



## Customer Notes on Upgrading from 2.4 to 2.4.1

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### 1. Description

Abiquo 2.4.1 packages upgrade the Abiquo platform servers of the Abiquo Monolithic and Abiquo Distributed installs. It is possible to upgrade Cloud in a Box but this upgrade is not supported.

Follow this documentation to upgrade every Abiquo server (Remote Services, V2V, Server).

You do not need to upgrade Abiquo Community Cloud Nodes (KVM, Xen Community, VirtualBox) and LVM storage servers with this release.

### 2. Prerequisites

This update is for 2.4. To perform a fresh install, you should install version 2.4 first and then install 2.4.1.

### 3. Preparation

#### 3.1. Back up your system and customized elements

Before making any changes to your system, ensure that you have a complete and validated system backup. Remember to back up all customized elements, such as branding. After upgrading your system, reapply branding, and check and reapply any other customizations as necessary. See [Backup and Restore of Customization for Upgrading Abiquo](#)

#### 3.2. Download the upgrade package

<http://download.abiquo.com/enterprise/updates/2.4/abiquo-upgrade-2.4.1.bin>

user: enterprise  
password: tCs3125

Package MD5:  
990d3936913761fbfd39f46932b7e077 abiquo-upgrade-2.4.1.bin

✓ **Download Command**

You can download it directly from the Abiquo Support server using the following command:

```
wget --user=enterprise --password=tCs3125 \  
http://download.abiquo.com/enterprise/updates/2.4/abiquo-upgrade-2.4.1.bin
```

## 4. Perform the upgrade

### 4.1. Remove customer access

You can prevent customers from accessing the platform by disabling all the physical machines in Abiquo (in Infrastructure view in the GUI) or using the API (setting state to HALTED).

### 4.2. Ensure all queues are empty and no tasks are in progress

On Remote Services check the status of RabbitMQ to ensure that there are no outstanding tasks

```
service rabbitmq-server status
```

This will provide the PID and tell us if it is running or not.

Check that there are no jobs in the queues:

```
# rabbitmqctl list_queues name messages consumers
```

The first number after each queue name is the number of messages in the queue and the second number is the number of consumers. If a queue is empty, the number of messages will be 0. The following example shows the result with empty queues. If there are any messages, you should wait for them to be consumed before proceeding with the upgrade.

```
Listing queues ...
abiquo.vsm.eventsynk 0 1
abiquo.nodecollector.notifications 0 1
abiquo.scheduler.requests 0 1
abiquo.tracer.traces 0 1
abiquo.datacenter.requests.Abiquo.virtualfactory 0 1
abiquo.ha.tasks 0 1
abiquo.am.notifications 0 1
abiquo.scheduler.slow.requests 0 1
abiquo.datacenter.requests.Abiquo.bpm 0 1
abiquo.datacenter.notifications 0 1
abiquo.scheduler.fast.requests 0 1
...done.
```

Messages may have been created by conversions in progress. You can check for any active V2V conversions by checking for the V2V or Mechadora processes. Wait for the conversions to finish before proceeding with the upgrade.

```
ps aux | grep v2v
ps aux | grep mechadora
```

See [ServiceManagement-v2vdiskmanager](#) for more information.

### 4.3. Run the Abiquo Upgrade Script

Upload the upgrade package to the /root directory of the Abiquo server (also to the remote services and V2V host if you have a distributed install).

Log in as root and run the following commands:

```
[root@localhost ~]# chmod +x abiquo-upgrade-2.4.1.bin
[root@localhost ~]# ./abiquo-upgrade-2.4.1.bin
```

#### 4.3.1. Upgrade the Abiquo Database

Upgrade the Abiquo database using the delta script.

```
mysql kinton <
/usr/share/doc/abiquo-server/database/kinton-delta-2.4.0-to-2.4.1.sql
```

#### 4.3.2. Start the abiquo-tomcat service

The upgrade bundle automatically stops the abiquo-tomcat service before upgrading. Start it to re-enable the service.

```
service abiquo-tomcat start
```

## 5. Verify the upgrade

```
[root@localhost ~]# cat /etc/abiquo-release  
Version: 2.4.1  
Edition: Enterprise
```

## 6. Clear the browser cache

Before logging in to Abiquo after an upgrade, all users should clear the browser cache on their machines.

