

SOAR-TVM Module

Qualys Integration Guide

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Solution Summary

Rsam's Security Operations Analytics Reporting Threat and Vulnerability Management solution (TVM) provides an integrated approach to managing a broad spectrum of risks across the enterprise. Our integration with Qualys' Cloud Platform allows companies to import asset, security and compliance data stored in Qualys into one centralized location that can be supplemented with information from other data sources used across the organization.

The aggregation of this data gives context to your vulnerability and compliance results, driving prioritization of risk mitigation efforts and providing deeper insight into and a simplified way of reporting on overall organizational risk.

Rsam provides a direct connection to your Qualys console, allowing you to import any Qualys data accessible via the Qualys API. This includes data such as assets, vulnerabilities, tickets and policy compliance results. Data can also be imported using predefined Qualys templates, saved reports or raw scan results.

Rsam also offers the ability to import the Qualys Knowledgebase and compliance controls for a given policy into an Rsam library. A common use case for importing these libraries is to allow customers to add custom scoring attributes, security team comments, recommended solutions, mitigating controls, and/or modify default severity ratings for an individual Qualys ID (QID). When Qualys vulnerability or policy compliance data is imported, they are linked to appropriate record in the Rsam library and can be referenced by simply displaying the data and/or copying over pertinent data into the imported records.

Another feature Rsam offers is the ability to summarize imported Qualys vulnerability data by QID for high-volume devices (e.g., workstations, network devices). Where a typical vulnerability import will create a single record for each vulnerability present on an asset, the summary import only creates one record per vulnerability (QID) with a count of how many devices are affected by this vulnerability. It will also record the IP addresses and machine names of all affected devices, to allow for searches and reporting.

All API connections include a user-friendly interface to filter the data you'd like to import or you can to enter a custom API call using Qualys' defined API calls and parameters. Alternatively, customers can download XML files from Qualys and import those manually.

Rsam offers this out-of-the-box configuration in our TVM baseline module, including predefined import maps to allow for a customer to utilize any of the import options.

Introduction

This document will guide you through the steps necessary to configure Rsam TVM to successfully import Qualys data. The guide outlines the universal steps to access the API and is then broken into sections for each import mode:

- Importing Assets
- Importing Vulnerabilities
- Import High-volume vulnerabilities
- Import Knowledgebase
- Import Policy Compliance Data

Prerequisites for using the Qualys API Integration

Your Qualys account representative must enable your instance with the ability to use API connections

The user account required to connect to the Qualys console has API Access set to 'Yes'. This can be reviewed in your Qualys console's User management section.

General Information	
Name:	
Role:	Manager
Business Unit:	Unassigned
GUI Access:	Yes
API Access:	Yes

Data returned by import modes is based on the user's role and corresponding permissions. Please reference Appendix 2 for a listing of the user permissions applicable to the different import modes.

Adjust the session timeout for the Qualys user account, if necessary. Timeouts are set to 60 minutes by default, but can be increased in the Qualys user interface under Users \rightarrow Setup \rightarrow Security.

Adjust the number of Host tags to be returned by the API when filtering imports based on tag, if necessary. The default value is set to 300. This update is done in SQL by updating Option ID 12006 in the SYS_OPTION. Please contact support for the exact command if you need assistance.

Confirm the platform where your Qualys user account is located matches the default URLs that Rsam uses when making API calls to the Qualys console.



• Qualys Online Report: <u>https://qualysapi.qualys.com/msp/</u>

Note: If you are using the Qualys Online Report API option along with a service such as TELUS, you may need to edit this URL. This is done in SQL by updating the Option ID 9020 in the SYS_OPTION table. For exact instructions, please contact Rsam Support.

• Note that Qualys Online Report v2: https://qualysapi.qualys.com (Qualys US Platform 1)

The API Server for your user account that is used when accessing Qualys Online Report v2 API option can be found in the Qualys console:

About			Launch Help 🛛 🔀
General Information	>	General Information	
Identified Services	>	Qualvs Web Service	
Identified OS	>	Application Version:	8.9.0.2-2
Additional References	×	SCAP Module Version:	1.2
		Gualys External Scanners Security Operations Center (SOC):	64.39.96.0/20 (64.39.96.1-64.39.111.254)
		Scanner Version: Vulnerability Signature Version:	9.0.29-1 2.3.492-2
		Scanner Services	3.0.12-1
		Security Operations Center (SOC):	- qualysguard.qualys.com:443
			 qualysapi.qualys.com;443 dist01.sidc01.qualys.com;443
			- nochost.sjdc01.qualys.com:443
			- scanservice1.quaiys.com;443 - all in 64.39.96.0/20

If this is not the platform where your account is located, please enter the correct URL in Rsam Options > Data Import Options. Please ensure "/" is included at the end of your URL. You may need to log out of Rsam and log back in for the change to take effect.

RSAM Options			
Option Categories			
Data Import Options 🗧			
LDAP Import Mode	Search by User ID only	0	^
Default Unique ID value (Time attribute)			
Default Unique ID value (Currency attribute)			Ī
Default Unique ID value (IPv4 attribute)			
Default Unique ID value (IPv6 attribute)			Γ
Default Unique ID value (GeoLocation attribute)		0	
Security Center 5 URL	https://host_Url/rest		
Nexpose Console URL	https://host:port/api/1.1/xml		Ξ
Service Now Instance URL	https://instance-name.service-now.com/api/now/v1/table		
Delimiter to use for export CSV			
Qualys V2 API URL	https://qualysapi.qualys.com/		

You can validate the user account selected in the import profile and successfully authenticate to the Qualys API by performing the following steps:

- 1. Open any web browser.
- 2. Enter a manual API call into the URL field. For examples on API calls, see the <u>Manually Entered</u> <u>API Calls</u> section.
- 3. When prompted, enter the credentials for the user account selected in the import profile
- If account access is successful, you will see the results from the API call displayed in your browser. If the user account is not configured with the correct access, you will get an "Access Denied" message.
- In this case, confirm the user account has been configured with the required access stated above, as well as, the necessary permissions defined by Qualys mentioned in <u>Appendix 2:</u> <u>Qualys User Permissions</u>. Contact Qualys for the updated list of required permissions.

If access is successful and you still receive authorization errors when trying to import from Rsam, complete the steps above directly from the Rsam web server. This will confirm the network settings that allow Rsam to access the Qualys console.

Qualys Limit of Concurrent API Calls

It is important to know that Qualys enforces a limit on the number of concurrent API calls that can be made based on each customer's API tier. Exceeding this limit may prevent import profiles from loading or imports from running. Appendix 3 outlines the number of API calls each import mode makes. Should you have issues when loading profiles or imports successfully completing, please reach out to your Qualys representative to find out what your API limits are.

Accessing the Qualys API

To access the Qualys API, perform the following steps:

- 1. Log into Rsam using an Administrative account or an account that has been granted the privileges to perform imports.
- To import vulnerabilities, compliance results and Knowledgebase, navigate to Records > Import Records. To import asset data, navigate to Assessments > Import Objects.



3. Select **New** from the Import Profile drop-down list. Initially a profile will not be configured; however, a profile can be saved to allow for scheduled imports to occur.



Importing Assets

While IT Host objects are created in Rsam during a vulnerability import, customers commonly want to record additional information available in Qualys about these hosts. This may include operating system, DNS or NetBIOS name, date the asset was last scanned or authentication status. Within the Import Objects interface, you can import assets using the following 5 options:

- Qualys Online Report v2
 - Import Host List Import assets with optional filters based on asset group, IP address and/or last scan date
 - o Import Host List with Tags Import assets matching selected tag(s)
 - Import Using Saved Report Import asset data using a customer's predefined Qualys saved report
 - o Import Using Custom API Call Import assets using a user-defined Qualys supported API call
- Qualys Online Report
 - o Import Asset Groups Import assets for a selected Qualys asset group
- Manually entered API call Customer can enter a Qualys API v1 call, such as Asset IP List or Asset Search List

The output available using one option may differ from another option. Rsam's predefined mappings correspond to the available data returned. Mappings can be found in <u>Appendix 1: Predefined</u> <u>Import Mappings</u>.

Qualys Online Report v2

- 1. Select **Qualys Online Report v2** from the Source drop-down list.
- 2. Enter user credentials in the User ID and Password fields.
- 3. Select any of the following mode from the Mode drop-down list.
 - Import Host List
 - Import Host List with Tags

Importing Assets



- Import Using Saved Report
- Import Using Custom API Call

After selecting a mode, the screen is updated to provide an interface for entering parameters used in filtering the data returned. Depending on the mode, the user will need to make a required selection and/or choose to select an 'Optional' filter. These screens and filters are described in the sections below.

