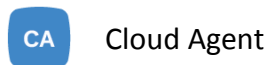


# Qualys Cloud Agent Linux 1.7.0

March 2018

We're excited to tell you about new features, platform coverage changes, improvements, and bug fixes in the Cloud Agent Linux 1.7.0 release. These updates are specific to the agent binary. Qualys Platform backend, UI, and API updates for new features and fixes of management and reporting capabilities of Cloud Agents are documented in the Cloud Suite release notes and may be released on a separate schedule.



## New Features

The following new features are available in this release:

- Support for Security Configuration Assessment (SCA) on supported operating systems
- Agent collects cloud provider instance identity and metadata from supported Linux operating systems when running in Amazon Web Services (AWS), Microsoft Azure, and Google Compute Platform
  - *Note: This feature is only available end-to-end when the required supporting backend features, including EC2 Connector asset merge and AssetView search tokens, are released in the Qualys Platform, targeting calendar mid-Q2 2018.*
  - Default behavior for this agent version at install/upgrade is to auto-detect (“auto”) what cloud provider environment the agent is running. Instructions to configure for a specific cloud provider or disable auto-detect are documented in the Linux Installation Guide.
  - A full list of instance identity and metadata collected are listed in the release notes appendix.

## Enhancements

The following enhancements are available in this release:

- Support for updated QID 370098 (“Amazon EC2 Instance Identity Metadata”) for any Linux operating system running in AWS EC2
  - Note: this is a separate capability from the cloud provider metadata that will be available in AssetView
- Compression for snapshot and delta uploads for Inventory, Vulnerability Management, and Policy Compliance modules before uploading to Qualys Platform
  - This is an always-on feature and is not user-configurable
  - Cloud Agent deployments can expect to see up to 4x reduction in data size uploaded from agent to the Qualys Platform reducing the bandwidth usage of enterprise networks

- For example, a 1 MB delta upload can be reduced to 250 KB at full compression. Actual data size may vary depending on network connectivity, delays, dropped packets, and other environmental variables

## Behavior Changes

The following enhancements are available in this release:

- Changed the order of startup and removed certain debug log statements for Ubuntu operating system
- Permissions for user/group changed by operating system to further limit non-privileged access to the agent directories (examples for qagentuser/qagentgroup when not running as root)
  - /usr/local/qualys/cloud-agent 750 700 qagentuser root
  - /etc/qualys/cloud-agent 750 700 qagentuser root
  - /var/log/qualys/cloud-agent NA 700 qagentuser root
  - /etc/qualys 755 770 root qagentgroup
  - /usr/local/qualys 755 770 root aagentgroup
  - /usr/local/qualys/hostid 664 660 root qagentgroup
  - /var/log/qualys 760 770 root qagentgroup
  - All dynamic files permissions depends on qagent user/group and umask values.
  - A different log file directory location can be defined in the configuration tool using the LogFileDir attribute. The directories other than /var/log/qualys for LogfileDir will have default permissions 700 and LogFileDir (other than default /var/log/qualys) and files under it.

## Platform Coverage Support (Operating Systems)

Added support for Amazon Linux 2.

## Fixed Defects

The following known reported and notable issues have been fixed in this release:

ID	Description
CRM-33478	Fixed an issue in 1.6.0.61 where agent does not activate due to Loopback not allowed
CRM-27915 CRM-29494	Fixed an intermittent issue where agent running in AWS does not resolve the name of the Qualys platform qagpublic endpoint (caused when AWS configuration dynamically changes /etc/resolv.conf after startup)
CRM-27487	QID 45038 Host Scan Time supported on Linux
CRM-21760	Fixed an issue where agent on Fedora 24 fails to start in certain cases
CRM-32770	Fixed a permission issue on RHEL7
CRM-29348	Fixed an issue where Uninstall Agent from Cloud Agent UI did not uninstall on Red Hat, CentOS, and Ubuntu in certain cases
LXAG-575 LXAG-589	Fixed various RPM relocation issues

LXAG-648	
LXAG-782	
LXAG-826	
LXAG-828	
LXAG-285	Fixed service list and BIOS information on Oracle Enterprise Linux 5.11
LXAG-793	Fixed an issue where uninstall did not remove /var/log/qualys on Ubuntu 12.04.5 LTS
LXAG-524	Fixed an issue where agent does not start on Ubuntu 12/14 after a certificate path error is corrected by the user
LXAG-811	Does not print "processed scan delta" log message when suspend scanning is enabled

### Known Limitations and Workarounds

The following notable known limitations are open in this release:

ID	Description
LXAG-1159	Uninstall fails on openSUSE in certain situations

## APPENDIX

The following cloud provider instance identity and metadata are collected in this release.

*Note: This feature is only available end-to-end when the required supporting backend features, including EC2 Connector asset merge and AssetView search tokens, are released in the Qualys Platform, targeting calendar mid-Q2 2018.*

### Amazon Web Services

accountId  
ami-id  
availability-zone  
instance-id  
instance-type  
kernel-id  
local-hostname  
local-ipv4  
network/interfaces/mac/mac/mac  
network/interfaces/mac/mac/subnet-id  
public-hostname  
public-ipv4  
region  
reservation-id  
security-groups  
security-groups-ids  
vpc-id

### Microsoft Azure

compute.location  
compute.name  
compute.offer  
compute.osType  
compute.publisher  
compute.resourceGroupName  
compute.subscriptionId  
compute.tags  
compute.version  
compute.vmlId  
compute.vmSize  
network.interface.ipv4.ipaddress.privateIpAddress  
network.interface.ipv4.ipaddress.publicIpAddress  
network.interface.ipv4.subnet.address  
network.interface.ipv6.ipaddress.ipAddress  
network.interface.macAddress

## Google Compute Platform

instance/hostname  
instance/id  
instance/machine-type  
instance/network-interfaces/  
instance/network-interfaces/0/access-configs/0/external-ip  
instance/network-interfaces/0/ip  
instance/network-interfaces/0/mac  
instance/network-interfaces/0/network  
instance/zone  
project/numeric-project-id  
project/project-id