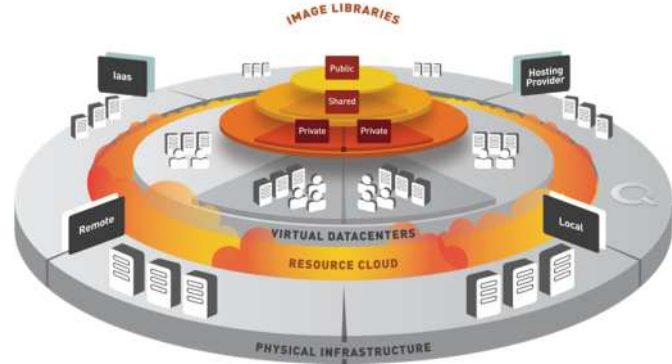




## Abiquo Enterprise Edition

### Overview

Designed from the ground-up to provide next generation Cloud management, Abiquo is the most complete and advanced solution available on the market today. Abiquo not only provides class-leading features like virtual to virtual conversion, it is easy to implement and operate, liberating your IT organization from the drudgery of managing thousands of virtual machines, without relinquishing control of the physical infrastructure.



Abiquo empowers authorized users and groups, by allowing them to manage their own virtual enterprises within allocated resource limits. New virtual machines or pre-built appliances can be deployed in seconds, dramatically improving efficiency and allowing you to regain business agility.

### Hypervisor Independence

Abiquo was designed to avoid dependence on any hypervisor. Not only are all major hypervisors fully and simultaneously supported, Abiquo allows conversion of virtual machines from one hypervisor to another in any combination, completely eliminating vendor lock-in with a single drag and drop operation.

Supported hypervisors include:

- VMware ESX and ESXi
- Microsoft Hyper-V
- Virtual Box
- Xen
- Citrix XenServer
- KVM

### Multi-tenancy with Delegated Control

Hierarchical user management and role based permissions allow delegation of management tasks according to the organizations needs. Since any user's view is limited to the hierarchy below them, Abiquo provides multi-tenancy with full isolation, whether to internal groups, or to external customers. A single Web-based



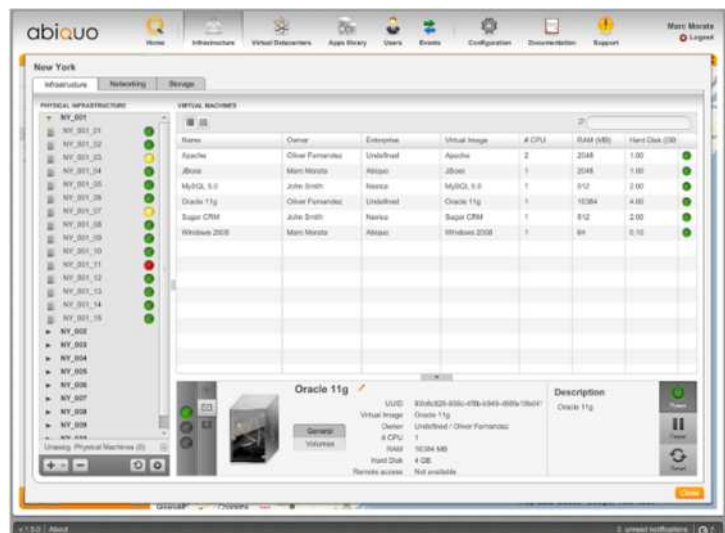
management console is context sensitive to the role and permissions of the relevant user, reducing complexity and providing unparalleled ease of use.

## Resource Limits

Define CPU, memory and storage limits for each Virtual Enterprise, including both hard (enforced) and soft (warning) levels for each. Since no Virtual Enterprise can exceed its allocated resource limit, there is no danger of users exceeding the capabilities of the physical infrastructure. Alternatively, users can be oversubscribed if necessary.

## Network and Storage Management

Automatically allocate network resources, such as public and private IP addresses from one or more defined pools to Virtual Appliances. Manage storage resources from popular standards and vendors, allocating them to Virtual Enterprises and allowing Enterprise Admins to perform volume management tasks, as well as allocation to specific Virtual Machines. Abiquo includes advanced network management capabilities including support for multiple NICs per Virtual machine, multiple Virtual LANS (VLANs) per virtual datacenter, named networks, and Allocation Policy management based on VLAN availability.



