

Conemis AG

Conemis Software-as-a-Service Enablement

Flexibility with Open Source

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Conemis AG

- founded in 2006 as a spin-off of the Research Center for Information Technology (FZI) in Karlsruhe
- located in Karlsruhe-Durlach
- offers all kinds of services in the field of SaaS
- partner of Sun Microsystems
- most important product: Conemis SaaS Enablement

Conemis SaaS Enablement

- software products as services without adaption
- one-stop consultancy, planning, implementation, operation, and support
- hosted by Conemis or as inhouse solution
- transparent for users
- features
 - reliable infrastructure
 - evaluation and analysis with the Conemis Analytics Tool
 - flexible pricing models with profit-sharing
 - integration into existing websites
 - easy graphical maintainance

Advantages of Software-as-a-Service with Conemis

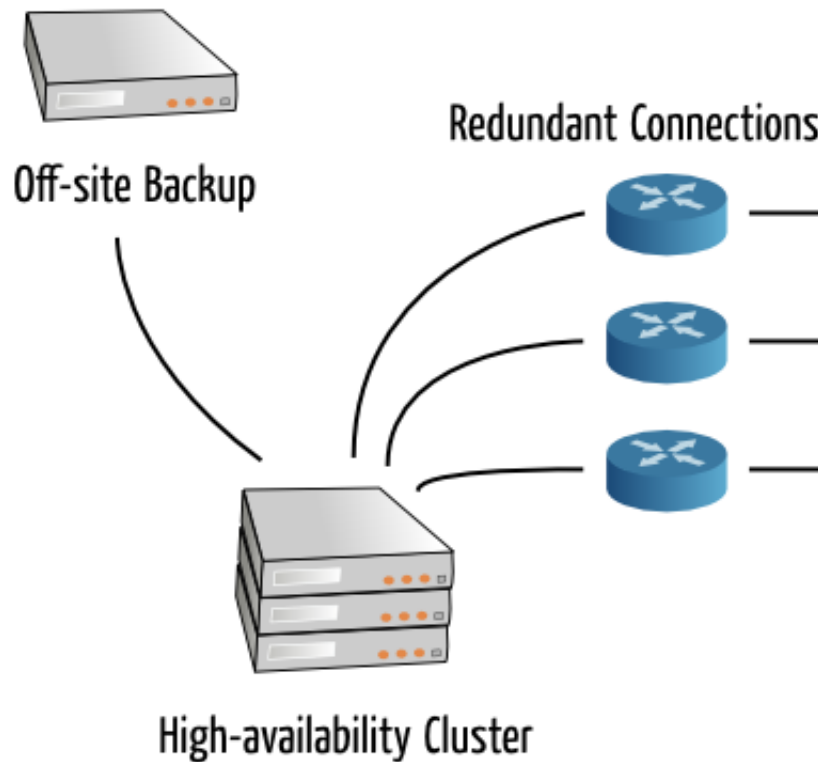
- for software producers
 - focus on core business
 - shortened delivery time
 - easy and efficient support
 - no software-piracy
 - improved feedback
 - increased revenues
- for enterprises
 - no hardware / prime costs
 - planning reliability
 - easy, central administration
 - comfortable staff training
 - unlimited mobility
 - enhanced flexibility

Technical Implementation

- holistic view of hardware and software interaction for each particular case
- open source software used whenever appropriate
- vision: hardware in the form of cloud computing
- objectives
 1. invisibility
 2. reliability and security
 3. scalability
 4. performance

