



Euca2ools Release Notes

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Overview and Help

Eucalyptus is open source software for building Amazon Web Services compatible private and hybrid clouds. The release notes for Euca2ools are divided by release number, presented in order from current release to past releases. If you are already using Euca2ools, you can check updates from your older release and compare it with a later release.

Where to Get More Help

The following resources can help you to learn more, connect with other Eucalyptus users, or get actively involved with Eucalyptus development.

- The Eucalyptus IRC channel is [#eucalyptus](#) on Freenode. This channel is used for real-time communication among users and developers. Information on how to use the network is available from [Freenode](#).
- Subscribe to one or more of the [Eucalyptus mailing lists](#), which provide ways to ask questions and get assistance from the community.
- Search for technical articles in the [Knowledge Base](#) to find answers to your questions and learn about best practices.
- Check out the [Eucalyptus Support](#) pages for more ideas.

Where to Download Euca2ools

To download and install the latest version of Euca2ools, go to [Installing Euca2ools](#).

Eucalyptus Compatibility

For information about which Euca2ools version is compatible with your version of Eucalyptus, see the [Compatibility Matrix](#) in the [Release Notes](#).

Comments

For corrections and suggestions about this document, send an email to euca-users@eucalyptus.com. We look forward to your communication and thank you in advance for helping us improve our documentation and our product.

3.4.1

This section contains release notes for Euca2ools version 3.4.1.

What's New?

Euca2ools 3.4.1 has the following new features.

Feature	Description
Improved functionality	The configuration file that ships with Euca2ools now contains the new AWS eu-west-2 region in London. TOOLS-673

Resolved Issues

Euca2ools 3.4.1 resolves issues listed in the following table.

Issue	Description
TOOLS-674	A regression that caused euca-upload-bundle and euca-bundle-and-upload-image to prompt for access keys, even when given upload policies, has been fixed.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.4.1.

For workarounds and prescriptive guidance, contact Eucalyptus Support.

Issue	Description
TOOLS-518	euca-bundle-vol does not install boot loader on newly created image.

3.4.0

This section contains release notes for Euca2ools version 3.4.0.

What's New?

Euca2ools 3.4.0 has the following new features.

Feature	Description
Euca2ools 3.4.0 requires newer minimum versions of <code>requestbuilder</code> and <code>six</code> libraries	Minimum versions required: • <code>requestbuilder</code> 0.6 • <code>six</code> 1.8
<code>euca-bundle-vol</code> default configuration changes	The default configuration for <code>euca-bundle-vol</code> now excludes the following directories in addition to those it excluded in previous releases. To customize this behavior, edit <code>/etc/euca2ools/bundle-vol/excludes</code> or use the <code>--no-filter</code> command line option. • <code>/run</code> • <code>/tmp</code> • <code>/var/cache</code> • <code>/var/run</code> • <code>/var/tmp</code>
<code>euca-associate-address</code> option	The <code>--no-allow-reassociation</code> option explicitly prevents an address that is in use from being reassociated with another network interface.
Support added to retrieve information about the currently active set of access keys	The new <code>euare-getcallerid</code> command makes it possible to request the ARN, account number, and other relevant information about the currently active set of access keys.
Support added to view CloudFormation template attributes	It is now possible to view attributes of a CloudFormation template, such as its parameters, without creating a stack using the new <code>euform-get-template-summary</code> command. TOOLS-607
<code>euwatch-put-data</code> updates TOOLS-612	• now supports reporting multiple metric data in a single invocation using the <code>-v</code> or <code>-s</code> options multiple times. • <code>-s</code> option now accepts arbitrary attributes for metric data, making it possible to report data for multiple metrics or timestamps in a single invocation. See the command's documentation for additional details. The long name for <code>-s</code> is now <code>--metric-datum</code>. Its previous name, <code>--statistic-values</code>, continues to function as it did in previous releases.
VPC network interface limits	<code>euca-describe-instance-type</code> and <code>euca-modify-instance-type</code> now support VPC network interface limits. TOOLS-614
<code>euare</code> commands update	<code>euare</code> commands that output <code>euca2ools.ini</code> files will replicate the <code>verify-ssl</code> option in its output if that option is set. TOOLS-631

Feature	Description
A failed CloudFormation rollback operation can be retried	It is now possible to retry a failed CloudFormation rollback operation using the new <code>euform-continue-rollback</code> command. TOOLS-637
VPC NAT gateways can now be created and managed	It is now possible to create and manage VPC NAT gateways using the new <code>euca-create-nat-gateway</code> , <code>euca-delete-nat-gateway</code> , and <code>euca-describe-nat-gateway</code> commands. TOOLS-640 TOOLS-641 TOOLS-642
Support added for NAT gateways	<code>euca-create-route</code> and <code>euca-describe-routes</code> now support NAT gateways. TOOLS-643 TOOLS-644
<code>euform-update-stack</code> no longer requires one to supply it with a template	When no template is specified, the CloudFormation service will reuse the existing template. TOOLS-650
New commands added to support OpenID Connect providers' integration with Eucalyptus and AWS	The following new commands add support for managing OpenID Connect providers' integration with Eucalyptus and AWS: TOOLS-653 <code>euare-oidcprovideraddclientid</code> <code>euare-oidcproviderchangethumbprint</code> <code>euare-oidcprovidercreate</code> <code>euare-oidcproviderdel</code> <code>euare-oidcproviderdelclientid</code> <code>euare-oidcprovidergetattribute</code> <code>euare-oidcproviderlist</code>
<code>euform-get-template-summary</code> update	For CloudFormation template parameters with restrictions on allowed values, <code>euform-get-template-summary</code> now displays these allowed values. TOOLS-660
Regions added to the AWS configuration file	The configuration file for AWS now includes the <code>us-east-2</code> , <code>ca-central-1</code> , <code>ap-south-1</code> , and <code>ap-northeast-2</code> regions. TOOLS-661 TOOLS-670

Resolved Issues

Euca2ools 3.4.0 resolves issues listed in the following table.