## Workload Management

Abiquo automatically allocates Virtual Machines to physical servers according to defined workload policy. This policy completely isolates Virtual Enterprises and users from physical machines, but provides for automatic hypervisor selection, load balancing, security and compliance, according to the needs of the organization or relevant groups.

## Multiple Image Libraries

Abiquo supports public, shared and private libraries. Where permitted by role, users can capture and store Virtual Machine images, and even combine sets of VM



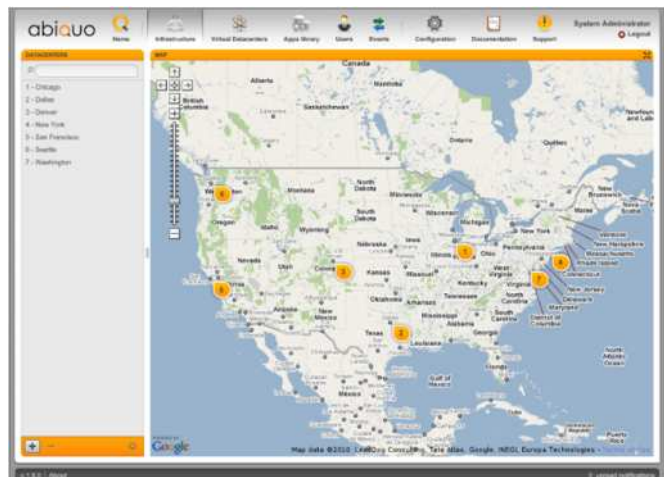
images into a single appliance for easy re-deployment. Shared libraries allow the IT organization to define standard VM images, for example built to company anti-virus, directory and control requirements. Public VM images from reputable vendors can be downloaded for rapid deployment of complex systems, dramatically reducing implementation and evaluation times.

## Simplicity of Installation

Abiquo can be fully installed on a live running system, irrespective of the hypervisors in use. It performs automatic inventory of both hardware and virtual machines, making deployment a breeze at whatever pace the organization desires.

## Enterprise Scalability

The Abiquo solution is designed to scale to meet the needs of the largest organizations employing large numbers of globally deployed datacenters and tens (even hundreds) of thousands of physical machines. Yet it is equally at home in a small development lab with only a few machines to manage.



## Standards Based

Abiquo is built on industry standards to operate in conjunction with other management tools, Web services, databases, storage systems and networking. Abiquo's Cloud User API (built on VMWare's vCloud 0.9 (beta) standard) and Cloud Service API (inspired by Sun Public Cloud) enable enterprises to migrate existing VMs and other resources into the Resource Cloud quickly and easily. As a result, Abiquo has eliminated one of the biggest deterrents to cloud adoption; enterprises can now easily leverage and deploy existing images.



## System Requirements

### Abiquo Server

#### Hardware:

- Minimum Pentium 4 1.5Ghz or equivalent (Dual Core Xeon or better recommended)
- 2Gb RAM (4GB recommended)
- 20Gb Local Disk space required (plus requirements for Virtual Image storage)
- Gigabit Ethernet or better network connectivity to hypervisor nodes recommended

#### Operating systems:

- X64 Linux (tested with Red Hat, OpenSUSE, Ubuntu, Debian, CentoOS, Fedora)
- Sun OpenSolaris (2008.11 x86, 2009.06 x86)
- Microsoft Windows XP, Vista, Windows 7 and Server 2008 (Recommended),
- Apple Mac-OSX (10.6)

#### Pre-requisites:

- Java SE 6 (Release 1.6.0\_18 or later recommended)
- Hibernate ORM Compatible Database (MySQL 5.0 included in distributions)
- Apache HTTPD 2.2 or Tomcat 6 Web Server (Tomcat 6 download option during install)

## Hypervisor Support

VMware	ESX/ESXi 4 (API support required)
Microsoft Hyper-V	R2 (Abiquo version 1.5 onwards)
Xen	3.4.x - requires Libvirt 0.7 (provided)
Citrix XenServer	5.5.2 (Abiquo version 1.6 onwards)
KVM	88 - requires Libvirt 0.7 (provided)
VirtualBox	3.0.x

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