Import Host List Mode

Rsam will import all assets in Qualys that the user account has permissions to. You can limit the data imported by applying optional filters based on asset group, IP address and days since last scan. All filters are cumulative.

- **Select Asset Groups** Allows you to import assets within the selected asset group(s).
 - a. Click the **[...]** select icon on the right side of the Select Asset Groups field.
 - b. In the **LIST OF ASSET GROUPS** dialog that opens, select the desired asset group(s) and click **Select**. Selected asset group(s) will be listed in the Select Asset Group field.
- **Target IP /Range** Import assets that match the IP address entered or fall within an entered IP range.
 - o Enter specific IP addresses or an IP range. Separate values with a comma.
- **Scanned Within Last x Days** Returns assets that have scanned within the specified number of days selected.
- **Include Asset Tags** Select the check box to include the tags for each asset.



Import Profile:	OPTIONAL FILTERS (Filters are	cumulative)		
New	Select Asset Groups:		Target IP	s/IP (separate with comma):	Scanned Within Last x Days:
Source:					
Qualys Online Report V2	•				
Vefault Time Zone:					🖾 Indude Asset Tags
(UTC-05:00) Eastern Time (US & Canada)	0		ful		
			Select	one or more	
nap;			dsse	et groups	
	•	LIS	T OF ASSET GROUP	s	×
Jser ID:			Allort Group Name	195	
r admin			v.	1.0	^
Password:				103.0.4.275.103.0.4.276.003. .2755.005.0.4072.003.0.5 103.005.0.2.2775.001.0.1.5 103.005.0.2775.001.001.001.001.001.001.001.001.001.00	5.3.27.28.3.4.207.28.3.2.212.28.4.2 292.26.3.4.207.28.4.276.28.3.2.2 27.36.21.23.04.05.06.42.21.28.06 1.26.1.106.01.29.06
		-	AND I R. VEDRA	.25.05.000.401.000.00.0	80.40.381.05.083.40.201.05.083.4
Mode:				3.54,05.085,45,132,08,05,05,05,05,05,05,05,05,05,05,05,05,05,	175.47.256.55.53.12.42- 30-06.86.255.31
Import Host List	0	• 🜍	AWS EU1	10.228.128.44.10.228.	129.108
			Compliance Hosts	10.1.1.23.10.1.1.76.10	11.007.06.1.2.129
Import New Ma	Parse Source		DM test group	10.1.1.22	Y
			Records per page 7	5 🔍 🔇 Page 1	t of 1 > >>
					Select Cancel
					Cancer

Import Host List Using Tags Mode

Rsam requires an entry to import assets that match the selected tag(s). Only assets that are tagged with the selected value(s) are returned.

- 1. Click the] select icon on the right side of the Select Tags field.
- 2. In the **LIST OF TAGs** dialog that opens, select the check boxes of the tags you want to import. Selecting the check box next to **Tag Name** will select all tags.
- 3. Selected tags(s) will be listed in the Select Tags field.
- 4. **Scanned Within Last x Days** Returns assets that have scanned within the specified number of days selected.

Importing Assets



Import Profile:	REQUIRED FILTERS		OPTIONAL FILTER
New 2	Select Tags:		Scanned within Last x Days :
Source:			
Qualys Online Report V2 +			
lefadt Time Zone:			
(UTC-05:00) Eastern Time (US & Canada) +			
£20.		Click to filter	
-		tags	
Jser ID:		LIST OF TAGS	×
	Select this box	Ag Name	
Password:	tags	Ý.	^
		All Assets New	
tode:		AllAssets	
import nois carry raga		Asset Groups	
		Asset Search Tags	
	Select one or	AWS .	
	more tags	AWE 1 N. Virginia	
		AWS EUL	
		AWS-Corp	
		AWS-OUSTOMPS	~
		Records Per Page 75 C Page 1	4 of 2 > >>

Import Using Saved Report Mode

Rsam will import asset data returned in a Qualys saved report. Rsam will display a list of XML and CVS saved reports defined in your Qualys instance.

- 1. Click the] select icon on the right side of the Select Report field.
- 2. In the **LIST OF REPORTS FOR USER TO SELECT** dialog that opens, select the saved report you want to import. The report name will be listed in the Select Report field.

Import Profile:					
New	\$				
Source:					
Qualys Online Report V2	\$	LIST OF REP	ORTS FOR USER TO SELI	ECT	×
Default Time Zone:	_	Report Type		Report Generated By	Date Generated
(UTC-05:00) Eastern Time (US & Canada)	\$	∇	∇	Ŷ	∇
		Scan	Example Report	1001.000	2017-05-12 14:41:54
Map:		Authentication	MV Authentication Report	1001.200	2017-05-07 21:00:13
	\$	1			
User ID:		Select the	e desired		
r_admin		rep	ort		
L					
Password:					
•••••					
Mode:					
Import Using Saved Report	\$	Recor	ds per page 75 <<	< Page 1 + c	of 1 > >>
Select Report:					
	[]				Select Cancel
III Reports Reports	Sc	hedules	Templates	Risk Analysis	Search Lists
Actions (0) V New V Search	h Filter	s 🕶 🤇 My R	teports		
View Report Title			Type Launched	Report Template	
Example Report			۲	Confirmed Severi	ity 3 - 5
□ 🔎 MV Authentication Report			+ 皆	Authentication Re	port

Note that if saved reports expire or are removed from the Qualys console, subsequent imports may fail.

For more information about Qualys saved reports and templates, see <u>Qualys Report Template</u> <u>Configuration</u>.

Import Using Custom API Call

This mode allows you to import data using a supported Qualys API call available for your Qualys module(s), as defined by the Qualys approved parameters you select. Please refer to Qualys' API documentation for the list of valid API calls and available parameters.

- 1. Select the API call mode (POST or GET) required by the API call.
- 2. Enter the API call you wish to use.

Importing Assets



Import Profile:	Select the API call mode:
New =	POST <
	Enter the API call below. This text will be appended to the base URL set in the Data Import Options section of Rsam
Source: Qualus Opline Report V2	Inne/roet/2 0/easrth/am/hortsreat
Quarys of the Report VI	<pre>cervicesce.</pre>
Default Time Zone:	<rr></rr>
(UTC-05:00) Eastern Time (US & Canada) ÷	<u ServiceRequest>
Map:	
:	N
User ID:	Example API call to asset management and tagging module.
r_admin	Note that this call requires use of the POST API call mode.
Password	This call will import assets with tag name starting "Tag1"
Mode:	
Import Using Custom API Call +	
Import Now Customize New Map	Parse Source
Import Profile:	Select the API call mode:
New \$	GET
	Enter the API call below. This text will be appended to the base URL set in the Data Import Options section of Rsan
Source: Ouslys Online Report V2 +	/api/2.0/fb/asset/host/Taction-listRitruncation_limit=08detaik=Alibuse_taes=18tae_set_hv=namektao_set_include=tae1.tae28show_taes=1
Quarys on the Report V2	And sold Reserves and another Reserves and an and an and an and an and an and an and and
Default Time Zone:	
(UTC-05:00) Eastern Time (US & Canada)	
Map:	
\$	
User ID:	
r_admin	
Password:	
Mode:	
Import Using Custom API Call	
Import Now Customize New Map	Parse Source

Qualys Online Report

- 1. Select **Qualys Online Report** from the Source drop-down list.
- 2. Enter user credentials in the User ID and Password fields.
- 3. Select the **Import asset groups** mode from the Mode drop-down list.
 - a. Click the **[...]** select icon on the right side of the Select Assets field.
 - b. In the pop-up that opens, select the desired asset group and click **Select**.



Import Profile:		
New	•	
Source:		🧭 http://relsec-mv3/?Action=1&SheetNames=undefined - Select asset groups - Windows Internet. 💷 💷 🛲 🌉
Qualys Online Report	•	
Default Time Zone:		Al
(UTC-05:00) Eastern Time (US & Canada)	•	DM test group
Map:		Home
	+	Office
User ID:		
r_admin		
Password:		
Mode:		
Import asset groups	+	
Select assets:		Select Cancel
	[]	
Import New Customize New Ma		area Courna
Contract (190)		

Manually Entered API Calls

Users can manually enter Qualys V1 API calls to import asset data.