Issue	Description
	A compatibility issue with Requests 2.11 has been addressed.
	<code>euca-bundle-vol</code> now detects the type of partition table of the disk the root filesystem resides on significantly more reliably.
TOOLS-546	<code>euca-describe-subnets</code> now supports the <code>cidr</code> and <code>cidrBlock</code> filters. These function identically to the <code>cidr-block</code> filter that already existed.
TOOLS-564	<code>euca-bundle-vol</code> no longer fails due to UUID conflicts when used on XFS filesystems.
TOOLS-584	<code>euscale-describe-launch-configs</code> now includes user-data in the detailed output it displays when given the <code>--show-long</code> option.

Issue	Description
<u>TOOLS-604</u>	Specifying a user name using the AWS_DEFAULT_REGION environment variables can break third party clients that do not recognize that syntax. To work around this, use the new EUCA_DEFAULT_REGION environment variable instead. When specified, this will take precedence over AWS_DEFAULT_REGION.
<u>TOOLS-610</u>	euca-describe-instances now displays instance IDs as part of VPC network interface attachments
<u>TOOLS-625</u>	euform-validate-template now outputs capability reasons correctly.
<u>TOOLS-630</u>	euca-bundle-image no longer fails with an authorization error when IAM policy prevents it from automatically retrieving cloud certificates. This will not prevent euca-bundle-image from failing; to resolve the issue, obtain an IAM policy that permits the euserv:DescribeServiceCertificates operation or supply the cloud's certificate using the -ec2cert command line option or the cert region option in euca2ools.ini.
<u>TOOLS-633</u>	When run against Eucalyptus, euca-bundle-vol now automatically retrieves cloud certificates in the same manner as euca-bundle-image.
<u>TOOLS-634</u>	euca-describe-route-tables now prefers to display network interface IDs to instance IDs when displaying routes that point to instances' network interfaces.
<u>TOOLS-639</u>	euca-run-instances's - -associate-public-ip-address option now works against default VPCs.
<u>TOOLS-646</u>	euca-import-instance now sends user-data to the server correctly.
<u>TOOLS-647</u>	euca-modify-instance-attribute can now delete instances' user-data.
<u>TOOLS-651</u>	euare-accountlistpolicies -v no longer fails when using credentials originating from euca2ools.ini files.
<u>TOOLS-655</u>	euare-assumerole no longer generates invalid session names when run against AWS.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.4.0.

For workarounds and prescriptive guidance, contact Eucalyptus Support.

Issue	Description
<u>TOOLS-518</u>	euca-bundle-vol does not install boot loader on newly created image.

3.3.3

This section contains release notes for Euca2ools version 3.3.3.

What's New?

Euca2ools 3.3.3 has the following new features.

Feature	Description
Improved functionality	The configuration file that ships with Euca2ools now contains the new AWS eu-west-2 region in London. TOOLS-673

Resolved Issues

Euca2ools 3.3.3 resolves issues listed in the following table.

Issue	Description
TOOLS-674	A regression that caused euca-upload-bundle and euca-bundle-and-upload-image to prompt for access keys, even when given upload policies, has been fixed.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.3.3.

For workarounds and prescriptive guidance, contact Eucalyptus Support.

Issue	Description
TOOLS-518	euca-bundle-vol does not install boot loader on newly created image.

3.3.2

This section contains release notes for Euca2ools version 3.3.2.

What's New?

Euca2ools 3.3.2 has the following new features.

Feature	Description
Improved functionality	The configuration file for AWS now includes the us-east-2, ca-central-1, ap-south-1, and ap-northeast-2 regions. TOOLS-661 TOOLS-670

Resolved Issues

Euca2ools 3.3.2 resolves issues listed in the following table.

Issue	Description
	A compatibility issue with Requests 2.11 has been addressed.
	euca-bundle-vol now detects the type of partition table of the disk the root filesystem resides on significantly more reliably.
TOOLS-564	euca-bundle-vol no longer fails due to UUID conflicts when used on XFS filesystems.
TOOLS-625	euform-validate-template now outputs capability reasons correctly.
TOOLS-633	When run against Eucalyptus, euca-bundle-vol now automatically retrieves cloud certificates in the same manner as euca-bundle-image.
TOOLS-639	euca-run-instances's <code>--associate-public-ip-address</code> option now works against default VPCs.
TOOLS-646	euca-import-instance now sends user-data to the server correctly.
TOOLS-647	euca-modify-instance-attribute can now delete instances' user-data.
TOOLS-651	euare-accountlistpolicies -v no longer fails when using credentials originating from euca2ools.ini files.
TOOLS-655	euare-assumerole no longer generates invalid session names when run against AWS.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.3.2.

For workarounds and prescriptive guidance, contact Eucalyptus Support.

Issue	Description
<u>TOOLS-518</u>	euca-bundle-vol does not install boot loader on newly created image.

3.3.1

This section contains release notes for Euca2ools version 3.3.1.

What's New?

Euca2ools 3.3.1 has the following new features.

Feature	Description
Improved functionality	• <code>euca-authorize</code> and <code>euca-revoke</code> now support 68-bit security group IDs. • <code>euform-create-stack</code> now returns an error when given tags with empty names. • <code>euform-create-stack</code> no longer sends a <code>DisableRollback</code> option unless it is explicitly requested. • <code>euca-bundle-and-upload-image --debug</code> no longer crashes when no signing certificate is available. • <code>euca-bundle-image</code> now supports the <code>ppc64le</code> architecture. • <code>euform-update-stack</code> now supports updating and deleting tags with new <code>--tag</code> and <code>--delete-tags</code> options.

