



Eucalyptus 3.1.2 Release Notes

2012-09-27 Eucalyptus Systems

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What is in this release?

Eucalyptus 3.1.2 adds improvements to the Eucalyptus Node Controller (NC) that address various fault conditions that appear when node controller machines are under heavy disk and network load. These include workarounds for handling cases where libvirt fails, dmsetup and losetup fail, and when concurrent disk operations become very slow due to external disk load. This is a maintenance release and does not add new features.

Resolved Issues

Eucalyptus 3.1.2 resolves issues listed in the following table.

Issue	Description
EUCA-3422	NC: gathering instance statistics can be slow, causing a long critical section to result in CC->NC communication problems
EUCA-3424	NC: if an NC dependency throws a SIGALRM, the parent NC httpd process will kill the NC daemon
EUCA-3427	NC: libvirt connection gets confused over time
EUCA-3421	NC: loses track of instances when libvirtd segfaults
EUCA-3423	NC: multiple instance backing store cleanup can be slow if IO load on NC host is high, causing CC->NC communication problems
EUCA-3426	NC: observed interaction problem with libcurl4 when called in parallel from NC during image download
BROKER-9	VMware Broker requires eucalyptus user to have write access to the /etc/eucalyptus directory
EUCA-3425	NC: shellout to getstats.pl should be wrapped in the hypervisor semaphore to avoid libvirt thread race conditions
EUCA-3420	NC: under high IO load, several dependencies during instance creation can timeout, resulting in failure to run instance

Resolved Security Issues

No security vulnerabilities have been fixed in this release.

Known Issues

The following known issues exist in Eucalyptus 3.1.2 and its dependencies. Please contact Eucalyptus support for known workarounds to these issues.

Issue	Description
euca-bundle-instance does not work with remote WALRUS (EUCA-3460)	When Walrus is running on a host different from the CLC host, euca-bundle-instance does not work.
Walrus does not failover in HA if eucalyptus-cloud process is forcibly killed on primary (EUCA-3202)	If the eucalyptus-cloud process is forcibly terminated (kill -9) on the primary Walrus, failover to the secondary Walrus is not automatically triggered.
Quota exceed message when quota is not actually exceeded. (EUCA-3612)	euca-allocate-address claims that user's quota has been exceeded when attempting to allocate the last address in the quota limit. Request actually succeeds despite failure message.
Quota limiting against vmtype doesn't work (EUCA-3613)	Quota which limits the number of instances against a resource of a specific vmtype has no effect.
DescribeInstances api call does not return ip addresses (EUCA-2185)	With DNS mapping assigned to Instances the DescribeInstances command does not return the internal and external ip addresses. It returns the internal and external dns entries.
VNET_DNS value is not the only DNS IP in resolv.conf (EUCA-2281)	Along with the value of VNET_DNS a local loopback interface IP 127.0.0.1 is also set in the /etc/resolv.conf of the instance.
Ephemeral targets left behind with BFEBS (EUCA-2291)	In case of BFEBS, LUN 0 is left behind when using tgt. This does not affect functionality, but it should be cleaned up
L2TP tunnel does not get established in multi-cluster (EUCA-3294)	When Eucalyptus is setup in multi-cluster, no tunnel is setup when instances run on different clusters in the same security group.
euca-stop-instances does not return correct information (EUCA-3294)	euca-stop-instances only returns the instance identifier and does not return the previous or the current state of the instance.
euca-start-instances does not return correct information (EUCA-3311)	euca-start-instances only returns the instance identifier and does not return the previous or the current state of the instance.
ENABLED CC have two NAT rules about 169.254.169.254 (EUCA-3440)	In HA Mode, ENABLED CC can get into a state where it reports both ENABLED and DISABLED CLC in iptables for the metadata service.
euca-describe-nodes does not return consistent results (EUCA-3456)	The output of euca-describe-nodes is not consistent.
Storage interface property does not have any effect (EUCA-3458)	The storage.storageinterface is deprecated and does not have any effect.
BFEBS instance has a redundant device /dev/vdb (EUCA-3458)	EBS backed instances should not expose ephemeral storage by default.

Issue	Description
Terminating the ebs-backed instance in the middle of its creation doesn't delete its ebs volume (EUCA-3452)	If an EBS backed instance is terminated while it is still pending, the corresponding EBS volume remains in the "deleting" state.
Quota limiting run instances against availabilityzone resource does not work (EUCA-3614)	A policy which limits the number of instances which can be run within an availability zone has no effect.
euca-create-image from ebs backed instance fails, returns 0 (EUCA-1333)	euca-create-image is currently unsupported.
EBS backed stopped instances still reports IPs (EUCA-2184)	When an EBS backed instance is stopped , euca-describe-instances still shows an IP allocated and associated to the instance.
Incorrect Device Reported for EBS Root Volumes (EUCA-2184)	When using VIRTIO, EBS root volumes reported by euca-describe-volumes appear as /dev/sda1 instead of /dev/vda1
You cannot restrict launch of an image with launch permissions (EUCA-1929)	Restricting launch permissions based on a user ID does not work.
File names with % embedded fail to upload to Walrus. (EUCA-3453)	Unable to upload files with an embedded % to Walrus
Cannot detach EBS volume from stopped instance (EUCA-2411)	Unable to detach root EBS volume when an instance is in the "stopped" state
CLC always returns A response for AAAA or TXT DNS query (EUCA-2329)	With DNS delegation enabled and eucalyptus subdomain configured in master DNS server, if the master DNS server sends a AAAA or TXT query the CLC always returns A response.