- 1. Select **XML file** from the Source drop-down list.
- 2. Enter user credentials in the User ID and Password fields.
- 3. Change the Source Location to URL and enter a valid API call. For more information on Qualys API calls and parameters, please refer to the *Qualys-api-v1 User Guide*.

Examples of API calls to import asset data:

- Asset IP List Returns all assets scanned with host details, including asset tags https://qualysapi.qualys.com/msp/asset_ip_list.php?detailed_results=1
- Asset Search Returns all assets scanned for one or more asset groups. Includes host details except for asset tags. Adjust this API call to specify individual asset groups or all asset groups. https://qualysapi.qualys.com/msp/asset_search.php?target_asset_groups=assetgroupname

In the example below, replace assetgroupname with the name(s) of the Qualys asset group(s) you want to import or to return all scanned assets, update the parameter to 'All'. Note that asset group names are case-sensitive and any spaces in the asset group name must be replaced with the + sign. Multiple asset groups can be imported by separating them with a comma.

Importing Assets

人	R ·sam

Import Profile:
New 2
Source:
XML file =
Default Time Zone:
(UTC-05:00) Eastern Time (US & Canada) :
Map:
÷
Source Location:
URL 0
User ID:
r_admin
Password:
••••••
UnCompress Compressed Files
URL https://qualysapi.qualys.com/msp/asset_search.php?target_asset_groups=DM+Test+Group,Home
Import Now Customize New Map Parse Source

Importing Vulnerabilities

By using the Import Records interface, you can import vulnerabilities using the following options:

• Qualys Online Report v2

- o Import Current Vulnerabilities Import vulnerabilities with optional filters based on asset group, IP address and/or last scan date.
- o Import Using Saved Report Imports vulnerability data using a customer's predefined Qualys saved report.
- o Import Using Custom API Call Import vulnerabilities using a user-defined Qualys supported API call.

• Qualys Online Report

- o Import vulnerabilities using saved reports Imports vulnerabilities found using a customer's predefined Qualys saved report.
- o Import vulnerabilities using templates Imports vulnerabilities found using a customer's predefined Qualys template.
- o Import vulnerabilities using raw data Imports all current vulnerabilities for a selected scan of an asset group or IP addresses.
- o Import Qualys Tickets Imports vulnerabilities based on Qualys ticketing set up in your instance.

The output available using one option may differ from another option. Rsam's predefined mappings correspond to the available data returned are available in <u>**Predefined Import Maps**</u>.

Qualys Online Report v2

- 1. Select **Qualys Online Report v2** from the Source drop-down list.
- 2. Enter user credentials in the User ID and Password fields.
- 3. Select a mode to import from. There are 2 options available:
 - Import Current Vulnerabilities

Importing Vulnerabilities



• Import Using Saved Report

After selecting a mode, the screen is updated to provide a graphical interface for entering parameters used in filtering the data returned. Depending on the mode, the user will need to make a required selection and/or choose to select an 'Optional' filter. These screens and filters are described in the sections below.

Import Current Vulnerabilities

Rsam will import all vulnerabilities in Qualys that the user account has permissions to. The severity rating is required and you can further limit the data imported by applying optional filters based on asset group, IP address, tags and days since last scan. All filters are cumulative.

- **Vulnerability Severity** You are required to select at least one severity rating.
- **Asset group** Import vulnerabilities for assets within the selected asset group(s)
 - o Select the Filter by Asset Groups/IPs radio button.
 - o Click the **[...]** select icon on the right side of the Select Asset Groups field.
 - o In the pop-up that opens, select the desired asset group(s) and click **Select**.
 - o Selected asset group(s) will be listed in the **Select Asset Group** field.
- **Target IP /Range** Import vulnerabilities that match the IP address entered or fall within an entered IP range
 - o Enter specific IP addresses or an IP range. Separate values with a comma.
- **Tags** Import vulnerabilities for assets with the selected tag(s).
 - o Select the Filter by Tags radio button.
 - o Click the **[...]** select icon on the right side of the Select Tags field.
 - o In the pop-up that appears, select the check boxes of the tags you want to filter your import. Selecting the check box next to **Tag Name** will select all tags.
 - o Selected tags(s) will be listed in the Select Tags field.
- Scan Results from Last x Number of Days Returns vulnerabilities for assets that have scanned within the specified number of days selected.
- **Show Informational** Select this check box to includes vulnerabilities flagged as informational in your import.



Import Profile:		REQUIRED	OPTIONAL	. FILTERS (Filters are cumulative)				
New	:	Vulnerability	Scan Results from Last x Number of Davs:					
Source:	Severity:	15	Show Informational					
Qualys Online Report V2	•	E1	© Filte	r by Asset Groups/IPs 💌 Filter by Tags				
Default Time Zone:		3	Select Ta	igs:				
(UTC-05:00) Eastern Time (US & Canada)	•	V 4	EO-CHOS	85				
Language		≥ 5	Asset Se	arch Tags				
English	:							
Light				[]				
Map:	_							
	:		(Click to filter				
User ID:				tags				
			1					
Password:		Select this box						
		to select all						
Mode:		cays		All Assets New				
Import Current Vulnerabilities	+			AllAppets				
				Assat Groups				
		Select one or		Asset bearth high				
		more tags						
				AWS 1 N. Virginia				
				AWS EU1				
				AWS.Corp				
				AWS.CUSTOMER				
				Records Per Page 75 < Page 1 # >>				
				Select Cancel				

Import Using Saved Report

Please refer to the **Import Using Saved Report** section under Importing Assets.

Import Using Custom API Call

Please refer to the **Import Using Custom API Call** section under Importing Assets.

Qualys Online Report

- 1. Select **Qualys Online Report** from the Source drop-down list.
- 2. Enter user credentials in the User ID and Password fields.
- 3. Select any of the following import mode from the Mode drop-down list.
 - Import vulnerabilities using saved reports

Importing Vulnerabilities



- Import vulnerabilities using templates
- Import vulnerabilities using raw data
- Import tickets



Import Vulnerabilities using Saved Reports

Rsam will display a list of saved reports defined in your Qualys instance.

Import Profile:					
New	+				
Source:					
Qualys Online Report	•				
Map:		6 http://relsec-mv3/?Action:	=08:SheetNames=undefined	- Select Report - Windows In	ternet Explo 😐 💷 💌
	•				Get Last Report Only
liser ID:					1
Password:		scan/1410471762.08054	2014-09-11T21:42:42Z	67.80.58.243, 70.91.51.205, 98.109.117.61, 192.168.202.2- 192.168.202.110	ERROR
		scan/1410472759.08098	2014-09-11721:59:192	10.0.0.0-10.10.10.255	ERROR
Mode:		scan/1412270690.97385	2014-10-02717:24:502	199.47.221.232	FINISHED
Import vulnerabilities using saved reports	•	Select a sel	aved report to ulnerabilities		
Select reports:	-				
Target IP(s):					
Import Now Customize New M	tap				Select Cancel



HI Reports	Reports	Schedules	Templates	Risk Analysis	Search Lists	Setup		
Actions (0) V New V Search Filters V								
View Report Title Type Launched Report Template								
🗏 🔎 Example Sa	ved Report		۲	n Technical Rep	ort with Potentials			

For more information on how to set up Qualys saved reports and templates, see <u>Qualys Report</u> <u>Template Configuration</u>.

Import Vulnerabilities using Templates

Rsam will display a list of templates defined in your Qualys instance.

Import Profile:									
New	0								
Source:	ſ	6 http://relsec-mv3/?Action=28/SheetName	es=undefined - Select template - Windows Interr	et Ex.					
Qualys Online Report	\$	G Hide system and manual templates							
Default Time Zone:		Construction with the second with the state of the							
(UTC-05:00) Eastern Time (US & Canada)	+	Copy or vulnerability report with Last Scan L	vace						
13001308-		Executive Report							
English	.	High Severity Report							
Ligion	·	Qualys Patch Report							
Map:	_	Technical Report	Poloct a template to						
	\$	Technical Report with Potentials	import vulnerabilities						
User ID:		Template 1 - Home							
		Test for asset tags							
Password:		Vulnerability report with Last Scan Date							
Mode:		L		Columb Council					
Import vulnerabilities using templates	+	L		Cancel					
Select template:									
	L	1							

Importing Vulnerabilities



III Reports Reports Schedules	Templates	Risk Analysis	Search Lists							
Actions (1) V New V Search Filters V										
🗆 🕥 Title										
🗐 🌖 High Severity Report										
Map Template										
🗌 🔇 Payment Card Industry (PCI) Executive Report										
📃 🔇 Payment Card Industry (PCI) Technical Report										
🔲 🔇 Qualys Patch Report										
🔲 🔇 Qualys Top 20 Report										
🗌 🔇 SANS Top 20 Report										
🔲 🔇 Technical Report										
🗹 🔇 Technical Report with Potentials 🔶										

For more information on how to set up Qualys saved reports and templates, see **Qualys Report** <u>Template Configuration</u>.

