Cloud Agent for Unix
Installation Guide
Agent Version 1.6 - 1.7, 2.3

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Preface

Welcome to Qualys Cloud Agent for Unix. This user guide describes how to install cloud agents on hosts in your network.

About Qualys

Qualys, Inc. (NASDAQ: QLYS) is a pioneer and leading provider of cloud-based security and compliance solutions. The Qualys Cloud Platform and its integrated apps help businesses simplify security operations and lower the cost of compliance by delivering critical security intelligence on demand and automating the full spectrum of auditing, compliance and protection for IT systems and web applications.

Founded in 1999, Qualys has established strategic partnerships with leading managed service providers and consulting organizations including Accenture, BT, Cognizant Technology Solutions, Deutsche Telekom, Fujitsu, HCL, HP Enterprise, IBM, Infosys, NTT, Optiv, SecureWorks, Tata Communications, Verizon and Wipro. The company is also a founding member of the Cloud Security Alliance (CSA). For more information, please visit www.qualys.com

Contact Qualys Support

Qualys is committed to providing you with the most thorough support. Through online documentation, telephone help, and direct email support, Qualys ensures that your questions will be answered in the fastest time possible. We support you 7 days a week, 24 hours a day. Access support information at www.qualys.com/support/.
Get Started

Thank you for your interest in Qualys Cloud Agent!

This document tells you all about installing Qualys Cloud Agent for Unix. We’ll tell you about Requirements, Installation Steps, Proxy Configuration, Anti-Virus and HIPS Exclusion / Whitelisting, how to use our Agent Configuration Tool, Best Practices and more.

Qualys Cloud Agent Introduction

Qualys Cloud Platform gives you everything you need to continuously secure all of your global IT assets. Now with Qualys Cloud Agent, there’s a revolutionary new way to help secure your network by installing lightweight cloud agents in minutes, on any host anywhere - server, virtual machine, laptop, desktop or cloud instance.

Get informed quickly on Qualys Cloud Agent (CA).

Video Tutorials

Cloud Agent Platform Introduction (2m 10s)
Getting Started Tutorial (4m 58s)

Cloud Agent Platform Availability for Unix

Refer to the Cloud Agent Getting Started Guide for information on supported operating systems and versions.

A few things to consider...

Cloud Agent requirements

- Your hosts must be able to reach your Qualys Cloud Platform (or the Qualys Private Cloud Platform) over HTTPS port 443. Log into the Qualys Cloud Platform and go to Help > About to see the URL your hosts need to access.

- To install Cloud Agent for Unix, you must have root privileges, non-root with Sudo root delegation, or non-root with sufficient privileges (VM license only). Proxy configuration is supported. Learn more

- Minimum 512 MB RAM system memory.
- Minimum 200 MB disk space.
What are the installation steps?

Our Cloud Agent UI walks you through the steps to install agents on your hosts. Once the agent is installed you will need to provision it using our agent configuration tool. You might want to configure proxy settings for our agent to communicate with our cloud platform.

Run as user and user’s default group

Typically, the agent installation requires root level access on the system (for example in order to access the RPM database). After the Cloud Agent has been installed it can be configured to run in a specific user and group context using our configuration tool. This ability limits the level of access of the Cloud Agent. Learn more

Need help with troubleshooting?

We recommend you inspect the agent’s log file located here:

/var/opt/qualys/qualys-cloud-agent.log

For agent version 1.6, the log file is located at /var/log/qualys/qualys-cloud-agent.log.

Learn more

Troubleshooting
Error messages
Credentials - what are my options?

Use an account with root privileges
This is recommended as it gives the Cloud Agent for Unix enough privileges to gather necessary information for the host system’s evaluation.

Use a non-root account with Sudo root delegation
Either the non-root user needs to have sudo privileges directly or through a group membership. Be sure NOPASSWD option is configured.

