



Qualys Cloud Platform (VM, PC) v10.x

Release Notes

Version 10.5

November 5, 2020 (Updated November 18, 2020)

This new release of the Qualys Cloud Platform (VM, PC) includes improvements to Vulnerability Management and Policy Compliance.

Qualys Policy Compliance (PC/SCAP/SCA)

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Qualys 10.5 brings you more improvements and updates! [Learn more](#)

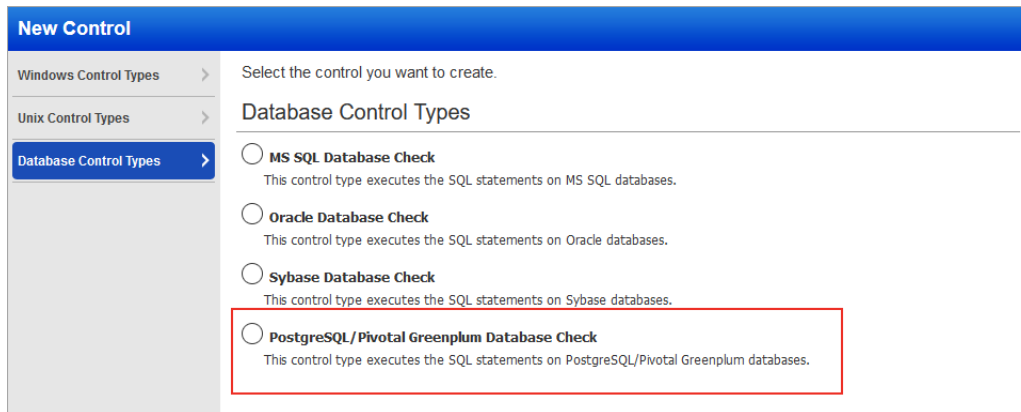
Qualys Policy Compliance (PC/SCAP/SCA)

PostgreSQL/Pivotal Greenplum Database User-Defined Control Support

You can now use PostgreSQL/Pivotal Greenplum database user-defined controls to create custom checks by executing SQL statements on databases. These controls can then be used to generate policy reports on your databases. We're already supporting MS SQL, Oracle, and Sybase databases. Follow the steps below to create a PostgreSQL/Pivotal Greenplum database control and generate a report.

Step 1 - Add database controls

On the Qualys Cloud Platform, from the module picker, select Policy Compliance and then go to **Policies > Controls > New > Control**. Click the **Database Control Types** tab and then, click **PostgreSQL/Pivotal Greenplum Database Check**.



In each control, you'll define the SQL statement that you want to execute on your database.

Note - Only SELECT statements are supported for the database controls. For example, you can use the following SQL statement to list all fields from "Customers" where country is "Germany" AND city is "Berlin":

```
SELECT * FROM Customers WHERE Country='Germany' AND City='Berlin'
```

See the Help for sample queries and results.

Step 2 - Add database controls to a policy

Create a new compliance policy or edit an existing policy, and add your database controls to the policy. Make sure your policy has the database technologies selected in the control.

Step 3 - Launch a compliance scan

Launch a compliance scan on the host running the PostgreSQL/Pivotal Greenplum database.

You can edit the compliance option profile that you use for the scan to set the maximum number of rows you want the check to return. By default, we return up to 256 rows for a PostgreSQL/Pivotal Greenplum Database Check. To edit this limit, select the database control type in the compliance option profile and set a new value. The maximum value that you can set for a PostgreSQL/Pivotal Greenplum check is 5000 rows.

Database Control Types

These settings apply to user-defined database controls. By default, we'll return up to 5000 rows for Oracle and up to 256 rows for all other control types. Select the control type to edit the limit.

Mssql Database Check

Set a limit on the number of rows to be returned per scan for custom MS SQL Database checks (default is 256).

Max rows to return: limit (1-256)

Oracle Database Check

Set a limit on the number of rows to be returned per scan for custom Oracle checks (default is 5000).

Max rows to return: limit (1-5000)

Sybase Database Check

Set a limit on the number of rows to be returned per scan for custom Sybase Database checks (default is 256).

Max rows to return: limit (1-2500)

PostgreSQL/Pivotal Greenplum Database Check

Set a limit on the number of rows to be returned per scan for custom PostgreSQL/Pivotal Greenplum Database checks (default is 256).

Max rows to return: limit (1-5000)

Step 4 - Return to your policy to set control criteria

Edit your compliance policy by using the policy editor to see the actual data returned by your scan. Select a column and define the expected value. This is how you set the criteria that will determine pass/fail status for the control.