Import Vulnerabilities using Raw Data

Rsam will import the last scan results for selected asset groups defined in your Qualys instance. All filters are cumulative.

Rsam will import last scan results for selected asset groups defined in your Qualys instance that the user account has permissions to. An asset group is required and you can further limit the data imported by applying optional filters based IP address. All filters are cumulative.

- **Asset group** Import vulnerabilities for assets within the selected asset group(s).
 - 1. Click the **[...]** select icon on the right side of the Select Assets field.
 - 2. In the pop-up that opens, select the desired asset group(s) and click **Select**.
 - 3. Selected asset group(s) will be listed in the Select Asset Group field.
- **Target IP /Range** Import vulnerabilities that match the IP address entered or fall within an entered IP range
 - o Enter specific IP addresses or an IP range. Separate values with a comma.



Import Profile:					
New	.0				
Source:					
Qualys Online Report	•				
Default Time Zone:			_		
(UTC-05:00) Eastern Time (US & Canada)	•		0.5	elect asset groups - Mozilla Firefox	
Language:		Select this check		resec-mv12/rsamv_Fnongs/FL_XML_POPOP.aspx/Accon=3asheedvames=underned	
English		box to select all	18	Al	
chylon -		asset groups		All Assets New	
Map:	_	Select desired		AlAssets	
	:	asset groups	10	AWS 1 N. Virginia	
User ID:				AWS EU1	
				Compliance Hosts	_
Descuenti				Dec5	
Passwurd:				DM Group	
Mode:				DM test group	
Import vulnerabilities using raw data				Home	
				90 Canada	
Select assets:				Select	ancel
		<u>[]</u>	_		
Target IP(s):					

Import Qualys Tickets

Rsam will import existing Qualys tickets based on the filters selected. The ticket status, vulnerability and potential severity rating filters are required. You can further limit the data imported by applying optional filters based the numbers of days since the ticket was last modified and the ticket assignee. All filters are cumulative.

It is recommended to only select 'Open' to take advantage of Rsam's inherent dynamic workflow configuration. This will allow Rsam to automatically change the WF state of tickets that are no longer open. If other states are imported, handlers must be used to check the status and update the workflow state accordingly.

• Ticket Status

- o Open Imports tickets with status of Open
- o Resolved Imports tickets with status of Resolved
- o Closed Imports tickets with status of Closed
- o Ignored Imports tickets with status of Ignored
- Vulnerability Severity Import tickets for Confirmed Vulnerabilities that match the selected severity rating

Importing Vulnerabilities



- **Potential Severity** Import tickets for Potential Vulnerabilities that match the selected severity rating
- Select Modified Since Date Import tickets that have been modified since the selected date. On subsequent imports, Rsam will automatically use the date of last import as the modified since date.
- Select Ticket Assignee Import tickets specific to a ticket assignee by entering the user's Qualys user ID

Import Profile:				
New +				
Source: Qualys Online Report ÷	Select Ticket States:	Vulnerability Severity:	Potential Severity:	Select Modified Since Date:
Default Time Zone:	Resolved	2	2	Select Ticket Assignee:
(UTC-05:00) Eastern Time (US & Canada) +	Ignored	8	14	
Language:		5	5	
English ¢				
Map:				
User ID:				
Password:				
Mode:				
Import Tickets 0				
Import Now Customize New Map	Parse Source			

Importing using a Downloaded Qualys Results XML file

- 1. From the Qualys console, access the report you want to download in XML.
- 2. In the **Import Records** screen, select **XML file** from the Source drop-down list and browse to the downloaded file(s).



Import Profile:	
New	\$
Source:	
XML file	•
Default Time Zone:	
(UTC-05:00) Eastern Time (US & Canada)	÷
Language:	
English	0
Map:	
	*
Source Location:	
File Name	*
User ID:	
Password:	
UnCompress Compressed Files	
File Path:	A
Brow	Add Remove Clear All

Importing Vulnerabilities for High-Volume Devices

Rsam offers the ability to summarize Qualys vulnerability data by QID for high-volume vulnerabilities typically associated with devices such as, workstations or network devices. The summary imports records under a static object and creates one record per vulnerability with a count of how many devices are affected by the vulnerability. It records the IP addresses and machine names of all affected devices to facilitate searches and reporting.

Any of the vulnerability import options discussed above can be used to create your data result set. The pre-defined <u>Qualys_Summary_XML (v.1)</u> map found in <u>Predefined Import Maps</u> is based on the Qualys Online Report - Import Vulnerabilities using Saved Reports import option.

As the high-volume vulnerability import map configuration differs slightly from standard vulnerability import maps, please refer to the "High-Volume Vulnerability Imports" supplemental document for more information.

Importing Vulnerabilities





Importing Qualys Knowledgebase

The Qualys Knowledgebase is imported into the Vulnerability KnowledgeBase library in Rsam, one record for each QID. Companies can supplement the imported data by adding custom attributes to this record type, such as modified severity ratings, recommended solutions or mitigating controls. The data will be displayed to the remediation teams when Qualys vulnerabilities are assigned. In addition, a specific QID can be flagged as a false positive that applies to the enterprise. This workflow state will perpetuate to all imported vulnerabilities matching that QID.

Note that you must import the Qualys Knowledgebase if using the Import Current Vulnerabilities import mode described above.

You can limit the data imported by applying optional filters based on patch availability, publication or modification date. You can also include PCI reasons in the output. All filters are cumulative.

- Limit to Patchable Vulnerabilities Returns Knowledgebase entries marked as "Patch Available"
- **Show PCI Reasons** Show reasons for passing or failing PCI compliance (requires the CVSS Scoring feature to be turned on in your Qualys subscription).
- **Modified Within Last x Days** Returns Knowledgebase entries that have been modified within the specified number of days selected.
- **Published Within Last x Days** Returns Knowledgebase entries that have been published within the specified number of days selected.



Import Profile:	OPTIONAL FILTERS (Filters are cumulative)					
New +	Limit to Patchable Vulnerabilities	Modified Within Last x Days:				
Source:	Show PCI Reasons					
Qualys Online Report V2		Published Within Last x Days:				
Default Time Zone:						
(UTC-05:00) Eastern Time (US & Canada) 🗧						
Language:						
English ÷						
Map:						
+						
User ID:						
Password:						
Mode:						
Import Knowledgebase 🔶 💠						

A pre-defined Rsam map can be found in <u>Predefined Import Maps</u>. The map points to the TVM Data library object which will contain all Qualys Knowledgebase records. If you do not have this object in your database, please create an object of the SOAR Data object type and update the map accordingly.

The numeric Patchable value returned by Qualys is translated on the **Translate** tab to a checkbox value in the related Patchable attribute.

G	ieneral	Мар	Filter	Action	Unique ID	Definition	Translate	Mana	gement		
ſ	XML TY	PE			XML I	LEMENT			PATH	ORIGINAL_VALUE	NEW VALUE
	Element PATCHABLE		/VULNS/VULN/	1	Yes						
	Element PATCHABLE			/vulns/vuln/ 0		0	No				
LE											

Importing Policy Compliance Data

Within the Import Records interface, you can import compliance data from the Qualys Online Report v2 source by using the following 2 options:

- Import Compliance Controls Import compliance controls used for policy compliance assessments
- Import Compliance Scan Results Imports compliance result data for the selected policies

Rsam's predefined mappings correspond to the available data returned. Mappings can be found in **Predefined Import Maps**.

Qualys Online Report v2

- 1. Select **Qualys Online Report v2** from the Source drop-down list.
- 2. Enter your user credentials in the User ID and Password fields.
- 3. Select any of the following import modes from the Mode drop-down list.
 - Import Compliance Controls
 - Import Compliance Scan Results

After selecting a mode, the screen is updated to provide a graphical interface for entering parameters used in filtering the data returned. Depending on the mode, the user will need to make a required selection and/or choose to select an 'Optional' filter. These screens and filters are described in the sections below.