Here is an example of agentuser entry in sudoers file (where “agentuser” is the user name for the account you’ll use to install the Unix Agent):

```
%agentuser  ALL=(ALL)        NOPASSWD: ALL
```

Use non-root account with sufficient privileges
Specific privileges are needed to:

1) execute installation package for automatic update

2) agent requires certain commands to operate. If the log states command not allowed, add permission to that command.
Installation

It's easy to install Cloud Agent for Unix. We’ll walk you through the steps quickly.

Qualys provides installers and packages for each supported operating system that are coded for each Qualys platform. It’s not possible to connect an agent coded for one platform to another platform. Organizations can use their existing software distribution tools (SCCM, BigFix, rpm, Casper, etc.) to install the agent into target machines.

The platform supports detection of duplicate agent IDs and automatically re-provisions the duplicate agents.

Customers using software distribution tools must package the Qualys-provided installer along with the specific Activation Key and Customer ID strings to install properly. Do not package up the artifacts that are installed by the agent into your own installer as the installation environment is keyed for that specific machine when the agent is installed; doing so will create duplicates that the platform may not be able to easily de-duplicate.

Keep in mind - Depending on your environment, you might need to take steps to support communications between agent hosts on your network and the Qualys Cloud Platform.

Tips and best practices

How to download Agent installer

What you’ll need

Steps to install Agents on AIX

Proxy configuration

Anti-Virus and HIPS Exclusion / Whitelisting

Tips and best practices

What is an activation key? You’ll need an agent activation key to install agents. This provides a way to group agents and bind them to your subscription with Qualys Cloud Platform. You can create different keys for various business functions and users.

Benefits of adding asset tags to an activation key Tags assigned to your activation key will be automatically assigned to agent hosts. This helps you manage your agents and report on agent hosts.

Running the agent installer You’ll need to run the installer from an elevated command prompt, or use a systems management tool.

Be sure to activate agents to provision agents for modules - Vulnerability Management (VM), Policy Compliance (PC), or both. Activating an agent for a module consumes an agent license. You can set up auto activation by defining modules for activation keys, or do it manually in the Cloud Agent UI.
What happens if I skip activation? Agents will sync inventory information only to the cloud platform (IP address, OS, DNS and NetBIOS names, MAC address), host assessments will not be performed.

**How many agents can I install?** You can install any number of agents but can activate an agent only if you have a license. The Agents tab in the Cloud Agent UI tells you about your installed agents.

**Check to be sure agents are connected** Once installed agents connect to the Qualys Cloud Platform and provision themselves. You can see agent status on the Agents tab - this is updated continuously. If your agent doesn’t have a status, it has not successfully connected to the cloud platform and you need to troubleshoot.

### How to download Agent installer

#### Download an installer of Qualys Cloud Agent forUnix

Here’s how to download an installer from the Qualys Cloud Platform and get the associated Activation ID and Subscription ID.

Log into the Qualys Cloud Platform and select **CA** for the Cloud Agent module.

Choose an activation key (create one if needed) and select **Install Agent** from the Quick Actions menu.

Click **Install instructions** for the target host and then click **Download**.
Note that AIX should be enabled in your Qualys subscription for you to see it in this list.

What happens? The Agent installer is downloaded to your local system, and in the UI you’ll see the associated Activation key ID and Subscription ID - copy and paste this to a safe place, you’ll need it to complete the installation.

Installation steps

What you’ll need

To install cloud agents, you’ll need to download the Cloud Agent installer and get the associated Activation ID and Customer ID. Just log into the Qualys Cloud Platform, go to the Cloud Agent (CA) module, and follow the installation steps for AIX.

Cloud Agent requirements

Steps to install Agents on AIX

1) Copy the Qualys Cloud Agent installer (qualys-cloud-agent.aix_power_64.bff.gz) onto the target host.