Resolved Issues

Euca2ools 3.3.1 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-597</u>	<code>euwatch-put-data</code> now formats dimensions correctly when sending them to the server.
<u>TOOLS-616</u>	<code>euca-describe-route-tables</code> now supports the <code>route.instance-id</code> filter.
<u>TOOLS-610</u>	<code>euca-describe-network-interfaces</code> now displays attachment IDs when the server provides them. Note: A portion of the fix for <code>TOOLS-610</code> is delayed until the next minor release of <code>euca2ools</code> because it changes the command's output in a backwards-incompatible manner.
<u>TOOLS-578</u>	<code>euca-describe-groups</code> now supports the generic <code>tag:KEY</code> filter for tags.
<u>TOOLS-575</u>	The documentation for <code>euca-upload-bundle's --part</code> option, which previously had no effect, has been removed. That option continues to be silently ignored.
<u>TOOLS-603</u>	<code>euare-rolecreate's -f</code> option now has a longer equivalent: <code>--trust-policy</code> .
<u>TOOLS-608</u>	<code>euca-fingerprint-key</code> now returns an error when given a file that is not a private key.
<u>TOOLS-621</u>	<code>euca-describe-network-interfaces</code> now displays resource tags.
<u>TOOLS-613</u>	<code>euform-update-stack</code> now supports the <code>--capabilities</code> option.
<u>TOOLS-592</u>	<code>eulb-create-lb</code> now supports creating tags with a new <code>--tag</code> option.

Known Issues

This topic lists known issues in Euca2ools 3.3.1.

Please contact Eucalyptus Support for known workarounds to these issues.

Issue	Description
<u>TOOLS-518</u>	euca-bundle-vol does not install boot loader on newly created image.

3.3.0

This section contains release notes for Euca2ools version 3.3.0.

What's New?

Euca2ools 3.3.0 has the following new features.

Feature	Description
Improved client endpoint configuration.	Cloud users can obtain a list of the cloud's service endpoints in a simple way that is not conflated with credential creation. <code>euare-accountcreate</code>, <code>euare-usercreate</code>, and <code>euare-useraddkey</code> gained a <code>-w/--write-config</code> option that allows them create new access keys and output a <code>euca2ools.ini</code> file instead of their usual output formats, simplifying credential distribution. The service URLs it generates will be based on the IAM service's DNS domain; if the IAM service is accessed by IP address, the output will not contain service URLs. The <code>-d/--domain</code> option can be used to override this by choosing the domain name explicitly. Finally, the <code>-l/--set-default-user</code> option allows the output to set the given user as the default user for the region. Two examples are shown below: <pre>euare-useraddkey alice -w > ~/.euca/alice.ini euare-accountcreate bob -wld mycloud.example.com mail -s "Your credentials" bob@example.com</pre>
Euca2ools 3.3.0 now requires version 0.4 of the <code>requestbuilder</code> python library.	If you install <code>euca2ools</code> with Eucalyptus-provided RPM packages, <code>requestbuilder</code> will be installed automatically.
All commands now use AWS signature version 4 for all services except S3.	AWS signature version 4 can additionally be enabled for S3 on a per-region basis with the <code>s3-force-sigv4</code> region option in <code>euca2ools.ini</code>. Note: Eucalyptus 4.2's object storage gateway is not compatible with AWS signature version 4.
Commands that bundle images no longer require signing certificates or private keys to run.	Images bundled without signing certificates are incompatible with Eucalyptus 4.1 and earlier and cannot be unbundled without cloud administrator assistance. If the commands have been configured with the bootstrap service's endpoint and the cloud runs Eucalyptus 4.2 or later, running the commands can fetch the cloud's signing certificate automatically. Typical users require the <code>euserv:DescribeServiceCertificates</code> capability in their IAM policies to use this functionality.
ECC retired.	The Eucalyptus Community Cloud (ECC) was decommissioned in mid-2015 and therefore, its configuration file has been removed.

Feature	Description
New load balancer commands added.	The <code>eulb-create-tags</code> , <code>eulb-describe-tags</code> , and <code>eulb-delete-tags</code> commands allow one to create, view, and delete tags on load balancers, respectively. The <code>eulb-describe-load-balancer-attributes</code> and <code>eulb-modify-lb-attributes</code> provide the ability to inspect and modify load balancers' attributes.
Entering multiple attributes simplified.	The <code>eulb-create-lb-policy</code> command gained a <code>-A</code> option that simplifies entering multiple attributes.
Added STS support to tools.	The <code>euare-assumerole</code> and <code>euare-releaserole</code> commands can now be used inside an <code>eval</code> command to assume IAM roles.
Removed the <code>EUARE_URL</code> environment variable.	The previously-deprecated support for the <code>EUARE_URL</code> environment variable has been removed. Use the <code>AWS_IAM_URL</code> variable instead.
Support added for IAM positional options.	For IAM commands that act on only one entity, those entities' names may now be supplied positionally. For example, <code>euare-usercreate alice</code> works the same as <code>euare-usercreate -u alice</code> .
Two Eucalyptus services can now be specified in <code>euca2ools.ini</code> files.	The Eucalyptus-specific <code>bootstrap</code> and <code>properties</code> services may now be specified in <code>euca2ools.ini</code> files for use with Eucalyptus's admin tools as well as <code>euca2ools</code> commands that bundle images.
New region added.	Added support for <code>eu-central-1</code> region, which covers AWS's new Frankfurt-based region.

Resolved Issues

Euca2ools 3.3.0 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-579</u>	The default configuration for localhost now contains a CloudFormation URL.
<u>TOOLS-594</u>	<code>euca-unbundle</code> and <code>euca-download-and-unbundle</code> mistakenly treated some non-corrupt bundles as corrupt, which causes them to fail.

Known Issues

This topic lists known issues in Euca2ools 3.3.0.

Please contact Eucalyptus Support for known workarounds to these issues.

Issue	Description
<u>EUCA-11519</u>	When an administrator uses HTTPS and doesn't enable certificate verification, running any command thereafter, will display the <code>InsecureRequestWarning</code> message. Workaround: Use a valid certificate and set <code>verify-ssl = true</code> in the region's configuration, or use plain HTTP.

3.2.3

This section contains release notes for Euca2ools version 3.2.3.

Note: This is the last planned 3.2 release.

What's New?

Euca2ools 3.2.3 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.2.3 resolves issues listed in the following table.

Issue	Description
	A compatibility issue with Requests 2.11 has been addressed.
	euca-bundle-vol now detects the type of partition table of the disk the root filesystem resides on significantly more reliably.
<u>TOOLS-564</u>	euca-bundle-vol no longer fails due to UUID conflicts when used on XFS filesystems.
<u>TOOLS-625</u>	euform-validate-template now outputs capability reasons correctly.
<u>TOOLS-639</u>	euca-run-instances's <code>--associate-public-ip-address</code> option now works against default VPCs.
<u>TOOLS-646</u>	euca-import-instance now sends user-data to the server correctly.
<u>TOOLS-647</u>	euca-modify-instance-attribute can now delete instances' user-data.
<u>TOOLS-651</u>	euare-accountlistpolicies -v no longer fails when using credentials originating from euca2ools.ini files.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.2.3.