Pivotal Greenplum 5.x

PostgreSQL Database Check control-2 Rationale

Desc

Set status to PASS if no data found

Column Filters

Criteria 1

Column name	Data-type	Operator	Operator Criteria	Expected Values
<input type="text" value="name"/>	<input type="text" value="List String"/>	<input type="text" value="regular expression list"/>	<input type="text" value="matches"/>	<input type="text" value="*"/>

[Add another column](#)

Click **Add another column** to add more criteria. You can add up to 5 criteria, i.e. Criteria 1, Criteria 2, Criteria 3 and so on.

You can choose AND or OR between each criteria. If you choose AND then both criteria must match to Pass. If you choose OR then at least one criteria must match to Pass. Click **Test Control** to verify the criteria you set. Then save your policy.

Step 5 - Run a report

You'll see PASS or FAIL status in your report like you do with any control. If the columns returned by the most recent scan are different than previous scans then you'll want to edit your policy to modify the criteria selected for the control. Here's a sample report where the expected value matches the actual value, resulting in a status of Passed.

(1.1) 101341 PostgreSQL Database Check control -2_um(PostgreSQL 11.x (Port: 5432, Database: postgres)) **Passed** **SERIOUS**

Instance PostgreSQL 11.x (Port: 5432, Database: postgres)
Previous Status Passed
Evaluation Date 10/22/2020 at 11:18:28 (GMT)
First Fail Date N/A
Last Fail Date N/A
First Pass Date 10/19/2020 at 12:57:40 (GMT)
Last Pass Date 10/22/2020 at 11:18:28 (GMT)

PostgreSQL Database Check control-2 Rationale

Desc

Scan Parameters:
DBQUERY: select name, setting from pg_catalog.pg_settings where name='log_min_duration_statement';

Expected matches regular expression list
DB Column Name: name
.*
OR, any of the selected values below:
 Set status to PASS if no data found

Actual Last Updated:10/22/2020 at 10:39:14 (GMT)

name	setting
log_min_duration_statement	-1

Multiline Regex Supported in Unix File Content Check UDC (Agent Only)

We've enhanced the Unix File Content Check UDC to support multiline regex matching. This allows you to create a single UDC that checks for multiple values in a Unix file, and saves you from having to create several, separate UDCs to achieve the same goal. Multiline regex is supported by agent scans only, using Linux or AIX Cloud Agent 2.5.x or later.

Agent vs. Scanner

You can get varying results between the scanner and agent when scanning the same UDC on the same host. The agent supports regex match on both single line and multiline text, and returns the matching text. The scanner supports single line regex match, and returns the entire line.

If the Unix File Content Check UDC is configured with multiline regex and you scan the UDC using a scanner, the results will be empty. If the expected value is an empty value, then the control will Pass. If the expected value is something else, then the control will Fail. To get the same results between the scanner and agent, configure the UDC to use single line regex.

New data type

When you create or edit a Unix File Content Check UDC, you'll see the new data type "String List" under Scan Parameters. The data type "Line List" is also still supported. The data type you pick will determine which operators show up in the **Control Technologies** section.

To create a new Unix File Content Check, go to **Policies > Controls > New > Control**. Then choose **Unix Control Types**, and pick **File Content Check**. Go to the **Scan Parameters** section to tell us the file you want to evaluate and the content you want to look for in the Unix file. You'll do this by entering the regex value(s) you want to match in the **Regular expression** field.

In the following example, a multiline regex is entered. This control will check for admin, registry, abc and xyz values in the file called "my-unix-file".

Scan Parameters*

The scan parameters, or data point, indicate what location, file, or setting for the scan to check.

Note - When scanning the same host using the scanner and the agent, you might get different results.
The agent supports regex match on single line and multiline text, and returns the matching text. The scanner supports single line regex match, and returns the entire line. To get the same results, configure the regular expression to use single line regex match.

File path: *

e.g. /etc/profile

Regular expression: *

e.g. ^Jun
admin.*|registry.*|abc.*|xyz.* (multiline, agent only)

Data Type: *

Line List
Line List
String List

Description: *

The String List data type supports operators "regular expression list" and "string list". You'll pick the **Operator** in the **Control Technologies** section when setting the expected value for this control for different technologies.

Control Technologies*

AIX 5.x
Use this section to create a AIX 5.x instance of this control.

Rationale: *

Cardinality: *

contains

 Lock Cardinality

Operator: *

regular expression list
regular expression list
string list

 Lock Operator

Default Value: Lock Value

Remediation:

Support for New OCA Technologies

We now support the following new technologies on assets for which data is collected using **Out-of-Band Configuration Assessment (OCA)** tracking.

- **Aruba ClearPass Policy Manager (CPPM) 6.x**
- **Extreme Networks VOSS 6.x, 7.x, 8.x**
- **Microsemi SyncServer 3.x**
- **Extreme Networks BOSS 5.x**
- **Cisco IOS 12.x and 15.x**

Using the **OCA** module, upload the corresponding configuration or command output for the assets. Then navigate to **Policy Compliance > Reports** tab to run the **Policy Compliance Report** for these technologies to view the compliance posture.