2) Rename and extract the bff.gz file

   sudo gzip -fd qualys-cloud-agent.aix_power_64.bff.gz > qualys-cloud-agent.aix_power_64.bff

3) Install the Qualys Cloud Agent using the following commands:

   > sudo installp -acXd . qualys-cloud-agent.rte
   > sudo /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh
   ActivationId=xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx
   CustomerId=xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx

What happens next?

We’ll start syncing asset data to the cloud!
Once installed an agent connects to the Qualys Cloud Platform and provisions itself. We would expect you to see your first asset discovery results within a few minutes. The first assessment scan in the cloud takes some time, after that scans complete as soon as new host metadata is uploaded to the cloud platform.

**Troubleshooting**
You’ll find helpful information in Qualys online help.

Cloud agents installed on AIX may throw a file not found error for the certificate ca-bundle.crt when trying to communicate with the Qualys Platform. This happens when the certificate files are not present on the host asset or the certificate files are present at a non-default location. [Click here](#) for the solution to fix the issue.

**You might also be interested in...**
Proxy configuration
Anti-Virus and HIPS Exclusion / Whitelisting

**Proxy configuration**

**Good to Know** By default the Cloud Agent for Unix will operate in non-proxy mode. The agent can be configured to use an HTTPS proxy for internet access.

**What are my options?**
The agent can be configured to use an HTTPS proxy in one of these ways:

1) `/etc/environment`
2) `/etc/sysconfig/qualys-cloud-agent`

**Tell me the steps**
Here are the steps to enable the Unix agent to use a proxy for communication with our cloud platform:

1) if `/etc/environment` file doesn’t exist create it
2) add 1 of the following lines to the file (1 line only):

```bash
https_proxy=https://[<username>:<password>@]<host>[:<port>]
qualys_https_proxy=https://[<username>:<password>@]<host>[:<port>]
```
where <username> and <password> are specified if the https proxy uses authentication. If special characters are embedded in the username or password (e.g. @, :, $) they need to be url-encoded. where <host> is the proxy server’s IPv4 address or FQDN. where <port> is the proxy's port number.

If the proxy is specified with the https_proxy environment variable, it will be used for all commands performed by the Cloud Agent. If the proxy is specified with the qualys_https_proxy environment variable, it will only be used by the Cloud Agent to communicate with our cloud platform.

Note: You can use the Proxy Configuration Encryption Utility to encrypt the user name and password that you provide to the proxy environment variable.

3) restart qualys-cloud-agent service using the following command:

    /opt/qualys/cloud-agent/bin/qcagent.sh restart
Anti-Virus and HIPS Exclusion / Whitelisting

Have Anti-Virus or HIPS software installed? It's required that the following files, directories, and processes are excluded or whitelisted in all security software installed on the system in order to prevent conflicts with the Cloud Agent.

Directory list used by Cloud Agent installation

/etc/opt/qualys
/etc/opt/qualys/cloud-agent
/etc/opt/qualys/cloud-agent/cert
/etc/qualys
/opt/qualys
/opt/qualys/cloud-agent
/opt/qualys/cloud-agent/bin
/opt/qualys/cloud-agent/lib
/opt/qualys/cloud-agent/manifests
/opt/qualys/cloud-agent/setup
/usr/share/doc
/usr/share/doc/qualys-cloud-agent-<version>
/var/opt/qualys

For agent version 1.6, files listed under /etc/opt/qualys/ are available at /etc/qualys/, and log files are available at /var/log/qualys.

Agent daemon process “qualys-cloud-agent”

The agent runs as daemon process “qualys-cloud-agent”.

The agent runs various read-only commands during the scanning process. These are the same commands run by a scan using a scanner appliance. Click here to learn more.

Some transient files are created during agent execution

/opt/qualys/cloud-agent/Config.db
- this is the current agent configuration

/opt/qualys/cloud-agent/manifests/*.db
- this contains manifests used during agent based scans
Configuration Tool

The Agent Configuration Tool gives you many options for configuring Cloud Agent for Unix after installation. You’ll find this tool at /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh.