Infrastructure

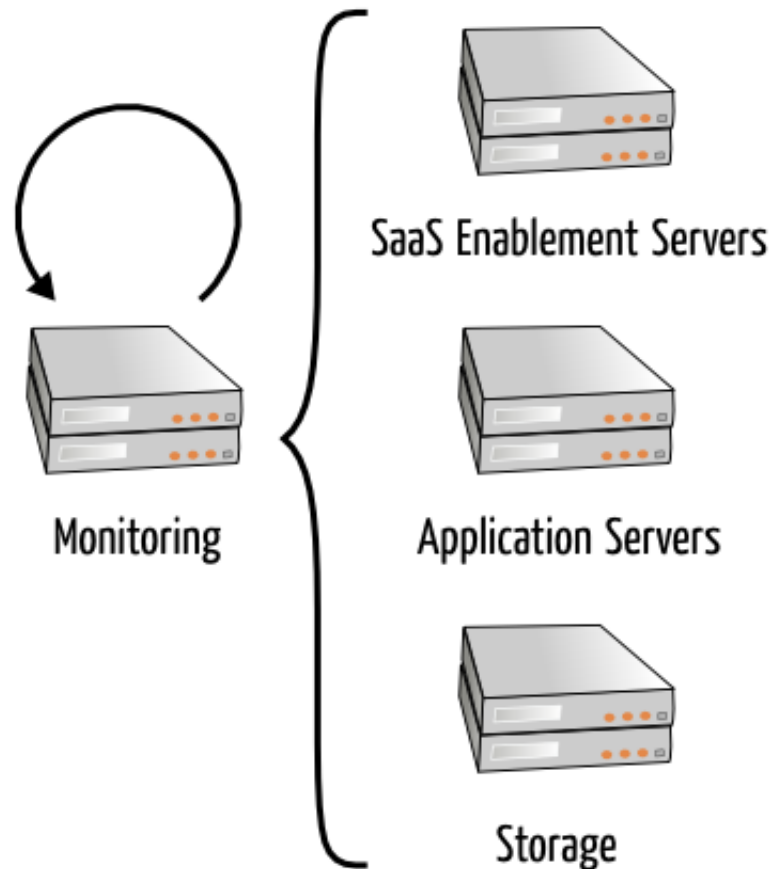
Data Center



- state of the art data center
 - multi level access control
 - uninterruptible power supply
 - extinguishing system
 - redundant connections
- high-availability cluster
- off-site backup to remote data center