Support for OS Authentication-Based Technology CITRIX XenApp/XenDesktop 7.x (Windows)

We've expanded our support of OS authentication-based technologies to include '**CITRIX XenApp/XenDesktop 7.x**'. For these technologies, you can collect technology data and scan it for middleware compliance assessment using the underlying OS technology (in this case Windows) without the need to create authentication records.

The **CITRIX XenApp/XenDesktop 7.x** technology is now available for inclusion in your compliance policies and when searching controls. You'll also see **CITRIX XenApp/XenDesktop 7.x** host instance information in policy compliance authentication reports, scan results, and policy reports.

Policy Editor

You can select the **CITRIX XenApp/XenDesktop 7.x** technology for your compliance policies.

The screenshot shows the 'Create a New Policy' interface. At the top, there is a blue header with the text 'Create a New Policy'. Below the header, there is a section titled 'Empty Policy: Build your policy from scratch.' with a sub-section 'Select technologies for your policy. Your selection makes up the global technologies list for the policy and determines which controls can be added to the policy. Note - You can change the technologies at any time from within the Policy Editor.' Below this, there is a 'Technologies' section with the instruction 'Select at least one technology.' and a 'REQUIRED' label. A search bar is present with the text 'Search technologies:' and a dropdown arrow. Below the search bar, there is a list of technologies: '260 technologies', 'Add all shown', 'Cisco UCS Manager 2.x', 'Cisco WLC 8.x', 'Citrix NetScaler', 'Citrix XenApp/XenDesktop 7.x' (highlighted with a red box), 'Comware 5', 'Comware 7', and 'Data Domain OS 5.x'. At the bottom of the interface, there are 'Back' and 'Next' buttons, and a 'Choose Source' label.

Search Controls

You'll also see Microsoft Edge Chromium when searching controls. Go to **Policies > Controls > Search** and select **CITRIX XenApp/XenDesktop 7.x** in the list of **Technologies**.

Search

CIDs:
Example: 1072,1071,1091 (up to 20)

Text:

Status: Deprecated

Technologies:

- Cisco UCS Manager 2.x
- Cisco WLC 8.x
- Citrix NetScaler
- Citrix XenApp/XenDesktop 7.x
- Comware 5
- Comware 7

Frameworks:

- ANSSI 40 Essential Measures for a Healthy Network Ver 1
- APRA Prudential Practice Guide (PPG): CPG 234 - Manage
- CCI List 1
- CIS - Apache HTTP Server 2.2 Benchmark v3.4.0 (09-23-2014)

Framework ID:

Search

Authentication Reports

To display all OS auth-based instance technologies per host in your authentication report, go to **Reports > Compliance Report > Authentication Report** and enable the **OS Authentication-based Technology** option under the Appendix.

New Authentication Report

Use the following form to create a new authentication report on compliance data.

Report Details

Title:

Report Format: *

Report Source*

Select at least one business unit, asset group, IP or asset tag to draw data from.

Business Units Asset Groups IPs Asset Tags

Display & Filter

Select the items you want to show in your report.

Details

- Summary Section
- Details Section
- Additional Host Info (OS, scan date, successful auth date)

Appendix

- OS Authentication-based Technology

Report Options

- Scheduling

Scroll down to the **Appendix** section of your report to see **Targets with OS authentication-based technologies**.

Results					
CITRIX XenApp Serve 7.x 1 of 1 (100%)					
Windows					
HOST	NETWORK	HOST TECHNOLOGY	INSTANCE	STATUS	CAUSE
.151 (csharepoint2019.com2012r2.comp.rdlab.qualys.com, CSHAREPOINT2019)	Global Default Network	Windows 2016 Server		Passed	-

Scan Results

You'll see **CITRIX XenApp/XenDesktop 7.x** listed in the **Appendix** section of **Compliance Scan Results** under **Application technologies found based on OS-level authentication**.

Appendix
Target hosts found alive (IP) 10.11. .
Target distribution across scanner appliances .VM-NW1-04 : 10.11 .
Windows authentication was successful for these hosts 10.11. .
Application technologies found based on OS-level authentication Citrix XenApp/XenDesktop was found for these hosts Xenapp Server 7 10.11. .1

Policy Reports

You'll also see **CITRIX XenApp/XenDesktop 7.x (Windows)** and above host instance information in your **Compliance Policy** reports.