Our configuration tool allows you to:

- Provision agents
- Configure logging - set a custom log level and log file path
- Enable Sudo to run all data collection commands
- Configure the daemon to run as a specific user and/or group
- Change the ActivationID, CustomerID and/or platform configuration

The Agent will automatically pick up changes made through the configuration tool so there is no need to restart the agent or reboot the agent host.

Command line options

qualys-cloud-agent.sh supports these command line options.

<table>
<thead>
<tr>
<th>Configuration option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ActivationId</td>
<td>A valid activation key ID (UUID). This value is obtained from the Cloud Agent UI (go to Activation Keys, select a key then View Key Info). This parameter is required to provision an agent.</td>
</tr>
<tr>
<td>CustomerId</td>
<td>A valid customer ID (UUID). This value is obtained from the Cloud Agent UI (go to Activation Keys, select a key then Install Agent). This parameter is required to provision an agent.</td>
</tr>
<tr>
<td>LogLevel</td>
<td>A log level (0-5). A higher value corresponds to more verbosity. Default is to report only errors (0).</td>
</tr>
<tr>
<td>LogFileDir</td>
<td>A full path to the log file. By default the path is /var/opt/qualys/. For agent version 1.6, the path is /var/log/qualys.</td>
</tr>
<tr>
<td>UseSudo</td>
<td>Set to 1 to run all data collection commands using the sudo escalation method. By default sudo is not used (0).</td>
</tr>
<tr>
<td>SudoCommand</td>
<td>A command for privilege escalation such as SudoCommand pbrun. If the command has spaces it must be double quoted.</td>
</tr>
<tr>
<td>User</td>
<td>A valid username if you want the daemon to run as a certain user. The daemon will start as root but will drop to the specified user, and continue running as the specified user.</td>
</tr>
</tbody>
</table>
### Use cases

#### Example 1 – Provision Agent

The following example shows how to provision Qualys Cloud Agent. Please note that this method of activation will assume that root user should be used by the agent.

```
$ /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh
ActivationId="022224c8-31c7-11e5-b4f7-0021ccba987e"
CustomerId="146556fa-31c7-11e5-87b6-0021ccba987e"
```
Example 2 – Use non-root account

The following example shows how to configure Qualys Cloud Agent to use a non-root account for running data collection commands.

```
$ /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh
ActivationId="022224c8-31c7-11e5-b4f7-0021ccba987e"
CustomerId="146556fa-31c7-11e5-87b6-0021ccba987e" UseSudo=1
User=scanuser
Group=wheel
```

Keep in mind - A new group needs to exist when the configuration command runs. The expectation is that the non-root user will be added to the specified group to allow it to access binary and temporary files that comprise Qualys Cloud Agent. In order to perform unattended data collection the non-root user needs to have sudo privilege without a password.

Example 3 – Raise logging level

It is also possible to instruct Qualys Cloud Agent to log events at a higher than normal logging level using the following command:

```
$ /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh LogLevel=4
```

Note we’ve omitted the ActivationID and CustomerID parameters to illustrate the configuration tool can be used to adjust the log level after provisioning.
Best Practices

Here are some best practices for managing your cloud agents. Refer to the Cloud Agent Technical Whitepaper for additional documentation and best practices.

Upgrading Cloud Agent

The Qualys Cloud Platform can be used to upgrade agents to newer available versions when agents check into the platform, depending on the settings in the Configuration Profile.

Software distribution tools can package the Cloud Agent installer of a newer version to upgrade already installed agents. In those cases the agents are not configured to auto-upgrade versions.

Uninstalling Cloud Agent

Uninstalling the agent from the Cloud Agent module UI or API

When you uninstall a cloud agent using the Cloud Agent module user interface or Cloud Agent API, the agent and license is removed from the Qualys subscription. We’ll also purge the associated agent host record and scan results for any licensed modules, i.e. Vulnerability Management, Policy Compliance.