For workarounds and prescriptive guidance, contact Eucalyptus Support.

Issue	Description
<u>TOOLS-518</u>	euca-bundle-vol does not install boot loader on newly created image.

3.2.2

This section contains release notes for Euca2ools version 3.2.2.

What's New?

Euca2ools 3.2.2 has the following new features.

Feature	Description
Improved functionality	• euca-authorize and euca-revoke now support 68-bit security group IDs. • euform-create-stack now returns an error when given tags with empty names. • euform-create-stack no longer sends a DisableRollback option unless it is explicitly requested.
Removed feature	Configuration for the retired Eucalyptus Community Cloud has been removed.

Resolved Issues

Euca2ools 3.2.2 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-597</u>	euwatch-put-data now formats dimensions correctly when sending them to the server.
<u>TOOLS-616</u>	euca-describe-route-tables now supports the route.instance-id filter.
<u>TOOLS-610</u>	euca-describe-network-interfaces now displays attachment IDs when the server provides them. Note: A portion of the fix for TOOLS-610 is delayed until the next minor release of euca2ools because it changes the command's output in a backwards-incompatible manner.
<u>TOOLS-578</u>	euca-describe-groups now supports the generic tag:KEY filter for tags.
<u>TOOLS-575</u>	The documentation for euca-upload-bundle's --part option, which previously had no effect, has been removed. That option continues to be silently ignored.
<u>TOOLS-603</u>	euare-rolecreate's -f option now has a longer equivalent: --trust-policy.
<u>TOOLS-608</u>	euca-fingerprint-key now returns an error when given a file that is not a private key.

Issue	Description
<u>TOOLS-621</u>	euca-describe-network-interfaces now displays resource tags.
<u>TOOLS-613</u>	euform-update-stack now supports the --capabilities option.
<u>TOOLS-579</u>	A CloudFormation URL for the localhost region has been added.
<u>TOOLS-593</u>	euwatch-get-stats --period's default value of 60 seconds is now sent to the server when the option is left unspecified.
<u>TOOLS-594</u>	euca-unbundle and euca-download-and-unbundle no longer consider bundles with certain checksums to be corrupt.

Known Issues

No known issues.

3.2.1

This section contains release notes for Euca2ools version 3.2.1.

What's New?

Euca2ools 3.2.1 has the following new features.

Feature	Description
New euca2ools.ini man page	The new man page documents the euca2ools configuration files.

Resolved Issues

Euca2ools 3.2.1 resolves issues listed in the following table.

Issue	Description
EUCA-9481	Account registration status will be removed from eucalyptus 4.2. The euare-usermod documentation now reflects that.
TOOLS-547	euca-describe-snapshots no longer sends requests that filter by snapshots' owners or restorers when asked to describe a list of specific snapshots.
TOOLS-553	euca-run-instances now accepts a --associate-public-ip-address option, which assigns public IP addresses to the instances it creates, even if the subnet in which they reside is configured to not assign them by default.
TOOLS-554	euare-accountgetsummary now accepts the --as-account option.
TOOLS-557	euare-accountcreate no longer requires an account name. Note that account names are still required by Eucalyptus 4.1 and earlier. To add a name to an account that lacks one, use euare-accountaliascreate.
TOOLS-559	Images created by euca-bundle-image and images that contain block device mappings now function correctly in EC2.
TOOLS-560	euca-authorize and euca-revoke can now create and delete rules with arbitrary <u>IANA-assigned protocol numbers</u> as well as the special values "all" and "-1", which refer to all network traffic, in VPC security groups. As a convenience, if a protocol is specified by name, then euca-authorize and euca-revoke will consult /etc/protocols to discover its number.

Issue	Description
<u>TOOLS-574</u>	<code>euca-upload-bundle --skipmanifest</code> option now works correctly.
	<code>euare-rolecreate --service</code> is now read from the command line correctly.
	EC2 no longer requires special privileges to use <code>euca-bundle-image</code> and <code>euca-install-image --virtualization-type</code> options. Those commands' documentation now reflects that.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.2.1. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-385</u>	Some euca2ools commands may fail when used to work with resources that use non-ASCII characters.
<u>TOOLS-514</u>	HTTPS certificate validation cannot be disabled. Either use plain HTTP or ensure your cloud uses a certificate that was signed by a certificate authority the client trusts.

3.2.0

This section contains release notes for Euca2ools version 3.2.0.

What's New?

Euca2ools 3.2.0 has the following new features.

Feature	Description
EC2 API version updated	EC2 API-compatible commands have been updated to API version 2014-06-15.
Virtual Private Cloud (VPC) tools added	This release adds tech preview support tools for Virtual Private Cloud (VPC).
VMDK import support added	This release adds support for importing disk images in the VMDK format.

Resolved Issues

Euca2ools 3.2.0 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-294</u>	Bundles generated by euca-bundle-image now work with EC2.
<u>TOOLS-487</u>	euca-describe-groups changed to always show both the names and IDs of any security groups that security group rules refer to.
<u>TOOLS-504</u>	euform-describe-stacks now shows stacks' parameters
<u>TOOLS-516</u>	euform-describe-stack-resources now displays the reasons for resources' statuses.
<u>TOOLS-526</u>	euca-describe-vpcs now displays whether or not each VPC is the default VPC.
<u>TOOLS-528</u>	euform-validate-template --template-url now no longer behaves the same as --template-file.
<u>TOOLS-529</u>	euca-describe-instances now displays VPC private address information correctly.
<u>TOOLS-530</u>	euca-run-instances no longer mixes interface-level and instance-level networking options when running instances in a VPC.
<u>TOOLS-533</u>	euare-servercertupload now handles certificate chain files correctly.
<u>TOOLS-534</u>	euare-usercreate has a new --verify option that ensures the group named with -g exists before doing anything.

