

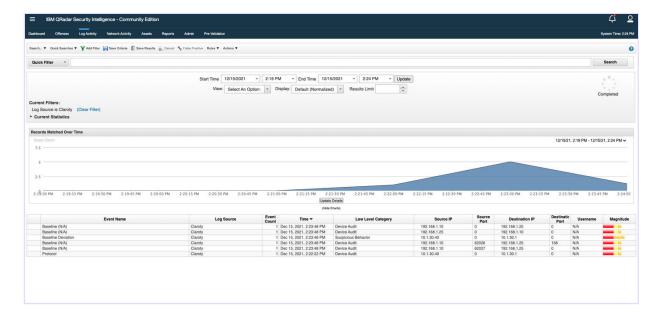


## 1. Solution Overview

The Claroty Continuous Threat Detection (CTD) add-on for IBM's QRadar delivers comprehensive security, visibility, and alert management capabilities for operational technology (OT) environments. This integration enables QRadar to automatically ingest OT events, alerts and traffic baselines from Claroty CTD.

Users can monitor all assets and potential threats in their OT environment on a single pane of glass in real-time, leading to more effective and efficient OT security monitoring and stronger OT security posture. Benefits include:

- Continuous monitoring of ICS and industrial network assets With a unified, real-time view into security threats targeting PLCs/RTs, embedded PCs, process control software and additional network assets, enterprises can identify threats early before they can impact their business.
- Single view for IT SOC teams to identify threats across both IT and OT environments -- enabling Companies to have a true enterprise view of all threats and risks across the business.



vent Information							
Event Name	Known Threat Alert						
Low Level Category	Security Event						
Event Description							
Magnitude	(7)	Relevance	9	Severity	7	Credibility	5
Username	N/A						
Start Time	Dec 15, 2021, 2:25:08 PM	Storage Time	Dec 15, 2021, 2:25:08 PM	Log Source Time	Dec 15, 20	21, 2:25:08 PM	
Alert Category (custom)	Create						
Alert Reference ID (custom)	N/A						
Alert URL (custom)	https://10.203.217.249:5000/alert/1393229-76						
CVE Reference (custom)	N/A						
CVE Score (custom)	N/A						
Claroty Event ID (custom)	1393229						
ClarotyCPU (custom)	NA NA						
ClarotyMemory (custom)	N/A						
ClarotyUsedOPT (custom)	N/A						
Destination Asset Type (custom)	N/A						
Destination Host (custom)	WTSG00300025D						
Destination User (custom)	N/A						
Destination Zone (custom)	AV Server: Other						
Event Request (custom)	https://10.203.217.249:5000/alen//1393229-76						
File Path (custom)	N/A						
Frequency (custom)	N/A						
Message (custom)	Known Threat: Threat Claroty Rule: Wannacry - IPC request to 192.168.56.20 (Hardcoded wann	acry ip) detected was detected f	rom 10.228.7.119 to 10.184.22.107				
Network (custom)	Default						
NonPrimary Asset Hostname (custom)	WTSG00300025D						
NonPrimary Asset IP (custom)	10.184.22.107,169.254.56.218						
NonPrimary Asset MAC	6c:4b:90:2d:92:b0						



# 2. Setup and Configure

### 2.1. CTD Prerequisites

CTD Version 4.2.4 or later

### 2.2. QRadar Prerequisites

QRadar Version 7.3.3 or above

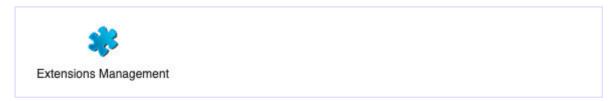
### 2.3. Setup Instructions

#### 2.3.1. The DSM

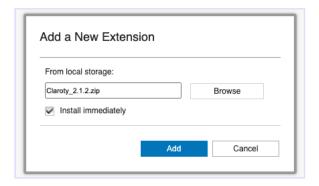
- IBM® QRadar® uses the Device Support Modules (DSMs) to log and correlate the data that is collected from external log sources, such as firewalls, switches, or routers. DSMs are regularly updated to ensure that QRadar can correctly interpret and parse security event information that is provided by external devices.
- DSMs can be updated both automatically from IBM's AppExchange and manually.
- This DSM integration supports both CTD's legacy CEF and the new CEF structure.
- See the FAQ (page 15) for the log types supported.