Uninstalling the agent from the host itself

When you uninstall a cloud agent from the host itself (using the uninstall utility), the agent record, its license usage, and scan results are still present in the Qualys subscription. In order to remove the agent’s host record, license, and scan results use the Cloud Agent module user interface or Cloud Agent API to uninstall the agent.

Sample uninstall command

installp -u qualys-cloud-agent.rte

Uninstall command for agent version 1.6:

sudo rpm -e qualys-cloud-agent

Agentless Tracking and Cloud Agents

Say you’re already using Agentless Tracking on hosts and now you’re ready to install Cloud Agent on the same hosts. You’ll want to use the same host ID tag installed on the host. This will help you to avoid duplicate assets for the same host in your account.

You can configure the location of the host ID file installed on your Unix hosts with the recommended default of /etc (the agent will create/use a 'qualys' directory under /etc). This is recommended best practice if you are interested in using Unix Agent and Agentless Tracking to evaluate the same host.
Once configured, the same file with the same host ID tag is accessed by our service when the host is evaluated using 1) Agentless Tracking AND 2) Cloud Agent.

**What are the steps?**

1) Check your Unix authentication record

This is the record you’re using to access the system using Agentless Tracking. You’ll see the location of the host ID file configured for the authentication record.

Want help with Agentless Tracking? Log into the Qualys Cloud Platform, go to Help > Contact Support and search for Agentless Tracking.

2) Install the Agent

Use the agent configuration tool (qualys-cloud-agent.sh) and the HostIdSearchDir option to install the Unix Agent and configure the location of the host ID file. Be sure this location matches the location defined in your authentication record. By default HostIdSearchDir is set to /etc/. To stay consistent with the Agentless Tracking location Qualys appends “/qualys/hostid” to the path provided.

Example - Install as root user and set host ID file to /mydir/qualys/hostid

```bash
$ /opt/qualys/cloud-agent/bin/qualys-cloud-agent.sh
ActivationId="022224c8-31c7-11e5-b4f7-0021ccba987e"
CustomerId="146556fa-31c7-11e5-87b6-0021ccba987e"
HostIdSearchDir="/mydir/"
```
Known issues

Here are some known issues/limitations in the cloud agents.

Error seen in log file during selfpatch to 1.7.3

You may see the following error in the agent log file /var/log/qualys/qualys-cloud-agent.log, while the agent upgrades to version 1.7.3 through selfpatch.

2018-08-06 05:27:19.696 [qualys-cloud-agent][8847452]:[Information]:Next event: INTERVAL_EVENT_EXECUTE_SETUP, time left: 0 seconds

No action is needed. After a couple of such events, the agent eventually upgrades to version 1.7.3 successfully and starts sending events to the Qualys Cloud Platform.

Note: After the agent is upgraded through selfpatch, the log file is available at /var/opt/qualys/qualys-cloud-agent.log.

File not found error for ca-bundle.crt

You may see the following error in the agent log file /var/log/qualys/qualys-cloud-agent.log, while the agent upgrades from rpm (release 1.6.2-34) to lpp.

2019-03-12 01:32:30.973 [qualys-cloud-agent][9175068]:[Information]:Init config file path:/etc/opt/qualys/cloud-agent/qualys-cloud-agent.conf
2019-03-12 01:32:30.974 [qualys-cloud-agent][9175068]:[Information]:Cloud agent version: 2.3.1-20, platform: AIX
...
2019-03-12 01:32:31.035 [qualys-cloud-agent][9175068]:[Information]:Loaded manifest: 8058a702-3c79-4cf3-9c40-a654654e3761
2019-03-12 01:32:31.408 [qualys-cloud-agent][9175068]:[Information]:Manifest type: VMPC
2019-03-12 01:32:31.415 [qualys-cloud-agent][9175068]:[Information]:Connection timeout: 60 seconds, Request timeout: 600 seconds
2019-03-12 01:32:31.420 [qualys-cloud-agent][9175068]:[Information]:Cert
Known issues
File not found error for ca-bundle.crt

OS: AIX, CA path:/etc/opt/qualys/cloud-agent/ca-bundle.crt


This error may occur if the certificate file ca-bundle.crt is located in one of the “qualys” folders such as /var/opt/qualys, /etc/opt/qualys, /opt/qualys, etc

It is recommend not to place the ca-bundle.crt file in any of the “qualys” folders.