Issue	Description
<u>TOOLS-535</u>	euform-validate-template now handles outputs that contain capability information correctly.
<u>TOOLS-536</u>	euform-create-stack now supports supplying the capability information necessary for nested templates with a new --capabilities option.
<u>TOOLS-539</u>	euca-create-vpc's --tenancy option now works correctly.
<u>TOOLS-542</u>	euare-userlistcerts now displays the user names of certificates' owners.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.2.0. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-385</u>	Some euca2ools commands may fail when used to work with resources that use non-ASCII characters.
<u>TOOLS-514</u>	HTTPS certificate validation cannot be disabled. Either use plain HTTP or ensure your cloud uses a certificate that was signed by a certificate authority the client trusts.

3.1.3

This section contains release notes for Euca2ools version 3.1.3.

What's New?

Euca2ools 3.1.3 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.1.3 resolves issues listed in the following table.

Issue	Description
<u>EUCA-9481</u>	Account registration status will be removed from eucalyptus 4.2. The <code>euare-usermod</code> documentation now reflects that.
<u>TOOLS-554</u>	<code>euare-accountgetsummary</code> now accepts the <code>--as-account</code> option.
<u>TOOLS-559</u>	Images created by <code>euca-bundle-image</code> and images that contain block device mappings now function correctly in EC2.
<u>TOOLS-560</u>	<code>euca-authorize</code> and <code>euca-revoke</code> can now create and delete rules with arbitrary http://www.iana.org/assignments/protocol-numbers/protocol-numbers.xhtml as well as the special values "all" and "-1", which refer to all network traffic, in VPC security groups. As a convenience, if a protocol is specified by name, then <code>euca-authorize</code> and <code>euca-revoke</code> will consult <code>/etc/protocols</code> to discover its number.
<u>TOOLS-574</u>	<code>euca-upload-bundle --skipmanifest</code> option now works correctly.
	<code>euare-rolecreate --service</code> is now read from the command line correctly.
	EC2 no longer requires special privileges to use <code>euca-bundle-image</code> and <code>euca-install-image --virtualization-type</code> options. Those commands' documentation now reflects that.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.1.3. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-385</u>	Some euca2ools commands may fail when used to work with resources that use non-ASCII characters.
<u>TOOLS-514</u>	HTTPS certificate validation cannot be disabled. Either use plain HTTP or ensure your cloud uses a certificate that was signed by a certificate authority the client trusts.

3.1.2

This section contains release notes for Euca2ools version 3.1.2.

What's New?

Euca2ools 3.1.2 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.1.2 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-294</u>	Bundles generated by euca-bundle-image now work with EC2.
<u>TOOLS-504</u>	euform-describe-stacks now shows stacks' parameters
<u>TOOLS-516</u>	euform-describe-stack-resources now displays the reasons for resources' statuses.
<u>TOOLS-526</u>	euca-describe-vpcs now displays whether or not each VPC is the default VPC.
<u>TOOLS-528</u>	euform-validate-template --template-url now no longer behaves the same as --template-file.
<u>TOOLS-529</u>	euca-describe-instances now displays VPC private address information correctly.
<u>TOOLS-530</u>	euca-run-instances no longer mixes interface-level and instance-level networking options when running instances in a VPC.
<u>TOOLS-533</u>	euare-servercertupload now handles certificate chain files correctly.
<u>TOOLS-535</u>	euform-validate-template now handles outputs that contain capability information correctly.
<u>TOOLS-536</u>	euform-create-stack now supports supplying the capability information necessary for nested templates with a new --capabilities option.
<u>TOOLS-539</u>	euca-create-vpc's --tenancy option now works correctly.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.1.2. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-385</u>	Some euca2ools commands may fail when used to work with resources that use non-ASCII characters.
<u>TOOLS-514</u>	HTTPS certificate validation cannot be disabled. Either use plain HTTP or ensure your cloud uses a certificate that was signed by a certificate authority the client trusts.

3.1.1

This section contains release notes for Euca2ools version 3.1.1.

What's New?

Euca2ools 3.1.1 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.1.1 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-447</u>	Version 0.2.2 of the requestbuilder library ships alongside euca2ools 3.1.1, making HTTP_PROXY and HTTPS_PROXY work correctly.
<u>TOOLS-478</u>	euca-bundle-instance now attempts to obtain access key IDs and secret keys from configuration files when they are not specified at the command line.
<u>TOOLS-482</u>	euare-instanceprofiledel -r/--recursive now attempts to delete any roles that are associated with the instance profile that is being deleted. If other resources, such as other instance profiles, prevent a role from being deleted then the command will fail. Running euare-roledel -r/--recursive can overcome this.
<u>TOOLS-488</u>	euca-import-instance now encodes user-data correctly.
<u>TOOLS-489</u>	euca-describe-instances now shows instances' architectures.
<u>TOOLS-491</u>	euca-import-instance and euca-import-volume now provide more useful error output when bucket creation fails.
<u>TOOLS-495</u>	euca-run-instances now handles user-supplied private addresses correctly.
<u>TOOLS-496</u>	euca-describe-instances now accepts an "iam-instance-profile.arn" filter.
<u>TOOLS-497</u>	For consistency with euca-create-vpc, euca-create-subnet will work correctly when address ranges are specified positionally. The -i/--cidr option is still recommended and continues to work.
<u>TOOLS-498</u>	euca-describe-subnets now shows subnets' address ranges.