## 7. RPM packages upgraded in this release

The upgrade to Abiquo 2.4.1 includes the following RPM packages:

```
abiquo-am-2.4.1-1.el5.20130517_0951.noarch.rpm  
abiquo-api-2.4.1-1.el5.20130522_1140.noarch.rpm  
abiquo-client-premium-2.4.1-1.el5.20130517_0950.noarch.rpm  
abiquo-nodcollector-2.4.1-1.el5.20130517_0949.noarch.rpm  
abiquo-release-ee-2.4.1-1.el5.noarch.rpm  
abiquo-server-2.4.1-1.el5.20130522_1242.noarch.rpm  
abiquo-ssm-2.4.1-1.el5.20130517_0949.noarch.rpm  
abiquo-v2v-2.4.1-1.el5.20130517_0947.noarch.rpm  
abiquo-virtualfactory-2.4.1-1.el5.20130517_0948.noarch.rpm  
abiquo-vsm-2.4.1-1.el5.20130517_0952.noarch.rpm
```

## 8. Release Notes for Abiquo 2.4.1

### 8.1. Resolved Bugs

Key	Summary
4927	Change default mouse input type of KVM from type='mouse' bus='ps2' to type='tablet' bus='usb'. This fix was tested with Abiquo KVM based on CentOS 5 and CentOS 6
5171	ESX cannot attach 8 volumes (SCSI 0:7 is reserved). From now on, when reordering disks, Abiquo will bypass SCSI 0:7 for disk 7 and attach the disk to 0:8
5222	If a physical machine is removed when there are captured virtual machines in vApps, this leaves those vApps in an incorrect state. From now on, when deleting a physical machine, captured virtual machines will be deleted. Captured virtual machines previously affected by this bug may be synchronized (on ESX hypervisors) or deleted manually using the API
5242	Libvirt KVM plugin adds an unnecessary loader tag in XML definition ( os.setLoader("/usr/bin/qemu-kvm");), which prevents VMs from starting. This bug affects KVM running on CentOS 6 systems.
5263	Virtual machine must be powered off to change "show password" behavior in the GUI
5281	In private networks, the VLAN tag remains assigned although there are no virtual machines deployed
5287	GUI reporting wrong disk size of deployed virtual machines. This bug affected templates uploaded using the GUI. The current size on disk was shown in the Apps Library and accounted for
5292	Clicking on Abiquo Support button twice causes error message to appear
5301	Removing the VDC_MANAGE_STORAGE privilege does not remove 'Volumes' tab on virtual machine configuration screen
5303	Instance of a captured virtual machine uses the last disk instead of the first one. This issue affected captured machines on ESX hypervisors with multiple disks but only when the primary disk was deployed as SCSI. From now on, bootable SCSI disks will be detected as the primary disk.
5305	Allow OVF without Product Section to enable import of OVF exported from VMware hypervisors
5307	(ESX) E1000 driver always used when attaching a NIC to DVS
5308	VmxNet3 NIC type of ESX is not recognized because Abiquo was expecting the name in upper-case. This fix will enable import of OVF exported by VMware hypervisors
5323	Deleting a virtual machine captured from an ESX hypervisor leaves the virtual machine in the database in the NOT_ALLOCATED state instead of deleting the VM from the database.

5327	Creating an instance of a vmrk_sparse template deployed in ESXi fails
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### 8.1.1. Resolved Security Bugs

These issues are not included in the standard release notes because of their security implications.

Key	Summary
5273	API allows users to create private networks outside rack VLAN ranges
5302	Access to vappsresources and vdcresources statistics resources in the API for all enterprises is allowed for all users. From now on, the API will check the user's enterprise for vApp, VDC and Enterprise resources calls