You can place the ca-bundle.crt file at any place other than the "qualys" folders and then provide the file path in the /etc/qualys/cloud-agent/qagent.config file in the following manner:

```json
{
    "os": "AIX",
    "cafile": "<CustomizedPath>"
}
```

Now restart the QAgent Service.
Certificate Support on AIX

Cloud agent installed on AIX may throw the following error for the certificate ca-bundle.crt when trying to communicate with the Qualys Platform. This happens when the certificate files are not present on the host asset or the certificate files are present at a non-default location.

```
2017-09-26 06:45:09.499 [qualys-cloud-agent][28901532]:[Information]:Cert OS: AIX, CA path:/var/ssl/certs/ca-bundle.crt
```

To fix this issue, you must manually install the certificate files in the appropriate location on the host asset. You can either use the certificate files from your existing RHEL or CentOS assets or download the certificate files from the following location:

https://curl.haxx.se/docs/caextract.html

Copy the certificate file as ca-bundle.crt at the following default location on AIX:

```
/var/ssl/certs/
```

If you want to use a non default location, ensure that the directory path is added in the /etc/opt/qualys/cloud-agent/qagent.config file in the following manner:

```json
{
    "os": "AIX",
    "cafile": "<CustomizedPath>"
}
```

For agent version 1.6, the qagent.config file is located at /etc/qualys/cloud-agent/qagent.config.

Now restart the QA Belfast.
Proxy Configuration Encryption Utility

You can use the Proxy Configuration Encryption utility to encrypt the user name and/or password (as needed) that you provide to the proxy environment variable qualys_https_proxy or https_proxy.

The string-util utility is included in the Cloud Agent installation package. Install or extract the Cloud Agent installation package to get the utility.

The string-util utility is to be used once on any system where it’s installed to encrypt the values that will be used on all systems running Cloud Agent that have the same credentials. It is not required to run the utility on each system running Cloud Agent.

To use the encryption utility:

Go to /opt/qualys/cloud-agent/bin, and then export the LIBPATH variable to /opt/qualys/cloud-agent/lib.

```bash
export LIBPATH=/opt/qualys/cloud-agent/lib
```

Use the following command to run the utility to encrypt the user name and/or password. If you want to encrypt both, run the utility twice to separately encrypt the user name and password.

Note: You need root privileges to run string-util. If the user name or password contain special characters (e.g., @, :, $) they need to be url-encoded prior to using the utility.

To encrypt the user name (use double quotes):

```bash
./string-util "<user name_to_be_encrypted>"
```

For example,

```bash
./string-util "sys_account"
```

To encrypt the password (use double quotes):

```bash
./string-util "<password_to_be_encrypted>"
```

The utility returns the user name or password in encoded format.

For example,

sRpSHQP582a1+gaJwHOM3g==

Once you get the encrypted user name add/or password, unset the LIBPATH variable by using the following command:

```bash
export LIBPATH=
```
Provide the encrypted user name and password to your proxy environment variable.

qualys_https_proxy=https://[<#encrypted_username>:<#encrypted_password>@]@<host>[:<port>]

The # delimiter indicates to the Cloud Agent that the user name and password are encrypted. Not including the # indicates that the user name and password are in plain text format.

For example (only encrypting password):

qualys_https_proxy=https://sys_account:#sRpSHQP582a1+gaJwH0m3g==@proxy.myco.com:8080

For example (encrypting username and password):

qualys_https_proxy=https://#uWpsHMSY932b2+fdcH723d==:#sRpSHQP582a1+gaJwH0m3g==@proxy.myco.com:8080