### 2.3.2. Installing the Claroty DSM in QRadar

- Download the DSM .zip file from the IBM App Exchange, IBM X-Force Exchange.
- 2. In QRadar under the **Admin** tab go to **Extensions Management**:

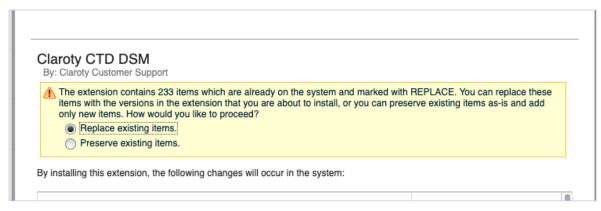


- 3. Click Add.
- 4. Select the .zip file and select the **Install immediately** checkbox, then click **Add**:





5. If you get a message like the following, select **Replace existing items**:



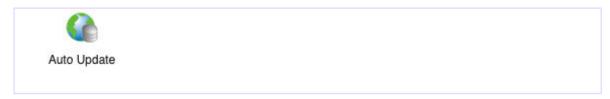
6. Follow the wizard to complete the installation.

#### 2.3.3. Updating the Claroty DSM Version

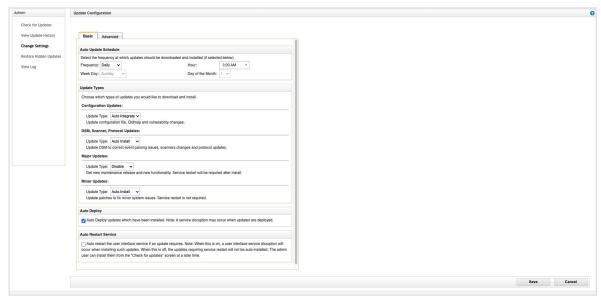
Either set all of your DSMs to be updated automatically or manually update the DSM by downloading the new version from the IBM App Exchange and following the Installing the Claroty DSM in QRadar (page 4) instructions.

To update automatically:

1. In QRadar go to Admin > Auto Update:



- 2. Click on the **Change Setting > Basic** tab.
- 3. Under **DSM > Scanner > Protocol Updates**, select **Auto install**:



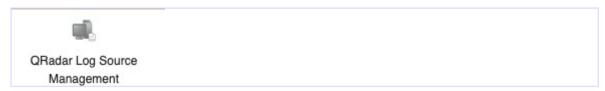
4. Select Save.



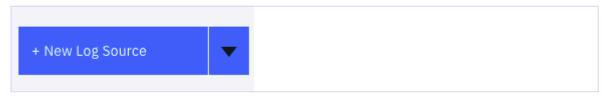
### 2.3.4. Setting up the Connection in QRadar

#### 2.3.4.1. Using the QRadar Log Source Management App

1. On the main dashboard go to **Admin** -> **QRadar Log Source Management**:



2. Click on **New Log Source**:



- 3. Select Single Log Source.
- 4. Search for **Claroty** and click on **Step 2**:



5. Select **Syslog** and click on **Step 3**:



6. Give this source a name and click on **Step 4**:

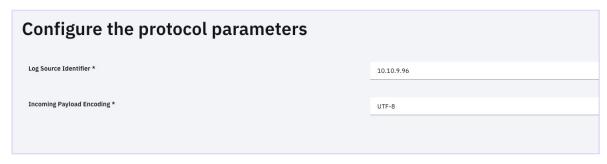


7. Select **ClarotyCustom\_ext** as the Extension:

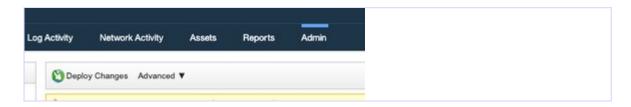




8. Type your EMC IP address in the **Log Source Identifier** field and click on **Finish**:



Go back to the **Admin** page and click on **Deploy Changes** to deploy the new changes:



