



Release Notes for Abiquo 2.2

1. Platform Changes

1.1. New Features and Improvements

Abiquo 2.2 contains the following new features and improvements:

- **Administration Scope:** limit a user to a set of enterprises and datacenters to create administrators for client or regional groups, improving delegated administration, security and control.
- **Database accounting improvements:** optimized tables, processes and views for improved scalability and query performance, and more robust data collection; separate schema for improved security.
- **DVD hardware on VMs:** users can start a VM with a DVD enabled, reducing admin workload.
- **Thin provisioning on ESX:** enabled for all VMs deployed using Abiquo allowing users to resize the hard disk with external tool.
- **Use virtualCopyDisk in all calls (ESX):** uses VMWare API more consistently, improves VM deployment performance, stability and scalability.
- **Complete API functionality:** improves the overall performance and scalability of the platform. Events retrieval and persistent VMs now included in API. New API/GUI workflow to create persistent virtual machines.
- **Limit the number of NICs of the same VLAN on a VM:** improves platform stability and security.
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- **VNC Language selector in ESX:** the end user can decide the keymap for the VNC connection.
- **Nexenta plug-in uses API instead of agent:** simplifies installation and maintenance.
- **Set port for vCenter communications:** supports custom environments for improved security.
- **Pluggable architecture for storage:** allows development of custom storage plugins using SDK.
- **Billing Integration CSV and DBMS Costing:** enhancement to the Abiquo Billing Integration to optionally include costing calculated from the Abiquo pricing data.

1.2. Workflow Changes

- **New Persistent VM Process:** In Virtual Datacenters view, create persistent virtual machine templates from virtual machine templates. Deploy persistent templates to create Persistent Virtual Machines.

1.3. Other New Features

- **Abiquo Theme Generator:** easy-to-use theme generator for Abiquo base and enterprise themes to customize your Abiquo GUI.
- **KVM binary:** binary for installing Abiquo KVM on CentOS 6 systems.
- **Reporting Schema and Custom Reports:** kinton_reporting schema provides a view-based interface to the Abiquo database, improving security, performance and stability and simplifying report creation and maintenance.

1.4. Overview of Resolved Bugs

Abiquo 2.2 has resolved bugs related to detection of virtual machine **move operations in ESX/ESXi**, and addressed bugs related to **Statistics**, which will be fully resolved with a refactor in future releases.

A detailed list of features and resolved bugs is included below.

1.5. Detailed List of Improvements and Resolved Bugs

1.5.1. Improvements

Key	Summary
3697	Upgrade jclouds-chef dependency to 1.5 to ensure the same version of jclouds is used for the whole platform
4344	Improve feedback for user for Hard and Soft Limits

1.5.2. Resolved Bugs

Key	Summary
2795	Deadlock in server
3403	In ESX + vCenter + Abiquo HA, after the VMs have been moved, vCenter is trying to unregister the VMs. As a result of this issue Abiquo documentation was changed to indicate that vCenter is not compatible with Abiquo HA
3603	With HA enabled, choosing local datastores instead of shared causes nullpointer errors
3871	Check the tag availability when editing a Rack
4113	Deleting a VM/VApp/VDC/Enterprise causes information loss for an Accounting period (one hour)
4140	Attempting to apply allocation rules through the API without datacenter parameter produces a 500 internal server error
4185	Default gateway is not assigned when attaching a NIC from an unmanaged network
4199	The HA process fails with null errors when the enterprise can only deploy on reserved machines and has not reserved the candidate one
4209	When deploying a VM with IDE master and slave disks in ESXi after removing a master disk, the power on fails
4210	(ESXi) wrong bus/unit number usage ("There is an IDE slave with no master"). This error occurred when removing a volume or hard disk if it was not the last one added. It is caused by IDE controller restrictions
4212	When there is no DC available, when we try to create a VDC, a message should appear
4217	Remove RASD entities when detaching a NIC to complete cleanup of network records in database
4224	Cannot reserve physical machines using the GUI
4226	Check in event handlers if the virtual machine is subscribed before subscribing it. This fix will prevent crashes in the event handlers and notification system
4227	Through the API, a PM can be reserved by an enterprise although it contains VMs of other enterprises
4241	Receiving a badly formatted soft limit dialog error, "Server response", when adding NICs to a VM
4242	Cannot undeploy a paused VM in ESXi
4243	ESXi only supports memory amounts that are multiples of 4. If not, powerOn fails.