Import Compliance Controls

Rsam will import all compliance controls in Qualys that the user account has permissions to. You can further limit the data imported by applying optional filters based on date the control was created or modified. All filters are cumulative.

- **Created Within Last x Days** Returns controls that have been created within the specified number of days selected.
- **Modified Within Last x Days** Returns controls that have been modified within the specified number of days selected.



Import Profile:	OPTIONAL FILTERS (Filters are cumulative)
New	Created Within Last × Days:
Source:	
Qualys Online Report V2	* Modified Within Last x Days:
Default Time Zone:	
(UTC-05:00) Eastern Time (US & Canada)	
Language:	
English	*
Map:	
	•
User ID:	
Password:	
Mode:	
Import Compliance Controls	8
Import Now Customize New Ma	Ip Parse Source

Import Compliance Scan Results

Rsam will import all compliance scan results in Qualys for assets that the user account has permissions to and which are assigned to a policy. The compliance status, criticality rating and policy are required and you can further limit the data imported by applying optional filters based on asset group, IP address, tags and days since compliance status update. All filters are cumulative.

- **Compliance Status** You are required to select at least one compliance status.
- **Criticality Rating(s)** You are required to select at least one criticality rating.
- **Select Policy** Select up to a maximum of 10 policies that you want to import compliance scan results for.
 - a. Click the select icon on the right side of the Select Policy field.
 - b. In the pop-up that opens, select the check boxes of the policies you want to filter your import. You can select up to a maximum of 10 policies.
 - c. Selected policies will be listed in the Select Policy field.
- Select Asset groups Import compliance scan results for assets within the selected asset group(s). Compliance results will only be imported for these assets assigned to a policy selected above.
 - a. Click the **[...]** select icon on the right side of the Select Asset Groups field.

- b. In the pop-up that opens, select the desired asset group(s) and click **Select**.
- c. Selected asset group(s) will be listed in the Select Asset Group field.
- **Target IPs /IP** Import compliance scan results that match the IP address entered or fall within an entered IP range.
 - o Enter specific IP addresses or an IP range. Separate values with a comma.
- **Select Tags** Import compliance scan results for assets with the selected tag(s). Compliance results will only be imported for these assets assigned to a policy selected above.
 - a. Click the **...** select icon on the right side of the Select Tags field.
 - b. In the pop-up that opens, select the check boxes of the tags you want to filter your import. Selecting the check box next to Tag Name will select all tags.
 - c. Selected tags(s) will be listed in the Select Tags box.
- **Compliance Status Updated within Last x Days** Returns compliance scan results for those that have updated within the specified number of days selected.

Import Profile:		REQUIRED FILTERS	OPT	ION	AL FILTERS (Filters are cur	mulative)
New	•	Compliance Criticality Status: Rating(s):	Se	lect /	Asset Groups:	Target IPs/IP (separate with comma):
Source:		Pass 1(Minimal)				
Qualys Online Report V2	+	Fail 2(Medium) From 2/Serious)				
Default Time Zone:		4(Critical)				
(UTC-05:00) Eastern Time (US & Canada)		5(Urgent)	1	SEL	ECT POLICY(Max 10 Polic	cies can be selected.)
Language:		Select Policy:		0	Policy Mile	Folicy Created By
English				-	v	v c
				U	AAA-QA Test	reatr_kd1
Map:					Account Policy	readin_as
	:	Select up to 10	7	0	CIS Benchmark for Hicrosoft IIS 8.n. v1.1.0. [Scened, Level 1 and Level 2] v.3.0	reatr_kd1
User ID:		poneres [m]		۵	CIS Benchmark für Windows XP, v2.0.1. [Scored. Enterprise Desktop Standalone] v.3.0	reatr_kd1
Password:				۵	CIS Windows XP Benchmark v. 2.0.1 (9/05) leveraging Qualys Centrole Enterprise level plus Nov- defined Rams v.1	reatin_se
					Cisco	reatr_kdi
Mode:					Hest Policy	reatr_kd1 🗸
Import Compliance Scan Results	+				Records per page 75	Page 1 = of 1 = 35
						Select Cancel

Managing Maps

Refer to <u>Appendix 1: Predefined Import Maps</u> for the list of predefined maps available for each import mode listed above.

For more information on reviewing and/or updating the predefined maps, refer to the document titled *Supplemental Integration Guide – Managing TVM Import Mappings*.

Appendix 1: Predefined Import Maps

Asset Import Maps

V: QUALYS_HOST_LIST_API (v.1)

Import Mode: Qualys Online Report v2 – Import Host List AND Import Host List Using Tags

Unique ID: SYS: Scanner Host ID

Rsam Attribute	Path
Object Name	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/IP
SYS: Asset Group	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/ASSET_GROUP_I DS
SYS: Asset Tracking Method	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/TRACKING_MET HOD
SYS: Instance ID (for cloud assets)	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/EC2_INSTANCE_ ID
SYS: Last Authenticated Scan Date	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/LAST_VM_AUTH _SCANNED_DATE
SYS: Last Compliance Scan Date	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/LAST_COMPLIA NCE_SCAN_DATETIME
SYS: Last Scanned Date	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/LAST_VULN_SCA N_DATETIME
SYS: Qualys GUID	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/QG_HOSTID
SYS: Scanner Host ID	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/ID
VM: Asset Tags	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/TAGS/TAG/NAM E
VM: Host IP Address	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/IP
VM: Host Name - DNS	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/DNS

Appendix 1: Predefined Import Maps



Rsam Attribute	Path
VM: Host Name - NetBIOS	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/NETBIOS
VM: Host OS	/HOST_LIST_OUTPUT/RESPONSE/HOST_LIST/HOST/OS

H: QUALYS_AUTHENTICATION_API (v.1)

Import Mode: Qualys Online Report v2 –Import Using Saved Report (Authentication Report Template)

Unique ID: Name

Rsam Attribute	Path
Object Name	/COMPLIANCE_AUTHENTICATION_REPORT/ASSET_GROUP_LIST/ASSET_GROUP /TECHNOLOGY_LIST/TECHNOLOGY/HOST_LIST/HOST/IP
SYS: Last Authenticated Scan Date	/COMPLIANCE_AUTHENTICATION_REPORT/ASSET_GROUP_LIST/ASSET_GROUP /TECHNOLOGY_LIST/TECHNOLOGY/HOST_LIST/HOST/LAST_SUCCESS
SYS: Failed Authentication Reason	/COMPLIANCE_AUTHENTICATION_REPORT/ASSET_GROUP_LIST/ASSET_GROUP /TECHNOLOGY_LIST/TECHNOLOGY/HOST_LIST/HOST/CAUSE
SYS: Authentication	/COMPLIANCE_AUTHENTICATION_REPORT/ASSET_GROUP_LIST/ASSET_GROUP /TECHNOLOGY_LIST/TECHNOLOGY/HOST_LIST/HOST/STATUS

H: QUALYS_ASSET_GROUP_API (v.1)

Import Mode: Qualys Online Report – Import Asset Groups

Unique ID: Name

Rsam Attribute	Path
Object Name	/ASSET_GROUP_LIST/ASSET_GROUP/SCANIPS/IP/
VM: Host Domain	/ASSET_GROUP_LIST/ASSET_GROUP/MAPDOMAINS/DOMAIN
VM: Host IP Address	/ASSET_GROUP_LIST/ASSET_GROUP/SCANIPS/IP/
SYS: Asset Group	/ASSET_GROUP_LIST/ASSET_GROUP/TITLE



H: QUALYS_ASSET_LIST_API (v.1)

Import Mode: Manually entered API Call - Asset IP List

Unique ID: Name

Rsam Attribute	Path
Object Name	/HOST_LIST/RESULTS/HOST/IP
VM: Host IP Address	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/IP
VM: Host Name - DNS	/HOST_LIST/RESULTS/HOST/DNS
VM: Host Name - NetBIOS	/HOST_LIST/RESULTS/HOST/NETBIOS
SYS: System Description	/HOST_LIST/RESULTS/HOST/COMMENT/VALUE
VM: Host OS	/HOST_LIST/RESULTS/HOST/OPERATING_SYSTEM

H: QUALYS_ASSET_SEARCH_API (v.1)

Import Mode: Manually entered API Call - Asset Search

Unique ID: Name

Rsam Attribute	Path
Object Name	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/IP
VM: Host IP Address	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/IP
SYS: Asset Group	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/ASSET_GROUPS/ASSET_GR OUP_TITLE
VM: Host Name - DNS	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/DNS
VM: Host Name - NetBIOS	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/NETBIOS
SYS: Last Scanned Date	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/LAST_SCAN_DATE
VM: Host OS	/ASSET_SEARCH_REPORT/HOST_LIST/HOST/OPERATING_SYSTEM