Issue	Description
<u>TOOLS-503</u>	For AWS compatibility, euform-create-stack's and euform-update-stack's -p/--parameter option now accepts more than one parameter with a single option by separating the parameters with semicolons. When it is used multiple times, the option still works as before.
<u>TOOLS-510</u>	euca-modify-instance-attribute -t/--instance-type now works correctly.
<u>TOOLS-512</u>	euform-describe-stacks now lists stacks' outputs.
NA	euscale-create-launch-config now allows one to specify whether the service will associate public addresses with VPC instances created by a launch configuration. Use "--associate-public-ip-address true" or "--associate-public-ip-address false" to control this.
<u>TOOLS-486</u>	euare-userdelcert and euare-userdelkey no longer require -u/--user. When that option is omitted they will act upon the user that the command is running as.
<u>TOOLS-490</u>	euca-describe-instances's "block-device-mapping.delete-on-termination" filter now passes its inputs to the server using lowercase.
<u>TOOLS-494</u>	euca-describe-snapshot-attribute and euca-reset-snapshot-attribute were missing from previous releases. This has been fixed.
<u>TOOLS-500</u>	euca-describe-groups now accepts an "ip-permission.group-id" filter.
<u>TOOLS-501</u>	euca-authorize's -s/--cidr option now works with the --egress option.
<u>TOOLS-513</u>	euare-usercreatecert no longer requires -u/--user. When that option is omitted it will act upon the user that the command is running as.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.1.1. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
Cert validation cannot be disabled when using requests < 1.2.0 (<u>TOOLS-480</u>)	Please see the linked bug for more information.

3.1.0

This section contains release notes for Euca2ools version 3.1.0.

What's New?

Euca2ools 3.1.0 has the following new features.

Feature	Description
CloudFormation tools added	This release adds tools for AWS CloudFormation.
Image management tools added	We've added or enhanced commands for Eucalyptus' new Image Management Service, including <code>euca-install-image</code> , <code>euca-import-volume</code> , <code>euca-bundle-vol</code> , and <code>euca-import-instance</code> .
IAM commands added	New commands for IAM roles and instance profiles have been added in this release.

Resolved Issues

Euca2ools 3.1.0 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-392</u>	Ephemeral block device mappings are displayed incorrectly
<u>TOOLS-477</u>	<code>euca-bundle-instance</code> doesn't return manifest path for easy registration of image
<u>TOOLS-404</u>	Use <code>/etc/services</code> to make specifying port numbers easier
<u>TOOLS-461</u>	<code>euca-import-volume</code> won't create bucket on user's behalf
<u>TOOLS-460</u>	' <code>datetime.timedelta</code> ' object has no attribute ' <code>total_seconds</code> '
<u>TOOLS-449</u>	<code>euca-describe-instance-status</code> fails with: No module named <code>dateutil.parser</code>
<u>TOOLS-429</u>	Bundle and upload broken
<u>TOOLS-428</u>	Delete bundle with bucket and prefix is broken
<u>TOOLS-427</u>	Update <code>euca-bundle-vol</code>
<u>TOOLS-425</u>	<code>euca-bundle-and-upload</code> fails on linux
<u>TOOLS-476</u>	Registering kernel/ramdisk with <code>euca-install-image</code> fails with ' <code>MissingParameter</code> '
<u>TOOLS-471</u>	parse error on import instance response
<u>TOOLS-470</u>	Add <code>install-image</code> script that allows single command for <code>bundle/upload/register</code>

Issue	Description
<u>TOOLS-394</u>	euca-describe-images shows account ID instead of bucket name for instance-store backed images
<u>TOOLS-371</u>	Write an S3 QSA URL generator
<u>TOOLS-368</u>	Write euca-resume-import
<u>TOOLS-367</u>	Write euca-import-volume
<u>TOOLS-365</u>	Write euca-import-instance
<u>TOOLS-479</u>	-I and -S not working for all of the bundle commands
<u>TOOLS-473</u>	EC2 describe instances requestor-id filter should be requester-id
<u>TOOLS-467</u>	Add a eucalyptus-specific key pair option to euca-import-instance
<u>TOOLS-458</u>	eulb-create-lb doesn't support lowercase protocol names
<u>TOOLS-459</u>	--s3-url is ignored by euca-import-volume
<u>TOOLS-454</u>	Update default euca2ools.ini with a current list of endpoints
<u>TOOLS-456</u>	Add euscale-describe-account-limits for Eucalyptus/AWS AutoScaling
<u>TOOLS-410</u>	euare-servercertupload --certificate-chain-file option
<u>TOOLS-407</u>	euca-get-console-output fails if output not to a console [error: decode() argument 1 must be string, not None]
<u>TOOLS-408</u>	Create unbundle stream command
<u>TOOLS-451</u>	implement euca-reset-instance-attribute
<u>TOOLS-430</u>	Write role/instanceprofile CRUD commands
<u>TOOLS-423</u>	Remove eustore commands in their current form
<u>TOOLS-452</u>	euare-servercertupload should not require a certificate chain
<u>TOOLS-426</u>	Filter options should allow for wildcards
<u>TOOLS-416</u>	Add upload policy support to bundle-uploading code
<u>TOOLS-415</u>	Build a combined bundle-and-upload-image command
<u>TOOLS-400</u>	eulb-set-lb-policies-of-listener should always add PolicyNames in the request.
<u>TOOLS-399</u>	Add euca-register --platform
<u>TOOLS-397</u>	euwatch-describe-alarms should output alarm ARN when showing details
<u>TOOLS-393</u>	Remove default-region from default euca2ools.ini
<u>TOOLS-392</u>	Ephemeral block device mappings are displayed incorrectly
<u>TOOLS-389</u>	euca-get-console-output error after instance launch

Issue	Description
<u>TOOLS-390</u>	euca-describe-images does not show "name" value
<u>TOOLS-388</u>	Amazon VPC support
<u>TOOLS-377</u>	euca-modify-instance-attribute is missing
<u>TOOLS-379</u>	Behavior regarding deleting bundle using --clear against empty bucket doesn't match AWS
<u>TOOLS-370</u>	Add pipe I/O and file extent support to S3 back end
<u>TOOLS-366</u>	Write import manifest generator
<u>TOOLS-364</u>	Implement client side for ImportInstance/ImportVolume
<u>TOOLS-330</u>	euca-register-snapshot now requires --root-device-name. Did not used to.
<u>TOOLS-464</u>	euca-describe-tags shows resource ID before resource type
<u>TOOLS-463</u>	Instance profile created even if role does not exist
<u>TOOLS-424</u>	Implement ec2-fingerprint-key
<u>TOOLS-396</u>	euare-userlistpolicies with --pretty-print option fails
<u>TOOLS-477</u>	euca-bundle-instance doesn't return manifest path for easy registration of image
<u>TOOLS-312</u>	S3 redirects are signed incorrectly after following redirects to endpoints whose DNS names contain bucket names
<u>TOOLS-404</u>	Use /etc/services to make specifying port numbers easier
<u>TOOLS-339</u>	support case insensitive protocol names for eulb-configure-healthcheck
<u>TOOLS-3</u>	Bundle vol distro specific support

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.1.0. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
euca-upload-bundle fails to handle error response from Walrus if S3_URL is incorrect (<u>TOOLS-480</u>)	If you use a /services/Walrus URL against eucalyptus 4.0 it will not handle redirects correctly. WORKAROUND: workaround is to change it to the correct URL for 4.0: /services/objectstorage.
Bundles generated by euca-bundle-image don't work with EC2 (<u>TOOLS-294</u>)	The euca-bundle-image command generates manifests that EC2 refuses to register, throwing an "Invalid AMI manifest" error. WORKAROUND: Use the ec2-bundle-image tool.