Detailed Results	
<div style="display: flex; justify-content: space-between;"> <div> <p>.151 (csharepoint2019.com2012r2.comp.rdlab.qualys.com, CSHAREPOINT2019)</p> <p>Controls: 45 Passed: 43 (95.56%) Failed: 2 (4.44%) Error: 0 Approved Exceptions: 0 Pending Exceptions: 1 Last Scan Date: 10/21/2020 at 01:04:23 (GMT+0530) Network: Global Default Network Tracking Method: IP Qualys Host ID: -</p> <p>Asset Tags: BU-1, CITRIX XenApp Serve 7.x</p> <p>Citrix XenApp/XenDesktop 7.x</p> <p>1. Untitled</p> </div> <div> <p>Windows Server 2016 Datacenter 64 bit Edition cpe:/o:microsoft:windows_server_2016::x64:</p> </div> </div>	
(1.4)_9838 Status of the 'Remove security tab' setting(Xenapp Server 7)	Passed MEDIUM
Instance Xenapp Server 7	
Evaluation Date 10/29/2020 at 04:30:22 (GMT+0530)	

You can also evaluate the compliance posture of **CITRIX XenApp/XenDesktop 7.x** by using your PC agents. All you need to do is set up Cloud Agent on your Windows assets and activate them for middleware assessment.

Qualys Cloud Platform

Cloud Information from Agent Now Displayed

Previously, the Cloud Provider and Cloud Service information for assets hosted in a public cloud like AWS or Azure was only displayed on the Host Information page (under General Information) when the customer had a cloud connector configured in AssetView. Now, even when a cloud connector is not set up, if the asset has a Qualys Cloud Agent installed, we will get the Cloud Provider and Cloud Service information from the Agent and display it to the user. You'll also see Cloud Provider and Cloud Service details in Asset Search Report, Host List API and Host List Detection API for these types of assets.

Here's a sample Azure asset where Cloud Provider and Cloud Service are shown.

The screenshot shows the 'Host Information 10.0.0.4' page. The 'General Information' tab is active. The 'Cloud Provider' is 'Azure' and 'Cloud Service' is 'VM', both highlighted with a red circle. Other fields include ID (3959890), IP (10.0.0.4), Network (Global Default Network), Tags (BU, BU_1, BU_TEST2, All Group BU, AST, Azure 0 VM), DNS Hostname (-), Cloud Resource ID (eb711ac8-3f18-470c-b518-4fe2f0bf8dde), NetBIOS Hostname (-), Operating System (-), OS CPE (-), Last Vulnerability Scan (08/21/2020), and Tracking Method (Azure VM).

Similarly, you'll see cloud asset metadata for these types of assets on the Cloud Asset Metadata tab on the Host Information page.

Here's a sample AWS asset with Cloud Asset Metadata shown.

Please note that we also fixed a related issue where the cloud asset metadata information did not appear in Host-based Scan Reports in certain cases (when only Information Gathered QIDs were reported for the asset).

The screenshot shows the 'Host Information 3.82.4.191' page. The 'Cloud Asset Metadata' tab is active. The table displays the following data:

Field	Status	Value	Timestamp
groupId	Success	sg-03fad62456cfd	10/26/2020 at 04:00:11 PM (GMT+0530)
groupName	Success	awseb-e-xck3j8qeuw-stack-AWSEBSecurityGroup	10/26/2020 at 04:00:11 PM (GMT+0530)
instanceGroupId	Success		10/26/2020 at 04:00:11 PM (GMT+0530)
instanceGroupName	Success		10/26/2020 at 04:00:11 PM (GMT+0530)
instanceState	Success	RUNNING	10/26/2020 at 04:00:11 PM (GMT+0530)
isMonitoringEnabled	Success	0	10/26/2020 at 04:00:11 PM (GMT+0530)
isSourceDestinationCheck	Success		10/26/2020 at

Issues Addressed

- We fixed an issue where custom WMI Query Check UDCs were not included in the scan when Scan by Policy was enabled in the compliance option profile even though the selected policy had these checks.
- We fixed an issue in the WMI Query Check UDC where double quotes (") in the query string will now be escaped automatically so that agent scan processing for this UDC will work as expected.
- We fixed an issue where users saw an error when running the Asset Search Report using a combination of asset groups and IP ranges. With this fix, users can successfully run the Asset Search Report with a combination of IP addresses + Asset Groups + Network.
- We fixed an issue where any change to a scheduled scan like a change to the owner or option profile resulted in the next launch date being updated even though the scan date/time details were not changed. With this fix, the next launch date will only be changed if the date/time scheduling details are changed.
- We fixed an issue where the wrong posture status was returned in cases where the "item not found" error was returned for a control. The option "Set status Passed for 'item not found' error" in the policy was not being correctly interpreted when evaluating the control.
- We fixed an issue where Unit Managers could not download map reports because the report was interrupted before it could finish.
- Earlier, while creating a User-Defined Control (UDC) in Policy Compliance, using unbalanced brackets as a regular expression in an evaluation string was not allowed. Now, you can use unbalanced brackets, but you must escape them in your regular expression.