#### 2.3.4.2. Using Log Sources

1. On the main dashboard go to **Admin > Log Sources**:

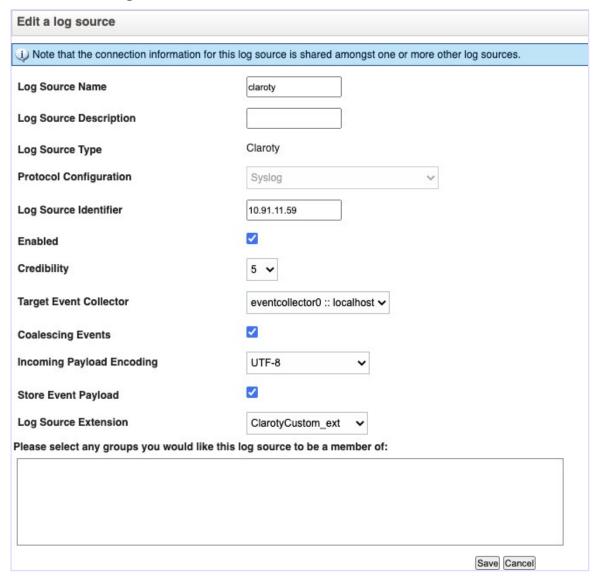


2. Click on Add:

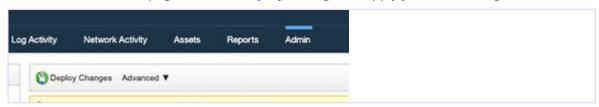




3. Fill in the Edit a Log Source fields:



- a. Log Source Name A given name for this source
- b. Log Source Type Must be Claroty
- c. Protocol Configuration Set to Syslog
- d. Log Source Identifier Enter the IP address of the EMC machine
- e. Log Source Extension Select ClarotyCustom\_ext
- f. Click **Save**.
- 4. Go back to the **Admin** page and click **Deploy Changes** to apply your new changes:

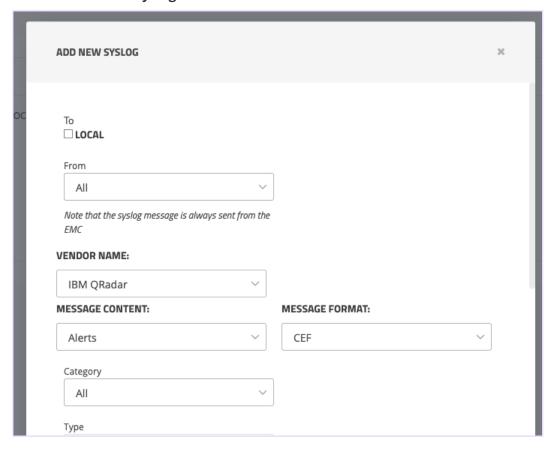


### 2.3.5. Setting up the Connection in the CTD EMC

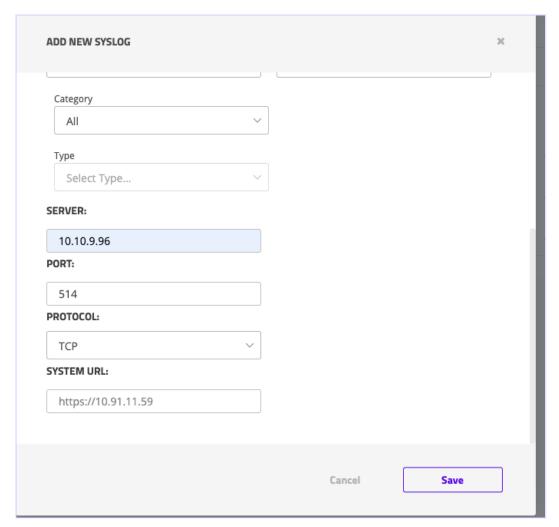
1. In the CTD EMC, click on the gear icon and then Integrations > SIEM Syslog.