3.0.5

This section contains release notes for Euca2ools version 3.0.5.

Euca2ools 3.0.5 is the last planned release of Euca2ools 3.0.

What's New?

Euca2ools 3.0.5 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.0.5 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-294</u>	Bundles generated by euca-bundle-image now work with EC2.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.0.5. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-385</u>	Some euca2ools commands may fail when used to work with resources that use non-ASCII characters.
<u>TOOLS-514</u>	HTTPS certificate validation cannot be disabled. Either use plain HTTP or ensure your cloud uses a certificate that was signed by a certificate authority the client trusts.

3.0.4

This section contains release notes for Euca2ools version 3.0.4.

What's New?

Euca2ools 3.0.4 is a maintenance release that adds no new features.

Resolved Issues

Euca2ools 3.0.4 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-447</u>	HTTP_PROXY and HTTPS_PROXY are now handled correctly for commands that begin with "euca." Version 0.1.1 of the requestbuilder library, which ships alongside euca2ools 3.0.4, fixes them for other commands.
<u>TOOLS-486</u>	euare-userdelcert and euare-userdelkey no longer require -u/--user. When that option is omitted they will act upon the user that the command is running as.
<u>TOOLS-490</u>	euca-describe-instances's "block-device-mapping.delete-on-termination" filter now passes its inputs to the server using lowercase.
<u>TOOLS-494</u>	euca-describe-snapshot-attribute and euca-reset-snapshot-attribute were missing from previous releases. This has been fixed.
<u>TOOLS-500</u>	euca-describe-groups now accepts an "ip-permission.group-id" filter.
<u>TOOLS-501</u>	euca-authorize's -s/--cidr option now works with the --egress option.
<u>TOOLS-513</u>	euare-usercreatecert no longer requires -u/--user. When that option is omitted it will act upon the user that the command is running as.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.0.4. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
Cert validation cannot be disabled when using requests < 1.2.0 (<u>TOOLS-480</u>)	Please see the linked bug for more information.

3.0.2

This section contains release notes for Euca2ools version 3.0.2.

What's New?

Euca2ools 3.0.2 is a maintenance release and does not introduce new features.

Resolved Issues

Euca2ools 3.0.2 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-386</u>	Make eustore-install-image replace . characters in image names with _ characters
<u>TOOLS-387</u>	eustore registers multiple images with the same image name
<u>TOOLS-381</u>	euca-bundle-vol fails with "TypeError: _make_filesystem() got an unexpected keyword argument 'type'"

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.0.2. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
Euca2ools crashes when non-ASCII character is passed (<u>TOOLS-385</u>)	Occurs when the locale settings prevent python from encoding all of the characters in a command's output. Work around this by explicitly setting the LC_CTYPE environment variable to a locale that is capable of handling the characters in use, such as en_US.UTF-8.

3.0.0

This section contains release notes for Euca2ools version 3.0.0.

What's New?

Euca2ools 3.0.0 has the following new features.

Feature	Description
Triangle services commands added	This release adds command line tools for CloudWatch, Auto Scaling, and Load Balancing.
Configuration files	Euca2ools now supports configuration files that make it easy to switch credentials and services at the command line. See "Working with Euca2ools Configuration Files" in the Euca2ools 3.0.0 Reference Guide for more information.
New API version for EC2 commands	All EC2 commands are now using API version 2013-02-01
Friendly error feedback	Error output has been updated to make it more helpful and prescriptive.
Support for tagging and filtering	This release offers full support for EC2's resource tags and filters using the <code>--filter</code> parameter.

Resolved Issues

Euca2ools 3.0.0 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-273</u>	euca-bundle-vol should not require access keys
<u>TOOLS-270</u>	euca-get-password with an invalid pk returns a confusing error message
<u>TOOLS-186</u>	euca-describe-instances doesn't show block device or volume information for BFEBS-backed instances
<u>TOOLS-185</u>	Multiple block device mappings for the same device are silently dropped
<u>TOOLS-177</u>	eustore-install-image -- BotoClientError: Bucket names cannot contain upper-case characters
<u>TOOLS-174</u>	Prevent boto 2.6 from validating server certs by default
<u>TOOLS-173</u>	Multiple filter values are ignored (--filter option)
<u>TOOLS-170</u>	generated man page for euca-run-instances has incorrect long-option --instance-count

Issue	Description
<u>TOOLS-150</u>	Unclear error message when running eustore-install-image
<u>TOOLS-134</u>	Please implement --instance-initiated-shutdown-behavior
<u>TOOLS-88</u>	euca-bundle-vol does not request for architecture as ec2-bundle-vol does.
<u>TOOLS-81</u>	euca-delete-bundle should explicitly say when the given manifest doesn't exist
<u>TOOLS-55</u>	euca-register-image always displays i386 as an architecture if the -a option is specified.

