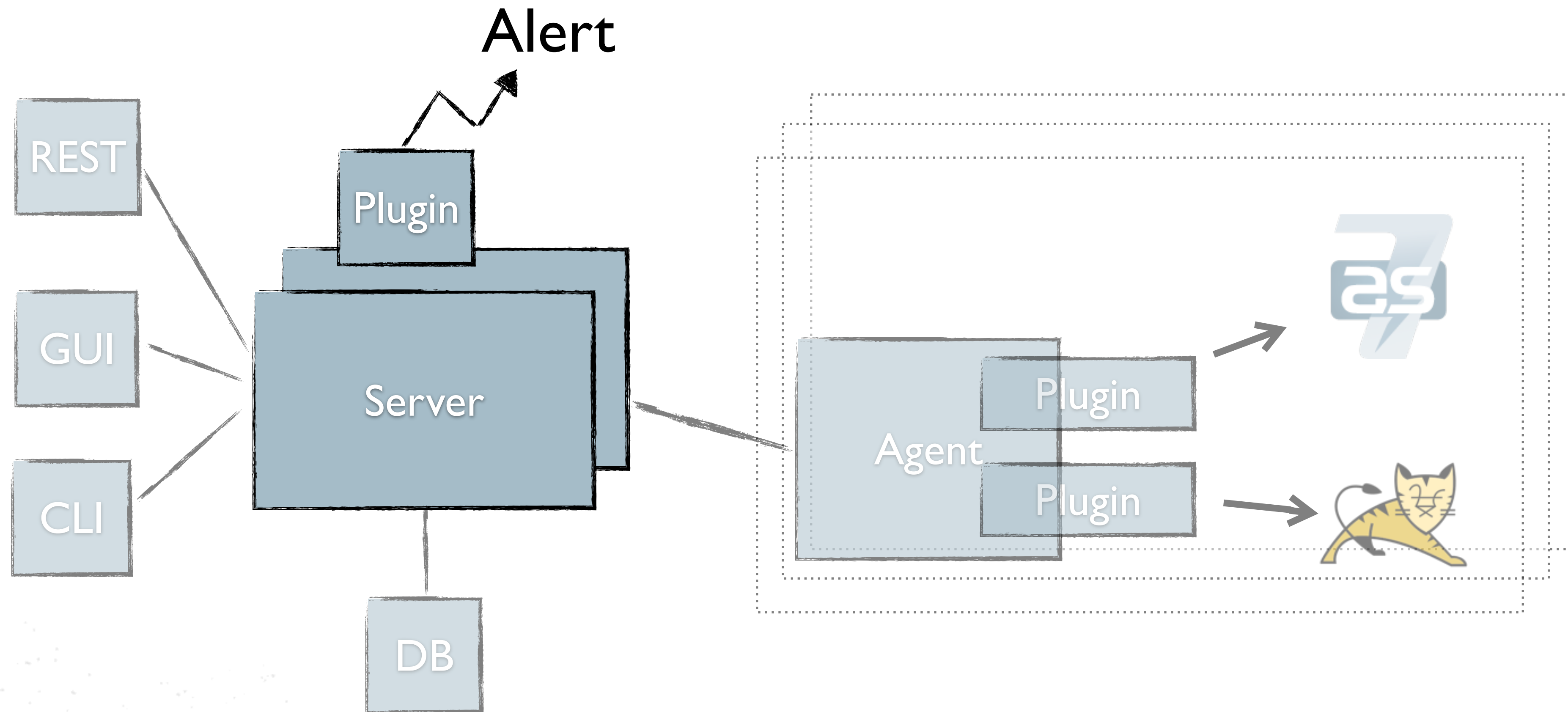


# Overview (2)





# Overview (2)





# Overview (3)

The screenshot shows the RHQ Resource Overview page for a resource named 'snert' (MAC OS X). The browser address bar shows the URL: `http://localhost:7080/coregui/#Resource/10001`. The page has a navigation menu with 'Inventory' selected. The left sidebar shows a tree view of the resource hierarchy, including 'snert' and its sub-components like 'Bundle Handler - Ant', 'Bundle Handler - File Template', 'CPUs', 'File Systems', 'JBossAS Servers', and 'JBossAS7 Standalone Servers'. The main content area displays several panels:

