Cloud.com CloudStack 2.2   
Release Notes

February, 2011

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# Overview

These Release Notes provide a brief description of new features and known issues for the 2.2.0 release of the Cloud.com CloudStack.

Please read the Known Issues section before installing. The Installation Guide provides step by step instructions for installation.

**Upgrades to 2.2.0 are not yet supported. We will provide an upgrade path in February.**

We would like to hear your feedback. You may submit feedback to us at support@cloud.com.

# New Features in 2.2

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| **Issue Number** | **Issue Description** |
| 591 | Virtual Machines may have multiple NICs. |
| 6802 | Service offerings and disk offerings may be made private to a domain. |
| 1974 | The Virtual Router memory may be changed. |
| 2461 | A user may VPN into their virtual network using IPSec/L2TP. |
| 3120 | 1:1 NAT of public IPs is possible. |
| 3346 | There is a command line interface (CLI) tool for the CloudStack. It is called cloudadm. This tool is in a beta state and its syntax may change substantially in future releases. |
| 3386 | Zones may be dedicated to domains. This allows for hardware dedication and a higher level of isolation. |
| 3676 | Multiple hypervisor types may exist in the same CloudStack cloud. An individual cluster consists of nodes of the same hypervisor type. |
| 4286 | Templates may be extracted via HTTP download or HTTP POST. |
| 4774 | ISOs may be public. |
| 4836 | Limits may be set on a domain basis. This allows an administrator to prescribe aggregate limits that apply to a set of accounts. |
| 5060 | Disk offerings can have arbitrary sizes. |
| 5147 | Primary storage devices may be placed into a maintenance mode. Then they may be taken offline and later returned to service. |
| 5190,5191 | The URL used by the Console Proxy code and its associated SSL certificate may be configured and changed. |
| 5507 | VMware vSphere ESX/ESXi are supported as hypervisor types. The CloudStack can manage vCenter clusters or standalone nodes. |
| 5559 | Snapshots are supported for local disk storage. |
| 5592 | The DNS domain for guests may be configured. |
| 5688 | KVM CloudStack nodes now support VLANs for isolation. |
| 5784 | KVM CloudStack now supports snapshots. |
| 5800 | KVM CloudStack supports cluster functionality, analogous to vSphere and XenServer. |
| 6103 | The "look back period" for which the system considers a stopped VM to still be consuming resources is configurable. |
| 6994 | XenServer: administrators may add pre-existing SRs as primary storage to CloudStack. This enables support for FiberChannel storage. |
| 7871 | KVM: Shared mountpoint storage is available. This enables the use of clustered filesystems like OCFS2 as primary storage. |
| 8495 | Support Juniper SRX as a managed router for guest virtual networks. |
| 8496 | Support F5 load balancer as a managed device for load balancing in virtual networks. |
| <many> | There have been many API enhancements, including the ability to show the lineage of a volume, show a volume's attachment time, determine a cloud's capabilities, find the OS type of a virtual machine, search for deleted templates, and more. |

# API Changes

The API has had several enhancements for 2.2. There are a large number of small changes to the API. The API was significantly improved and made more consistent. As a result most applications developed against the API will need to be adapted to be compatible with 2.2.

2.2 API documentation is available at:

Global Admin: http://download.cloud.com/releases/2.2.0/api/TOC\_Global\_Admin.html

Domain Admin: http://download.cloud.com/releases/2.2.0/api/TOC\_Domain\_Admin.html

User: http://download.cloud.com/releases/2.2.0/api/TOC\_User.html

# Known Issues

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| **Issue Number** | **Issue Description** |
| 7935 | There is no reasonable mechanism to bill differently for guests of different hypervisor type when the guests are started from ISO images. |
| 8104 | If the secondary storage VM is down, booting a guest off ISO may fail. |
| 7762 | vSphere: when the Secondary Storage VM is on vSphere, the snapshot and template copying logic is currently executed from the Management Server. This means that the Management Server must have access to secondary storage. This function should reside in the Secondary Storage VM. We recommend that customers running a mixed hypervisor deployment set hypervisor.type to xenserver. |
| 8105 | KVM: NFS v4 for primary storage may not work. Use v3. |
| 8076 | KVM: Unable to process quoted strings in ifcfg-eth0 when setting up the CloudStack Agent. |
| 8486 | XenServer: putting a host into maintenance mode will fail if some guests do not have PV drivers. |
| 5573 | KVM: editing the name of a Pod will prevent VMs from starting. |
| <many> | The internationalization feature of the CloudStack is immature. Some strings have not been extracted and will still render in English. |