- 2. Click on the + Add icon.
- 3. Fill in the Add New Syslog details and click Save:







- a. To Unselect the Local checkbox
- b. From Select All or specify the sites from which data will be sent
- c. Vendor Name Select IBM QRadar
- d. **Message Content** Select the data type to be sent (one option only)
- e. Server The IP of the QRadar machine
- f. Port Enter 514
- g. Protocol Select TCP/UDP



#### **IMPORTANT**

TCP is the recommended protocol.

4. Click Save.

# 2.4. Displaying the Data

After you have installed or updated the Claroty DSM, created two way connection between QRadar and CTD and have deployed the changes, your data mapping is ready.

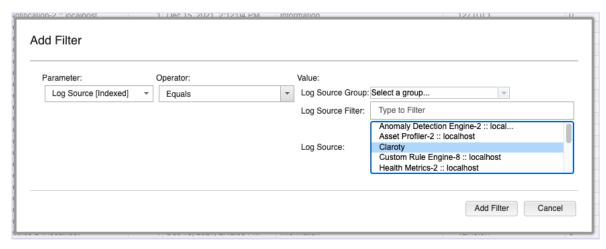


#### Go to **Log Activity** and create a new filter as follows:

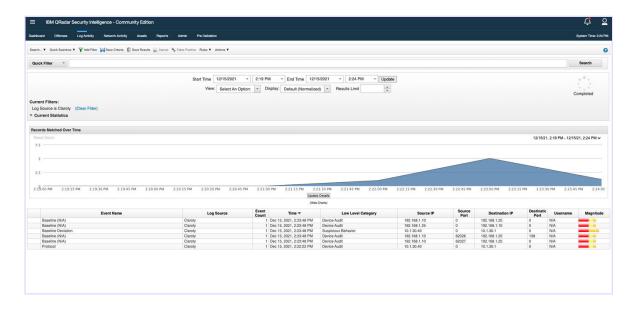
1. Click on Add Filter:



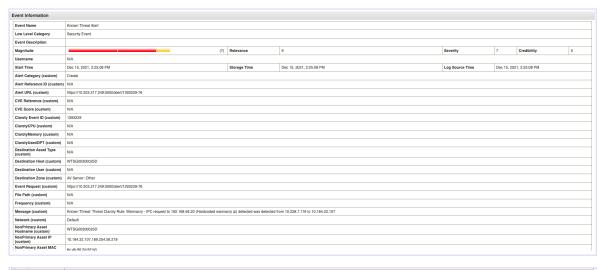
2. Select **Log Source [Index]** as the Parameter:



- 3. Select the log source name that you defined in the Log Source Management app as the Log Source.
- 4. Click on **Add Filter** again.
- 5. Select the relevant time interval for your search and you should see the mapped data:



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(custom)	6-46,902.092.00
NonPrimary Asset OS (custom)	Windows 10
NonPrimary Asset Type (custom)	AV Server
NonPrimary Asset Vendor (custom)	LINON
Outcome (custom)	Unresolved
Primary Asset Hostname (custom)	NA
Primary Asset IP (custom)	10.228.7.119
Primary Asset MAC (custom)	NA
Primary Asset OS (custom)	N/A
Primary Asset Type (custom)	Endpoint
Primary Asset Vendor (custom)	N/A
Request (custom)	https://10.203.217.249.5000/alent/1393229-76
Resolved As (custom)	Unresolved
Rule Name (custom)	N/A
Score (custom)	100
Service (custom)	N/A
Site (custom)	EAJP_SG_SINGAPORE-DC
	76
Source Asset Type (custom)	NA
Source Host (custom)	N/A
Source Zone (custom)	Endpoint: Other - External
Status (custom)	N/A
Story (custom)	144,997
Threat Signature (custom)	Claroty Rule: Wannacry - IPC request to 192.168.56.20 (Hardcoded wannacry ip) detected
Domain	Default Domain