- Activity Timeline:** Shows a graph of resource measurements over time.
- Resource: Measurements:** Lists current resource metrics:
  - Free Memory: 421.47MB
  - Free Swap Space: 104.47MB
  - System Load: 4.61%
  - Used Memory: 7.55GB
  - Used Swap Space: 23.53MB
  - User Load: 9.08%
- Resource: Alerts:** A table showing no alerts found using the specified criteria.
- Resource: Bundle Deployments:** A table showing no bundle deployments found using the specified criteria.
- Resource: Event Counts:** A table showing no event counts based on the display criteria.
- Resource: Operations:** A table showing recent operations performed on the resource.

Date Submitted	Operation	Requestor	Status
Jan 30, 2012 12:17:51 PM	Manual Autodiscovery	1admin	Success
Jan 26, 2012 11:52:38 AM	Manual Autodiscovery	rhqadmin	Success
Jan 24, 2012 4:25:12 PM	Manual Autodiscovery	rhqadmin	Success
Jan 11, 2012 11:46:28 AM	Manual Autodiscovery	rhqadmin	Success



# Overview (4)

- RHQ 4.9 - September 11th, 2013
- JBoss Operations Network 3.2.0 - Dec 2013

# Demo

- <Demo>



# Discovery Queue

- Freshly found servers and platforms show up here

The screenshot shows the RHQ (Red Hat Quarkus) web interface. The main content area is titled "Discovery Queue" and displays a table of discovered resources. The table has the following columns: Resource Name, Resource Key, Resource Type, Description, Inventory Status, and Discovery Time. The resources listed are:

Resource Name	Resource Key	Resource Type	Description	Inventory Status	Discovery Time
snert	snert	Mac OS X	Mac OS X Operating System	Committed	Sep 12, 2012 4:33:12 PM
EAP Domain Controller (0.0.0.0:9990)	/devel/jboss-eap-6.0/domain	JBossAS7 Host Controller	Domain controller for a JBoss Enterprise Application Platform 6 domain	New	Oct 8, 2012 11:33:16 AM
pintsize	pintsize	Linux	Linux Operating System	Committed	Sep 20, 2012 3:31:49 PM
172.31.7.9:80	/etc/httpd /etc/httpd/conf/httpd.	Apache HTTP Server	Apache Web Server	New	Oct 8, 2012 11:27:07 AM
EAP Host Controller (127.0.0.1:9990)	/devel/jboss-eap-6.0/domain	JBossAS7 Host Controller	Host controller for a JBoss Enterprise Application Platform 6 host	New	Oct 8, 2012 11:27:08 AM
MySQL [mysql]	MySQL:mysql:127.0.0.1:3306-root	MySQL Server	MySQL Server	New	Oct 8, 2012 11:27:08 AM

The interface also includes a left-hand navigation menu with sections for "Resources" (Discovery Queue, All Resources, Platforms, Servers - Top Level Imports, Servers, Services, Unavailable Servers) and "Groups" (All Groups, Dynagroup Definitions, Compatible Groups, Mixed Groups, Problem Groups). At the bottom of the table, there are buttons for "Import", "Ignore", "Unignore", and a "Show" dropdown menu set to "New", along with "Select All", "Deselect All", and "Refresh" buttons.



# Overview Server Resources

The screenshot displays the RHQ web interface. The top navigation bar includes 'Dashboard', 'Inventory', 'Reports', 'Bundles', 'Administration', and 'Help'. The user is logged in as 'rhqadmin'. The left sidebar shows a tree view of resources, with 'Servers - Top Level Imports' selected. The main content area shows a table of server resources with columns for Name, Ancestry, Description, Type, Version, and Availability. The table contains 8 rows of data, all with green checkmarks in the Availability column. At the bottom, there are buttons for 'Uninventory', 'Disable', 'Enable', and 'Refresh', along with a status indicator 'Total Rows: 8 (selected: 0)'.