H: QUALYS_ASSET_IMPORT – Saved Report (v.1)

Import Mode: Downloaded Saved Report (XML)

Unique ID: Name

Rsam Attribute	Path
Object Name	/SCAN/IP/value
VM: Host IP Address	/SCAN/IP/value
VM: Host Name - DNS	/SCAN/IP/name
VM: Host OS	/SCAN/IP/OS
VM: Host Name - NetBIOS	/SCAN/IP/NETBIOS_HOSTNAME

H: QUALYS_ASSET_DATA_REPORT_API (v.1)

Import Mode: Downloaded Template (XML)

Unique ID: Name

Rsam Attribute	Path
Object Name	/ASSET_DATA_REPORT/HOST_LIST/HOST/IP
VM: Host IP Address	/ASSET_ DATA _REPORT/HOST_LIST/HOST/IP
SYS: Asset Group	/ASSET_ DATA _REPORT/HOST_LIST/HOST/ASSET_GROUPS/ASSET_GROUP_TITLE
VM: Host Name - DNS	/ASSET_ DATA _REPORT/HOST_LIST/HOST/DNS
VM: Host Name - NetBIOS	/ASSET_ DATA _REPORT/HOST_LIST/HOST/NETBIOS
VM: Host OS	/ASSET_ DATA _REPORT/HOST_LIST/HOST/OPERATING_SYSTEM
VM: Asset Tags	/ASSET_ DATA _REPORT/HOST_LIST/HOST/ASSET_TAGS/ASSET_TAG



Vulnerability Import Maps

V: QUALYS_CURRENT_VULN_API (v.1)

Import Mode: Qualys Online Report v2 –Import Current Vulnerabilities

Unique ID: Vulnerability ID + Port

Rsam Attribute	Path
Vulnerability - Qualys VM	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/
VM: Actual Result	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/RESULTS
VM: Date First Found	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/FIRST_FOUND_DATETIME
VM: Date Last Found	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/LAST_FOUND_DATETIME
VM: Lookup Vulnerability KB Entry	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/QID
VM: Port	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/PORT
VM: Protocol	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/PROTOCOL
VM: Qualys Status	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/STATUS
VM: Severity - Native (numeric)	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/SEVERITY
VM: SSL	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/SSL
VM: Vulnerability ID	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/QID
VM: Vulnerability Type/Family	/HOST_LIST_VM_DETECTION_OUTPUT/RESPONSE/HOST_LIST/HOST/DETEC TION_LIST/DETECTION/TYPE



V: Qualys_XML (v.3 – Saved Reports)

Import Mode: Qualys Online Report –Import Vulnerabilities using Saved Reports

Filters: Severity > 1

Unique ID: Vulnerability ID + Port

Rsam Attribute	Path
Vulnerability - Qualys VM	/SCAN/IP/VULNS/CAT/VULN
Vulnerability ID	/SCAN/IP/VULNS/CAT/VULN/number
Vulnerability Name	/SCAN/IP/VULNS/CAT/VULN/TITLE
Description	/SCAN/IP/VULNS/CAT/VULN/DIAGNOSIS
Fix/Resolution	/SCAN/IP/VULNS/CAT/VULN/SOLUTION
Reference - CVE	/SCAN/IP/VULNS/CAT/VULN/CVE_ID_LIST/CVE_ID/ID
Reference - Bugtraq	/SCAN/IP/VULNS/CAT/VULN/BUGTRAQ_ID_LIST/BUGTRAQ_ID/ID
Reference - Bugtraq - URL	/SCAN/IP/VULNS/CAT/VULN/BUGTRAQ_ID_LIST/BUGTRAQ_ID/URL
Reference - CVE URL	/SCAN/IP/VULNS/CAT/VULN/CVE_ID_LIST/CVE_ID/URL
Severity - Native (numeric)	/SCAN/IP/VULNS/CAT/VULN/severity
Risk	/SCAN/IP/VULNS/CAT/VULN/CONSEQUENCE
Actual Result	/SCAN/IP/VULNS/CAT/VULN/RESULT
Category	/SCAN/IP/VULNS/CAT/value
Scan ID	/SCAN/value
Port	/SCAN/IP/VULNS/CAT/port
Protocol	/SCAN/IP/VULNS/CAT/protocol
Exploit Source	/SCAN/IP/VULNS/CAT/VULN/CORRELATION/EXPLOITABILITY/EXPLT_SR C



V: QUALYS_XML (v.4 – Template)

Import Mode: Qualys Online Report –Import Vulnerabilities using Templates

Filters: Severity > 1

Unique ID: Vulnerability ID + Port + Protocol

Rsam Attribute	Path
CVSS: CVSS Base Score	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/C VSS_SCORE/CVSS_BASE
CVSS: CVSS Temporal Score	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/C VSS_SCORE/CVSS_TEMPORAL
VM: Category	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/C ATEGORY
VM: Date First Found	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/FI RST_FOUND
VM: Date Last Found	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/L AST_FOUND
VM: Description	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/T HREAT
VM: Exploit Source	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/C ORRELATION/EXPLOITABILITY/EXPLT_SRC
VM: Fix/Resolution	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/S OLUTION
VM: Host IP Address	/ASSET_DATA_REPORT/HOST_LIST/HOST/IP
VM: Host Name - DNS	/ASSET_DATA_REPORT/HOST_LIST/HOST/DNS
VM: Host OS	/ASSET_DATA_REPORT/HOST_LIST/HOST/OPERATING_SYSTEM
VM: Lookup Vulnerability KB Entry	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/Q ID
VM: Port	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/P ORT



Rsam Attribute	Path
VM: Protocol	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/P ROTOCOL
VM: Qualys Final CVSS Score	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/C VSS_FINAL
VM: Qualys Status	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/V ULN_STATUS
VM: Reference - Bugtraq	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/B UGTRAQ_ID_LIST/BUGTRAQ_ID/ID
VM: Reference - Bugtraq - URL	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/B UGTRAQ_ID_LIST/BUGTRAQ_ID/URL
VM: Related CVE Entries	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/C VE_ID_LIST/CVE_ID/ID
VM: Risk	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/I MPACT
VM: Service	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/S ERVICE
VM: Severity - Native (numeric)	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/S EVERITY
VM: Severity - PCI	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/P CI_FLAG
VM: SSL	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/S SL
VM: Times Found	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/TI MES_FOUND
VM: Vulnerability ID	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/Q ID
VM: Vulnerability Name	/ASSET_DATA_REPORT/GLOSSARY/VULN_DETAILS_LIST/VULN_DETAILS/TI TLE
VM: Vulnerability Type/Family	/ASSET_DATA_REPORT/HOST_LIST/HOST/VULN_INFO_LIST/VULN_INFO/T YPE



Qualys Ticket Maps

V: QUALYS _TICKET_XML (v.2)

Import Mode: Qualys Online Report –Import Tickets

Unique ID: Ticket Number

Rsam Attribute	Path
Vulnerability - Qualys Tickets	/REMEDIATION_TICKETS/TICKET_LIST/TICKET
Ticket Number	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/NUMBER
Ticket Creation Date	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/CREATION_DATETIME
Ticket Status	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/CURRENT_STATE
Host IP Address	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/DETECTION/IP
Host Name - DNS	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/DETECTION/DNSNAM E
Date Discovered	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/STATS/FIRST_FOUND _DATETIME
Date Last Found	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/STATS/LAST_FOUND_ DATETIME
Last Scan Date	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/STATS/LAST_SCAN_D ATETIME
Vulnerability Name	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/VULNINFO/TITLE
Vulnerability Type/Family	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/VULNINFO/TYPE
Vulnerability ID	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/VULNINFO/QID
Severity - Native (numeric)	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/VULNINFO/SEVERITY
Reference - CVE	/REMEDIATION_TICKETS/TICKET_LIST/TICKET/VULNINFO/CVE_ID_LI ST/CVE_ID



Qualys High-Volume Import Maps

V: QUALYS_SUMMARY_XML (v.1)

Import Mode: Qualys Online Report –Import Vulnerabilities using Saved Reports **Unique ID**: Vulnerability ID + Port