Highly Available Hardware

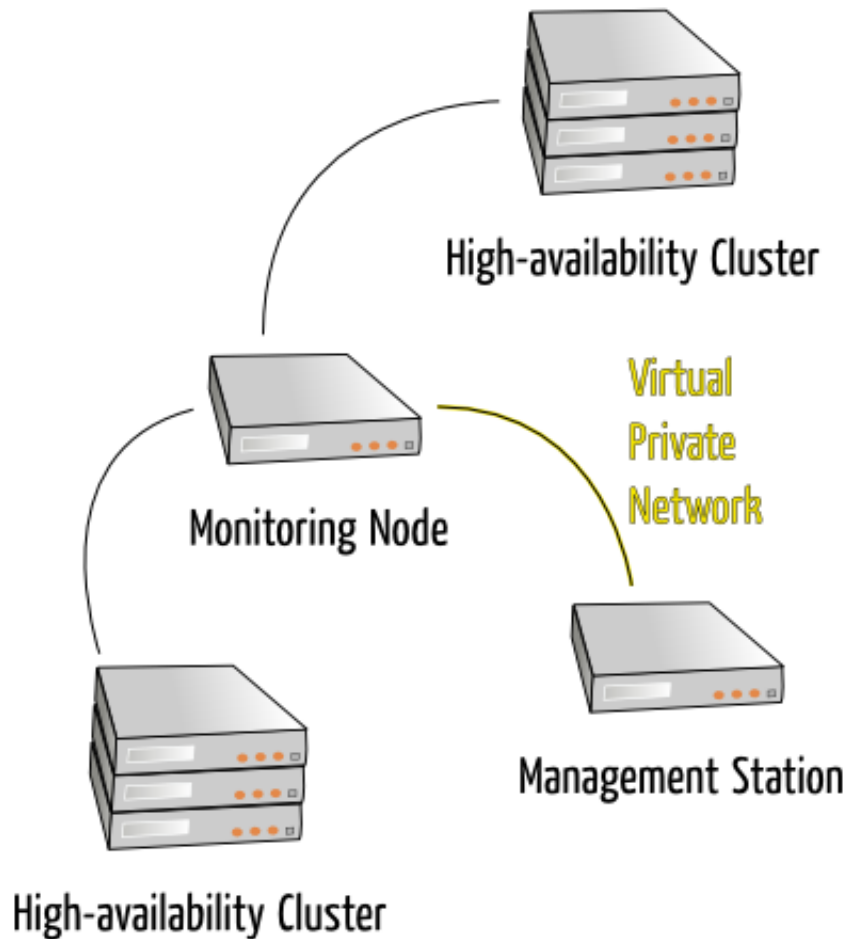
High-availability Cluster



- Sun Fire servers for SaaS Enablement Servers and application servers
- iSCSI-SAN as highly available storage solution
- no single point of failure
- permanent monitoring
- defined emergency procedures

Current Monitoring

Monitoring

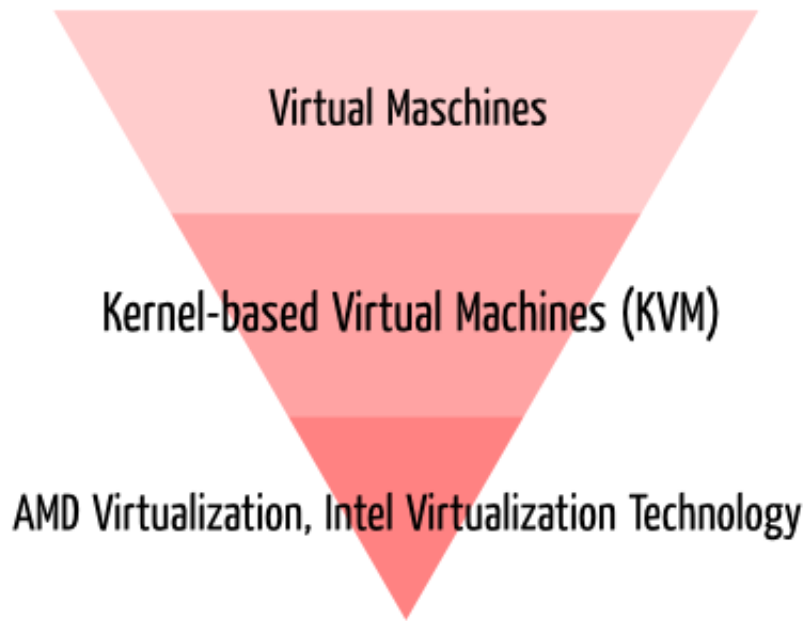


- central management station
 - Nagios in the back-end
 - web front-end for monitoring, evaluation, and configuration
- distributed monitoring nodes
 - transmit messages (Syslog, SNMP traps, etc.) in standard form to management station
 - can be polled by SNMP

Application Servers

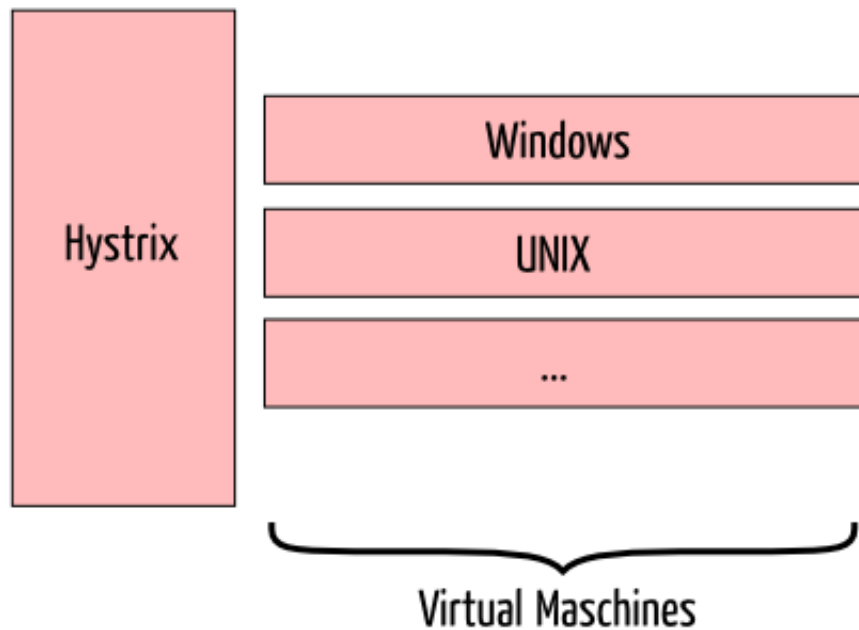
- dynamic server-pool
 - stateless
 - no drives
 - typically basis for hardware virtualization
 - hot plug-in extendable
 - load balancing
 - almost already cloud computing
- advantages
 - fail-proof
 - flexible
 - economical
 - cost-efficient