Known Issues

The following table lists behavioral changes and known issues that exist in Euca2ools 3.0.0. Please contact Eucalyptus support for workarounds or prescriptive guidance for these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
New behavior: the euca-register command now requires a name parameter (<u>TOOLS-298</u>)	The euca-register command now requires a name parameter using the -n/--name argument.
Bundles generated by euca-bundle-image don't work with EC2 (<u>TOOLS-294</u>)	Use EC2 tools to bundle the image for compatibility.
New behavior: we are no longer using M2Crypto (<u>TOOLS-160</u>)	euca2ools no longer uses the M2Crypto library.
euca-bundle-vol rsync crosses filesystems (<u>TOOLS-105</u>)	The euca-bundle-vol command will sync all mounted filesystems.
Format for account/user/group listing is inconsistent (<u>TOOLS-79</u>)	The format used when listing accounts and users differs from the format used for groups.
Euca2ools configuration sources prioritization (<u>TOOLS-44</u>)	Euca2ools now choose configuration sources with this priority: 1. Command line argument 2. File in the user's home dir (~/.eucarc) 3. Systemwide config file (/etc/euca2ools/eucarc) 4. Environment variables Please see 'Environment Variables Order of Precedence' in the 'Configuring Euca2ools' section of the Euca2ools 3.0.0 Reference Guide for more information.

2.1.3

This section contains release notes for Euca2ools version 2.1.3.

What's New?

Euca2ools 2.1.3 is a maintenance release and does not introduce new features.

Resolved Issues

Euca2ools 2.1.3 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-182</u>	euca-register request with both --snapshot and -b options tends to muck up the list of device mappings
<u>TOOLS-176</u>	euca-stop-instances does not return correct information
<u>TOOLS-175</u>	euca-start-instances does not return correct information
<u>TOOLS-171</u>	euca-reboot-instances output inconsistent with aws ec2-reboot-instances
<u>TOOLS-169</u>	euca-run-instances --help reports '--addressing' switch as deprecated
<u>TOOLS-109</u>	euca-terminate-instances does not return proper instance states

Known Issues

The following known issues exist in Euca2ools 2.1.3. Please contact Eucalyptus support for known workarounds to these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-160</u>	Stop using M2Crypto
<u>TOOLS-160</u>	Stop using M2Crypto
<u>TOOLS-150</u>	Unclear error message when running eustore-install-image
<u>TOOLS-147</u>	euca-upload-bundle doesn't report problem when named bucket isn't accessible
<u>TOOLS-140</u>	euca-create-snapshot output does not match ec2-create-snapshot
<u>TOOLS-105</u>	euca-bundle-vol rsync crosses filesystems

Issue	Description
<u>TOOLS-104</u>	euca-bundle-vol error diagnostics are unhelpful with invalid --block-device-mapping
<u>TOOLS-101</u>	euca-bundle-vol places filesystem in subdirectory
<u>TOOLS-98</u>	Documentation for --url flag is ambiguous
<u>TOOLS-97</u>	display_error_and_exit function incorrectly guesses XML format
<u>TOOLS-83</u>	euca-terminate-instances doesn't report error if the caller isn't allowed TerminateInstances
<u>TOOLS-81</u>	euca-delete-bundle should explicitly say when the given manifest doesn't exist
<u>TOOLS-79</u>	Format for account/user/group listing is inconsistent
<u>TOOLS-78</u>	euare-usercreate with "-k" fails when credentials are passed on the command line
<u>TOOLS-67</u>	euca-delete-bundle -m should not require a manifest file on the local machine.
<u>TOOLS-59</u>	euca-describe-security-groups doesn't show username when ingress from specific group is authorized
<u>TOOLS-55</u>	euca-register always sends an arch
<u>TOOLS-11</u>	permissions on manifest.xml files in /tmp are too permissive

2.1.2

This section contains release notes for Euca2ools version 2.1.2.

What's New?

Euca2ools 2.1.2 is a maintenance release and does not introduce new features.

Resolved Issues

Euca2ools 2.1.2 resolves issues listed in the following table.

Issue	Description
<u>TOOLS-159</u>	eustore-install-image requires kernel type to be specified when using existing kernel
<u>TOOLS-156</u>	euca-get-console-output text left at prompt
<u>TOOLS-155</u>	eustore-install-image leaves bundling files in tmp dir
<u>TOOLS-153</u>	eustore uses image name instead of ID when choosing existing eki/eri
<u>TOOLS-151</u>	Typo when ramdisk already exists
<u>TOOLS-146</u>	euca-bundle-image: global name 'sys' is not defined
<u>TOOLS-144</u>	enablemfadvice uses the wrong back end code
<u>TOOLS-143</u>	manual pages are installed with executable flag
<u>TOOLS-142</u>	Add support for Ubuntu image tarballs to eustore

Known Issues

The following known issues exist in Euca2ools 2.1.2. Please contact Eucalyptus support for known workarounds to these issues. You can use the support portal <https://support.eucalyptus.com> or email us directly at support@eucalyptus.com.

Issue	Description
<u>TOOLS-160</u>	Stop using M2Crypto
<u>TOOLS-150</u>	Unclear error message when running eustore-install-image
<u>TOOLS-147</u>	euca-upload-bundle doesn't report problem when named bucket isn't accessible
<u>TOOLS-140</u>	euca-create-snapshot output does not match ec2-create-snapshot
<u>TOOLS-105</u>	euca-bundle-vol rsync crosses filesystems

Issue	Description
<u>TOOLS-104</u>	euca-bundle-vol error diagnostics are unhelpful with invalid --block-device-mapping
<u>TOOLS-101</u>	euca-bundle-vol places filesystem in subdirectory
<u>TOOLS-98</u>	Documentation for --url flag is ambiguous
<u>TOOLS-97</u>	display_error_and_exit function incorrectly guesses XML format
<u>TOOLS-83</u>	euca-terminate-instances doesn't report error if the caller isn't allowed TerminateInstances
<u>TOOLS-81</u>	euca-delete-bundle should explicitly say when the given manifest doesn't exist
<u>TOOLS-79</u>	Format for account/user/group listing is inconsistent
<u>TOOLS-78</u>	euare-usercreate with "-k" fails when credentials are passed on the command line
<u>TOOLS-67</u>	euca-delete-bundle -m should not require a manifest file on the local machine.
<u>TOOLS-59</u>	euca-describe-security-groups doesn't show username when ingress from specific group is authorized
<u>TOOLS-55</u>	euca-register always sends an arch
<u>TOOLS-11</u>	permissions on manifest.xml files in /tmp are too permissive