4269	When you assign an unmanaged IP in a reconfigure, the IP address is created twice but assigned to the VM once
4277	Incorrect number of CPUs in KVM when active CPU sockets > 1
4292	Server error retrieving the VMs from a HyperV that has persistent images deployed on it
4320	A virtual machine can be deleted before the instance process finishes. This occurs when a conversion of a template is deployed and an instance process started. The virtual machine is unlocked too soon
4331	A user who can manage network elements cannot put an external IP in quarantine
4337	Abiquo AIM does not bring the bridge up if the bridge already exists, but is down
4355	Lease not created in OMAPI/DHCP. When reconfiguring, if it can't find previous lease, it won't create a new one. Log message contains: "Could not reconfigure DHCP Server" and "OMAPI rule not found". It was necessary to create a new lease manually with the previous name.
4363	Expanding NetApp volume in not reflected in KVM
4366	Not enough disk when creating persistent VMs causes an unlock of the virtual app before the process finishes.
4372	Accounting Upgrade process uses too many resources. A new upgrade script has been developed.
4381	(vMotion) After doing vMotion of a VM with volumes, it is not possible to powerOff or reconfigure
4387	When retrieving a virtualmachine, if an entry exists in the database, the record with the hypervisor is updated but the VSM subscription is not
4389	Retrieve from a Hypervisor in "HA disabled" state changes idHypervisor in VM entry
4390	Undeploy is possible from a hypervisor in "HA disabled" state

1.5.3. Known Issues

The following known issues will be resolved in the next release.

Key	Summary
3005	Bad message when deleting a DHCP remote service
3635	When an image is created from an instance of a captured VM, the mandatory description field is not filled
3790	A server error response sometimes appears when adding a UCS rack
4397	Flash player crashes deleting a failed persistent template without selecting the VDC
4018	Cannot download an image which was previously removed from the NFS
4216	Cannot put an external/unmanaged IP to quarantine
4287	(ESX) If a DVD drive is added via the hypervisor, this is not reflected in the VM when the machine is captured
4293	The event generated when a conversion fails has the name of the template and formats in the wrong order
4360	License added and license remove events are not recorded
4370	Instance from some persistents (NetAPP) fail to boot with Fatal: No bootable device.
4379	VSM sends a DESTROY of an existing virtual machine because when ESX is busy, it returns a different type of VM object
4401	(API) 500 internal server error creating a storage pool with an invalid format in a link of the XML
4405	Javax error after retrieving some machines and then sending an email to the owners or administrators of the physical machine
4408	Adding template that is later unshared to a vApp generates a "You do not have enough permissions to perform this task" message when accessing the vApp
4410	The conversions of an instance are not deleted when removing the instance
4411	When creating an instance, a conversion to raw remains on the NFS
4413	Server response error editing the DC before saving the enterprise created
4414	Sending email to Physical Machine users through the API, the message is not required
4417	Powered off VMs are not counted on dashboard statistics

4418	A user without Infrastructure privileges should not be able to see Enterprise Hard Limits on Dashboard
4420	Server error is shown getting the external VLANs from an enterprise without DC associated
4423	Wrong error is shown putting an External IP in quarantine
4428	All the limits are checking creating volumes, private networks and purchasing IPs
4435	There is a typo in the message generated when you start the tomcat without a datacenter created
4437	Incorrect English in the error message when retrieving VMs from a PM disabled by HA
4444	Modified Storage Volumes lose Storage Tier in Accounting Tables
4445	Powered ON VMs that move to UNKNOWN state then back to ON will no longer be accounted for when moving back to ON
4457	There is no Wiki link in configuration for creating Scopes
4458	An enterprise-admin cannot generate missing conversions
4459	Persistent image cannot be moved from KVM to ESX
4460	Attaching a volume to a VM, the NICs are reordered numerically
4464	In a CIAB cannot create an instance from a persistent virtual template
4466	Power On/Off, Pause and Reset do not work from Infrastructure screen
4468	Get through API virtualmachinetemplates for an enterprise without permissions to use the template
4484	A javax error appears when accessing the Chef tab of a VM when there is no connection to the Chef server
4486	Public IPs should have the "publicnetwork" link relative to the virtual datacenter
4489	Cannot deploy more than one VM at a time in XenServer
4531	When trying to delete a volume without a connection to the storage device, the volume is not deleted from the database