Stateless Hypervisor „Hystrix“



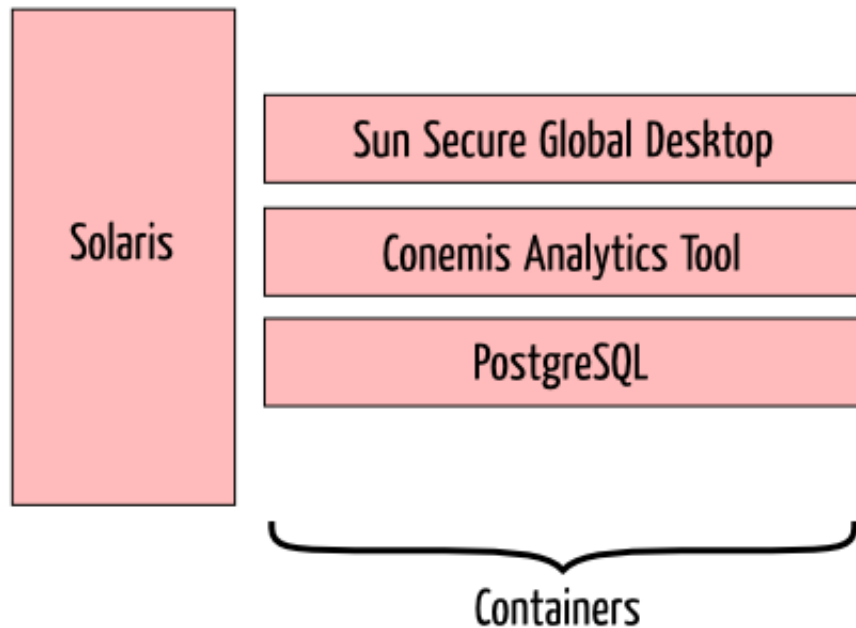
- manages virtual machines
- open source
 - Linux kernel
 - QEMU
- stateless
 - no internal configuration
 - therefore extremely flexible
- developed by Conemis

Virtual Machine



- power-consumption per windows VM under full load approx. 30 watts
- user separation
 - physical separation
 - system virtualization
 - operating system virtualization
 - access control