Name ^	Ancestry	Description	Type	Version	Availability
Cron	snert	The cron configuration	Cron		✓
EAP Domain Controller (0.0.0.0:9990)	snert	Domain controller for a JBoss Enterprise Application Platform 6 domain	JBossAS7 Host Controller	EAP 6.0.0.GA	✓
HttpCheck	snert	Http server monitoring	HttpCheck		✓
pattern	snert	Generate metrics that follow a pattern	pattern	1.2	✓
RHQ Agent	snert	RHQ Management Agent	RHQ Agent	4.6.0-SNAPSHOT	✓
snert	snert	Configuration for Postfix Server	Postfix Server		✓
snert	snert	Configuration for Samba Server	Samba Server		✓
snert:2099 RHQ Server	snert	JBoss Application Server 4 hosting the RHQ Server	JBossAS Server	AS 4.2.3.GA	✓

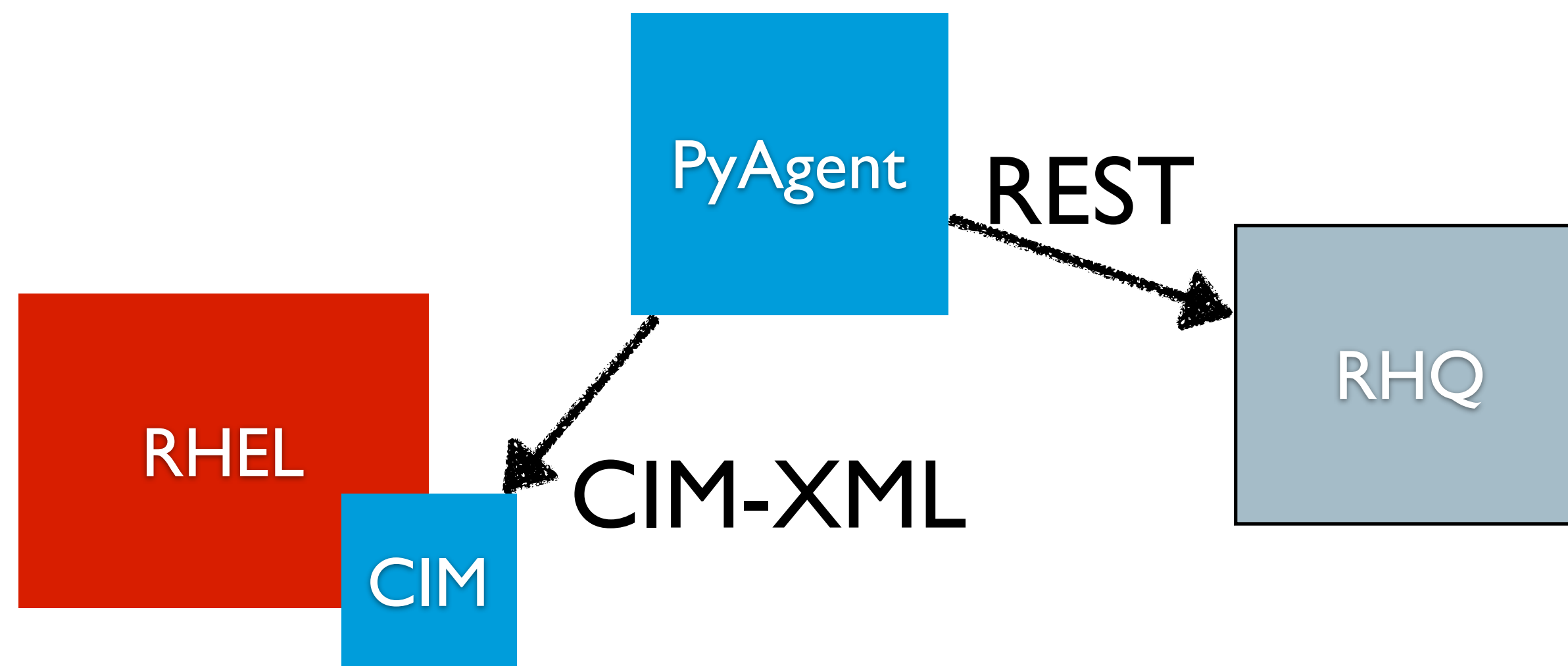


# RHQ and REST

- REST API since RHQ 4.2
  - Push and Pull
  - Retrieval of metrics
  - Push of metrics
- Allows for agent-less operation

# RHQ and CIM

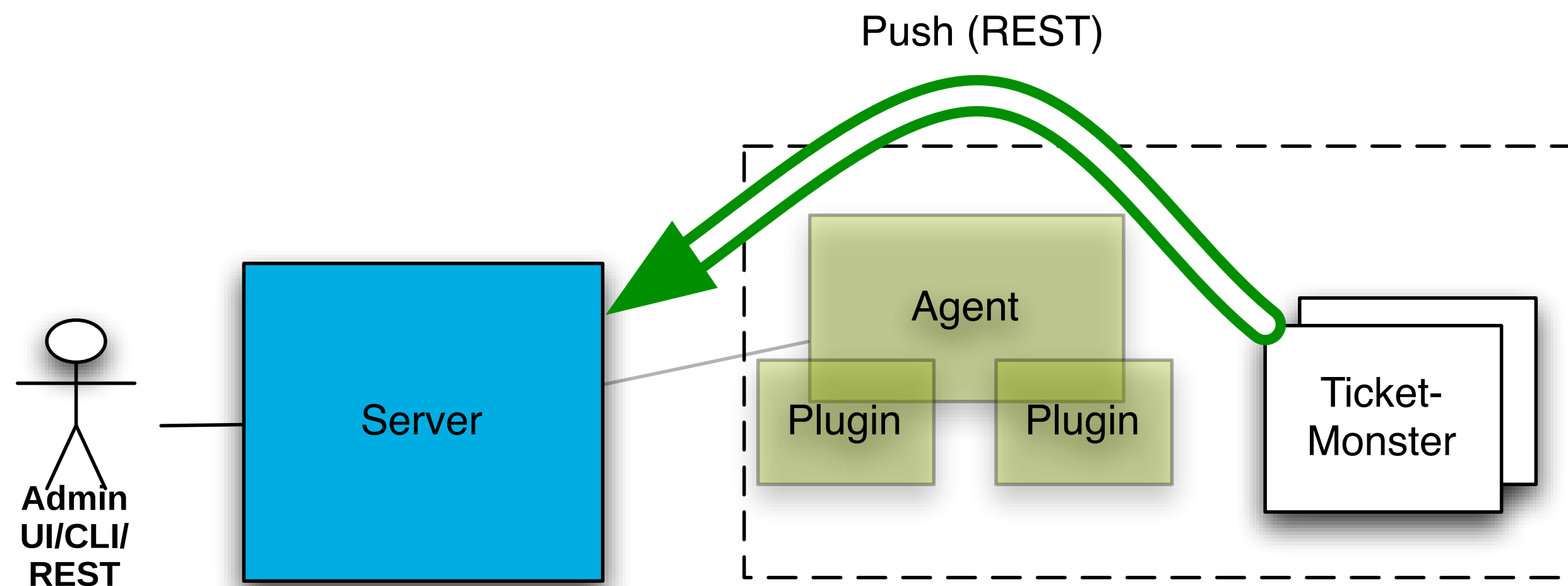
- Work of a GSoC student





# Application Push

- „Monitoring the Monster“



<http://pilhuhn.blogspot.de/2013/01/monitoring-monster.html>

# Future development

- Currently RHQ 4.10
  - Performance improvements
    - Speed
    - Memory footprint
  - AS7/EAP6/WildFly improvements