Rsam Attribute	Path
Vulnerability - Qualys VM Summary	/SCAN/IP/VULNS/CAT/VULN
V: Vulnerability ID	/SCAN/IP/VULNS/CAT/VULN/number
V: Severity - Native (numeric)	/SCAN/IP/VULNS/CAT/VULN/severity
V: Vulnerability Name	/SCAN/IP/VULNS/CAT/VULN/TITLE
V: Category	/SCAN/IP/VULNS/CAT/value
V: Port	/SCAN/IP/VULNS/CAT/port
V: Protocol	/SCAN/IP/VULNS/CAT/protocol
V: Description	/SCAN/IP/VULNS/CAT/VULN/DIAGNOSIS
V: Risk	/SCAN/IP/VULNS/CAT/VULN/CONSEQUENCE
V: List of IP Addresses	/SCAN/IP/value
V: List of Machine Names	/SCAN/IP/name
V: Reference - CVE	/SCAN/IP/VULNS/CAT/VULN/CVE_ID_LIST/CVE_ID/ID
V: Reference - CVE URL	/SCAN/IP/VULNS/CAT/VULN/CVE_ID_LIST/CVE_ID/URL
V: Reference - Bugtraq	/SCAN/IP/VULNS/CAT/VULN/BUGTRAQ_ID_LIST/BUGTRAQ_ID/ID
V: Reference - Bugtraq - URL /SCAN/IP/VULNS/CAT/VULN/BUGTRAQ_ID_LIST/BUGTRAQ	
Exploit Source	/SCAN/IP/VULNS/CAT/VULN/VULN/CORRELATION/EXPLOITABILITY/ EXPLT_SRC
Fix/Resolution	/SCAN/IP/VULNS/CAT/VULN/SOLUTION



Knowledgebase Import Maps

V: QUALYS_KB_API (v.1)

Import Mode: Qualys Online Report v2 – Import KnowledgeBase

Unique ID: VM: Vulnerability ID

Rsam Attribute	Path
CVSS: CVSS Access	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Complexity (AC)	VSS/ACCESS/COMPLEXITY
CVSS: CVSS Access	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Vector (AV)	VSS/ACCESS/VECTOR
CVSS: CVSS	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Authentication (AU)	VSS/AUTHENTICATION
CVSS: CVSS Availability	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Impact (A)	VSS/IMPACT/AVAILABILITY
CVSS: CVSS Base Score	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VSS/BASE
CVSS: CVSS Confidentiality Impact (C)	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VSS/IMPACT/CONFIDENTIALITY
CVSS: CVSS Exploitability	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
(E)	VSS/EXPLOITABILITY
CVSS: CVSS Integrity	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Impact (I)	VSS/IMPACT/INTEGRITY
CVSS: CVSS Remediation	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Level (RL)	VSS/REMEDIATION_LEVEL
CVSS: CVSS Report	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Confidence (RC)	VSS/REPORT_CONFIDENCE
CVSS: CVSS Temporal	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Score	VSS/TEMPORAL
CVSS3: Attack	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Complexity (AC)	VSS_V3/ACCESS/COMPLEXITY

Appendix 1: Predefined Import Maps



Rsam Attribute	Path
CVSS3: Attack Vector	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
(AV)	VSS_V3/ACCESS/VECTOR
CVSS3: Availability	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Impact (A)	VSS_V3/IMPACT/AVAILABILITY
CVSS3: Confidentiality	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Impact (C)	VSS_V3/IMPACT/CONFIDENTIALITY
CVSS3: CVSS3 Base Score	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VSS_V3/BASE
CVSS3: CVSS3 Temporal	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Score	VSS_V3/TEMPORAL
CVSS3: Exploit Code	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Maturity (E)	VSS_V3/EXPLOITABILITY
CVSS3: Integrity Impact	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
(I)	VSS_V3/IMPACT/INTEGRITY
CVSS3: Privileges	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Required (PR)	VSS_V3/AUTHENTICATION
CVSS3: Remediation	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Level (RL)	VSS_V3/REMEDIATION_LEVEL
CVSS3: Report	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C
Confidence (RC)	VSS_V3/REPORT_CONFIDENCE
TVM: Vuln Software	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/S
Name	OFTWARE_LIST/SOFTWARE/PRODUCT
VM: Additional	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/
Vulnerability Information	DISCOVERY/ADDITIONAL_INFO
VM: Affected Products	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/V ENDOR_REFERENCE_LIST/VENDOR_REFERENCE/ID
VM: Authentication Type	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/ DISCOVERY/AUTH_TYPE_LIST/AUTH_TYPE



Rsam Attribute	Path
VM: Category	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C ATEGORY
VM: Description	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/ DIAGNOSIS
VM: Discovery Method	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/ DISCOVERY/REMOTE
VM: Exploit Source	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C ORRELATION/EXPLOITS/EXPLT_SRC
VM: Fix/Resolution	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/S OLUTION
VM: Malware Source	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C ORRELATION/MALWARE/MW_SRC/SRC_NAME
VM: Patch Available?	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/P ATCHABLE
VM: PCI Check	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/P CI_FLAG
VM: Reference - Bugtraq	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/B UGTRAQ_LIST/BUGTRAQ/ID
VM: Reference - Bugtraq - URL	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/B UGTRAQ_LIST/BUGTRAQ/URL
VM: Reference - Compliance	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C OMPLIANCE_LIST/COMPLIANCE
VM: Reference - CVE	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VE_LIST/CVE/ID
VM: Reference - CVE URL	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VE_LIST/CVE/URL
VM: Reference - General	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/V ENDOR_REFERENCE_LIST/VENDOR_REFERENCE/URL

Appendix 1: Predefined Import Maps



Rsam Attribute	Path
VM: Related CVE Entries	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C VE_LIST/CVE/ID
VM: Risk	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/C ONSEQUENCE
VM: Severity - Native (numeric)	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/S EVERITY_LEVEL
VM: Vulnerability Check Modify Date	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/L AST_SERVICE_MODIFICATION_DATETIME
VM: Vulnerability Check Publish Date	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/P UBLISHED_DATETIME
VM: Vulnerability ID	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/ QID
VM: Vulnerability Name	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/T ITLE
VM: Vulnerability Type/Family	/KNOWLEDGE_BASE_VULN_LIST_OUTPUT/RESPONSE/VULN_LIST/VULN/V ULN_TYPE



Compliance Import Maps

Compliance Results

V: QUALYS_PCM_API (v.1)

Import Mode: Qualys Online Report v2 –Import Compliance Scan Results **Unique ID**: Vulnerability ID + Host ID + DP Name

Rsam Attribute	Path
Vulnerability – Qualys PCM	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/
VM: Actual Result	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/EV IDENCE/DPV_LIST/DPV/V
VM: Date Last Found	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/P OSTURE_MODIFIED_DATE
VM: DP Description	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/GLOSSARY/DPD_LIS T/DPD/DESC
VM: DP Name	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/EV IDENCE/DPV_LIST/DPV/LABEL
VM: Evaluation	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/EV IDENCE/BOOLEAN_EXPR
VM: Host ID	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/H OST_ID
VM: Instance	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/IN STANCE
VM: Lookup Vulnerability KB Entry	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/C ONTROL_ID
VM: Qualys Status	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/ST ATUS
VM: Vulnerability ID	/POSTURE_INFO_LIST_OUTPUT/RESPONSE/POLICY/INFO_LIST/INFO/C ONTROL_ID



Compliance Controls

V: QUALYS_CONTROLS_API (v.1)

Import Mode: Qualys Online Report v2 –Import Compliance Controls

Unique ID: Vulnerability ID

Rsam Attribute	Path
Vulnerability Knowledgebase	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL
VM: Affected Products	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/TECHN OLOGY_LIST/TECHNOLOGY/NAME
VM: Category	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/SUB_CA TEGORY
VM: Description	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/STATE MENT
VM: Reference - General	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/FRAME WORK_LIST/FRAMEWORK
VM: Risk	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/TECHN OLOGY_LIST/TECHNOLOGY/RATIONALE
VM: Severity - Native (numeric)	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/CRITIC ALITY/VALUE
VM: Vulnerability Check Modify Date	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/UPDATE _DATE
VM: Vulnerability Check Publish Date	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/CREATE D_DATE
VM: Vulnerability ID	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/ID
VM: Vulnerability Name	/CONTROL_LIST_OUTPUT/RESPONSE/CONTROL_LIST/CONTROL/STATE MENT

Appendix 2: Qualys User Permissions

This section describes the excerpt of user roles and permissions for assets, vulnerabilities, compliance data, and knowledgebase from the Qualys APIv2 guide.