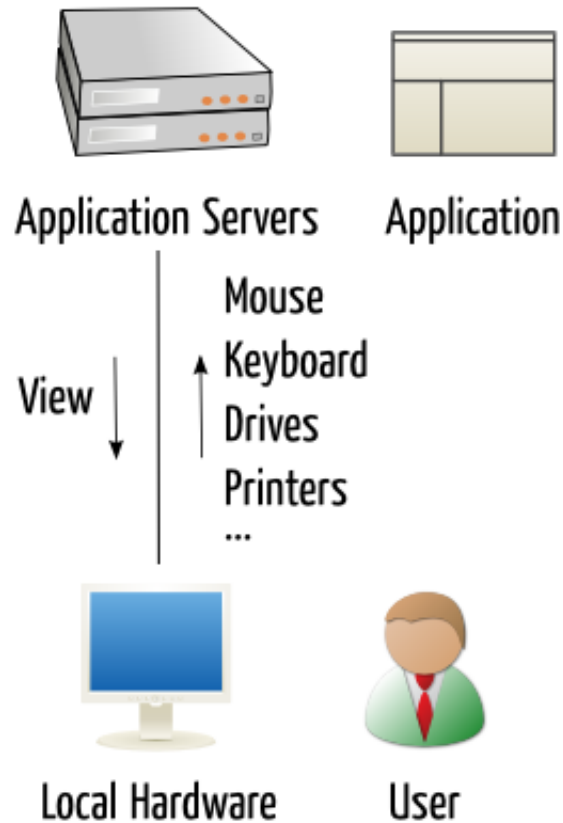
SaaS-Enablement-Server



- access point for users
 - SaaS applications
 - administration
 - analysis and evaluation
- especially high demands for
 - security
 - reliability
 - performance

Enablement Software: Sun Secure Global Desktop

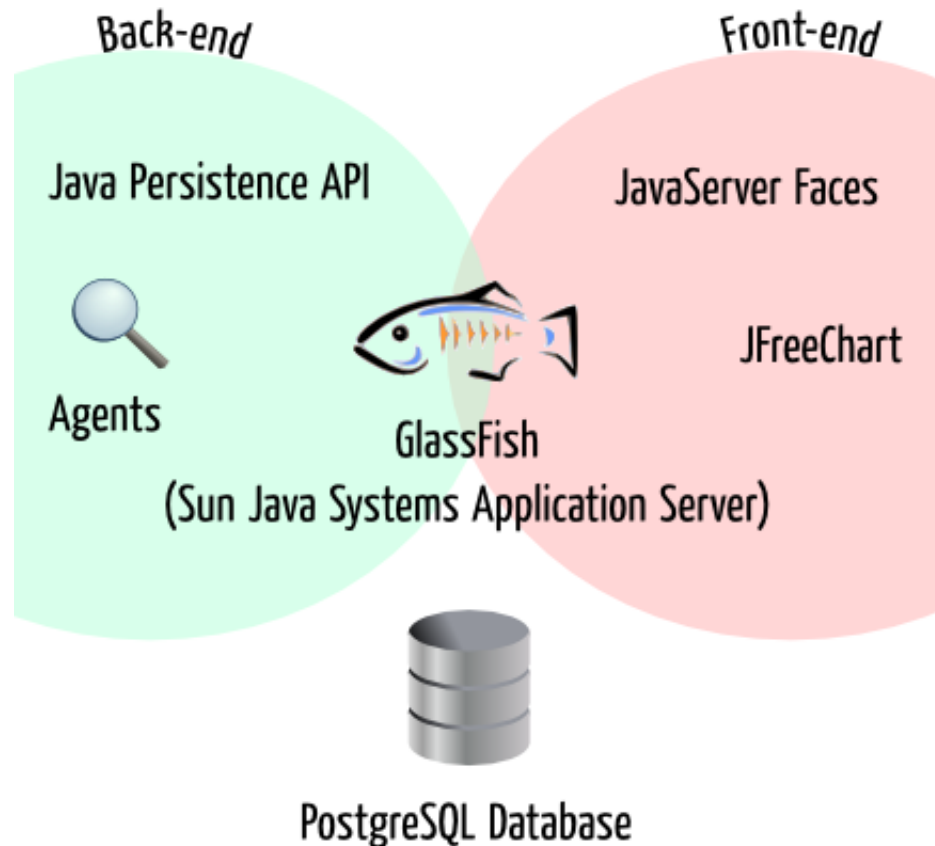
Mode of Operation



- supported client OSes
 - Windows, Solaris, Mac OS, Linux
- supported server OSes
 - Windows, Solaris, Linux, AIX, HP-UX, AS/400
- single sign on
- compression, encryption
- integration into start menu

Analysis with the Conemis Analytics Tool (CAT)

Conemis Analytics Tool



- central enterprise application server
- agents transmit data to webservices interface
- database connection per JPA
- back-end for data processing and storage
- graphical web front-end

Thank you for your attention

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www.conemis.com

You can get this presentation at
<http://www.conemis.com/cebit08/conemis-saas-en.pdf>

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