Importing Assets

The following table lists the user roles and their permissions for assets.

User Role	Permissions
Manager	View all scanned hosts in subscription
Auditor	View all scanned compliance hosts in subscription.
Unit Manager	View scanned hosts in user's business unit. To view compliance hosts, the Manage compliance permission must be granted to the user's account.
Scanner	View scanned hosts in user's account. To view compliance hosts, the Manage compliance permission must be granted to the user's account.
Reader	View scanned hosts in user's account. To view compliance hosts, the Manage compliance permission must be granted to the user's account.

Importing Vulnerabilities

The following table lists the user roles and their permissions for vulnerabilities.

User Role	Permissions
Manager	View all VM scanned hosts in subscription. Download all saved reports in subscription
Auditor	No permission to view VM scanned hosts.
Unit Manager	View VM scanned hosts in user's business unit. Download saved reports in user's business unit, including reports launched by the user and reports launched by other users in the same business unit.
Scanner	View VM scanned hosts in user's account. Download saved reports launched by the user.
Reader	View VM scanned hosts in user's account. Download saved reports launched by the user.

Importing Compliance Data

The following table lists the user roles and their permissions for compliance data.

User Role	Permissions
Manager	View all compliance controls. View all reports in subscription. View compliance postures for all hosts (IP address) in asset groups assigned to the selected policy.
Auditor	View all compliance controls. View all policy reports in subscription. View compliance postures for all hosts (IP address) in asset groups assigned to the selected policy.
Unit Manager	View all compliance controls. View reports in user's business unit, including reports launched by the user and reports launched by other users in the same business unit. View compliance postures for all hosts (IP address) in asset groups assigned to the selected policy, when the hosts are included in the user's business unit.
Scanner	View all compliance controls. View reports launched by the user. View compliance postures for all hosts (IP address) in asset groups assigned to the selected policy, when the hosts are included in the user's account.
Reader	View all compliance controls. View reports launched by the user. View compliance postures for all hosts (IP address) in asset groups assigned to the selected policy, when the hosts are included in the user's account.

Importing KnowledgeBase

The following table lists the user roles and their permissions for KnowledgeBase.

User Role	Permissions
Manager, Unit Manager, Scanner, Reader	Download vulnerability data from the KnowledgeBase.

Appendix 3: Qualys API Calls

This section outlines the number of API calls that Rsam makes for each action listed using the Qualys connectors. The total number of API calls made when setting up an import profile or scheduling the import is the sum of each action taken.

Action	Selection	# of API Calls
Selecting an Asset Group or Tag on any Import Profile Screen	Load asset group or tag screen = 1	1
Create New Map or Customize Map	Load data for map = 1	1
Preview Stats within map screen	Simulate import of data = 1	1
Import Hosts	Import data from map screen or scheduler = 1	2
Import Hosts using Tags	Import data from map screen or scheduler = 1	1
Import asset groups	Import data from map screen or scheduler = 1	1
Import Current Vulnerabilities	Import data from map screen or scheduler = 1	1
Import Using Saved Report	Select a saved report = 1 Import data from map screen or scheduler = 1	2
Import KnowledgeBase	Import data from map screen or scheduler = 1	1
Import Compliance Controls	Import data from map screen or scheduler = 1	1
Import Compliance Scan Results	Select a Policy = 1 Import data from map screen or scheduler = 1	2
Import Using Custom API Call	Import data from map screen or scheduler = 1	1
Import vulnerabilities using Templates	Selecting a Template = 1 Import data from map screen or scheduler = 1	2
Import vulnerabilities using Raw Data	Import data from map screen or scheduler = 1	1
Import Qualys Tickets	Import data from map screen or scheduler = 1	1

Appendix 4: Qualys Report Template Configuration

Qualys Saved Report

Saved reports are based on templates and can be configured as shown below:

New Scan Re	port	
Use the following for	m to create a new report on scan data.	
Report Details		
Title:	Confirmed Severity	
Report Template: *	Confirmed Severity 3 - 5	*k Select
Report Format: *	Portable Document Format (PDF)	
		Enter a name
Report Source		Select a template
Select at least one as	sset group or IP to draw data from.	Select the asset groups or IP
Asset Groups	Select	addresses
IPs/Ranges	199.47.221.232 * <u>Select</u>	
	Example: 192.168.0.87-192.168.0.92, 192.168.0.200	
Asset Tags	Include hosts that have Arry 👻 of the tags below. Add Tag	

After creating the report, you must run it on demand, or schedule it to run.

Report Options	
Scheduling	
	Run Cancel



Qualys Template

The most common approach used for importing vulnerabilities is using Qualys Templates. Templates and can be configured as shown below:

Edit Scan Report Templa	ite	Turn help tips: On Off Launch Help	
Report Title >	Configure the findings for this report template		
Findings >	Choose the host vulnerability data you would like to collect everytime	e this template is used.	
Display	We recommend "Host Based Findings" since it encompasses the latest vulnerability data from all of your scans, giving you the most comprehensive and up to date picture of your vulnerability status. This also allows you to include vulnerability and trend information in your reports.		
Filter >			
Services and Ports	Host Based Findings C Scan Based Findings		
User Access	Report on the most current vulnerability data for the host targets Include trending	selected in this template.	
1. Select Host Based Findings 2. Select asset groups to import	Choose Host Targets		
vulnerability data	Asset Groups All × Office × Home × Qualys-	Test × X O •	
	IPs/Ranges	*k Select	
	Example: 192.168.0.87-192.168.0.92, 192.168.	0.200	

To optimize your imports, it is recommended to filter the data returned from Qualys as opposed to filtering the data in Rsam.

Report Title	>	Selective Vulnerability Penarting		
Findings	>	Use Complete reporting to show results for any and all vulnerabilities found or use Custom to report on a selection of vulnerabilities.		
Display	>			
Filter	>	Complete Custom		
Services and Ports	>	⊗ Info Title	Add Lists	
User Access	>	😫 🍈 Severity 3 - 5	Clear All	
		⊗ Info Title	Select Search List to filter results for import	



Using a Search List to Filter on Vulnerabilities Imported			
New Dynamic Vulner	ability Search List		L
General Information	General Information		
List Criteria >	Title: * Severit:	/3-5	
Comments >	Owner.* Kevin D	ay (Manager: reatn_ixd1) 💌	
	New Dynamic Vulner	ability Search List	Launch Help
	General Information	User Modified :	Select a date 🛩
	List Criteria 💙	Published:	Select a date
	Comments	Confirmed Severity.	Level 1 Level 2 Level 3 Level 4 Level 5
		Potential Severity:	Level 1 Level 2 Level 3 Level 4 Level 5
		Information Severity:	Level 1 Level 2 Level 3 Level 4 Level 5



Report Title

Findings

Display

Filter

Appendix 4: Qualys Report Template Configuration

Edit Scan Report Template

 ate
 Turn help tips: On [Off Launch Help

 Report Summary
 Select the components to be included in the report's summary section.

 Summary of Vulnerabilities
 Text Summary

 Graphics
 Text Summary

Graphics Services and Ports Business Risk by Asset Group over Time Vulnerabilities by Severity over Time User Access Vulnerabilities by Status None of these options are Potential Vulnerabilities by Status required T Vulnerabilities by Severity Potential Vulnerabilities by Severity Information Gathered by Severity Top 5 Vulnerable Categories 10 Most Prevalent Vulnerabilities C Operating Systems Detected C Services Detected Ports Detected Leave Host as the sorting **Detailed Results** option Sorting Sort by: * Host Include the following detailed results in the report Text Summary Vulnerability Details Ensure all Vulnerability Threat Details and Appendix options Impact are selected. This ensures all vulnerability data is Solution included in the Qualys data Patches and Workarounds returned. Virtual Patches and Mitigating Controls Compliance Text summary is not Exploitability required. Associated Malware Results Appendix

Appendix 5: Rsam Documentation

Inline Help

To get familiar with the specific Rsam features used in this configuration, refer the Rsam Help, Rsam Administrator Help, or both. The Online help you can access depends on your user permissions.

Procedure:

- 1. Sign in to your Rsam instance. For example, sign in as Example Administrator user. Enter Username as **r_admin** and Password as **password**.
- 2. Mouse hover over **Help** and select an Online help in the menu that appears. Depending on your user permissions, you will be able to access the Rsam Help, Rsam Administrator Help, or both.

The following image shows the Rsam Administrator Help, opened from the Example Administrator user account.