Source and Destination Info	ormation		
Source IP	10.100.238.149	Destination IP	10.184.22.107
Source Asset Name	N/A	Destination Asset Name	N/A
Source Port	0	Destination Port	0
Pre NAT Source IP		Pre NAT Destination IP	
Pre NAT Source Port	0	Pre NAT Destination Port	0
Post NAT Source IP		Post NAT Destination IP	
Post NAT Source Port	0	Post NAT Destination Port	0
Source IPv6	0.000.0000	Destination IPv6	0:0:0:0:0:0:0:0
Source MAC	00:00:00:00:00	Destination MAC	6C:4B:90:2D:92:B0

Zero field

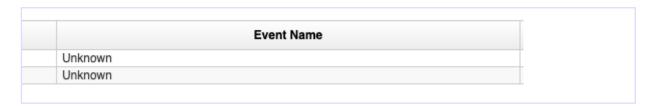
221-46-14 St21441,341 [UMBING] [Indifications] 140191440782721 Agr 28 1012744 [EMMERCIAN3] CIF-0[clarcy]CD[4,1.3]Alert[Room Threat Alert[5] [caliabel-sixed cal-74 cellabel-sixed cal-74 c



# 3. Troubleshooting

### 3.1. Message Event Name is Unknown

If the message event name is unknown as is shown below:



- Make sure you correctly defined the connection between QRadar and your EMC:
  - Claroty is selected as the Log Source Type
  - The current identifier of your EMC is correct
  - ClarotyCustom\_ext is selected as the Log Source Extension
- Make sure you click on the **Deploy Changes** button after setting up the connection in your QRadar machine:

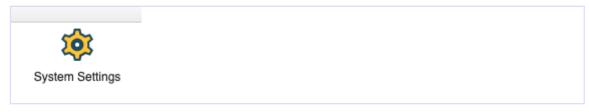


### 3.2. Syslog Message was Split into Parts

If the Syslog message was split into parts as follows:



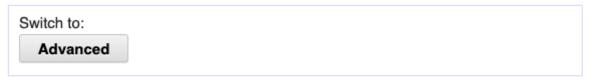
- Make sure your select TCP over UDP as the Protocol when you define the connection in your EMC
- You may need to increase the size of the TCP payload you allow on your QRadar machine:
  - 1. In your QRadar machine, go to the **Admin** tab.
  - 2. Click on the **System Settings** icon:





CTD - QRadar Installation Syslog Message was Split into Parts Guide

3. Click on the **Advanced** button:



4. Click on **System Settings**:

System Settings

5. Look for **Max TCP Syslog Payload Length** and increase the length as needed:





# 4. FAQ & Reference

**Q:** What CTD data can be sent via Syslog?

A: The following entities are supported:

Log Type	CEF - Legacy	CEF - New
Alerts	Yes	Yes
Events	Yes	Yes
Baseline	Yes	No
Health Monitoring	Yes	No

Which DSM Event QRadar Identifier (QIDs) are supported? Q:

A: The following QIDs are supported:

	Event	QID
Protocol		1002500003
Baseline De	eviation	1002500031
Firmware D	Download	1002500033
Configurati	ion Download	1002500028
Baseline (N	I/A)	1002500035
Known Thr	eat Alert	1002500025
Configurati	ion Upload Alert	1002500026
New Entity		1002500023
Asset Infor	mation Change	1002500024
New Asset		1002500019
New Confli	ct Asset	1002500015
Entity Conf	lict	1002500016
Known Thr	eat Event	1002500012
Health Che	ck ("HealthCheck")	1002500013
Login Even	t	1002500010
Alert Login		1002500011
Sniffer Stat	rus	1002500008
Alert Port S	Scan	1002500027
Event Port	Scan	1002500029
Alert Host S	Scan	1002500022
Event Host	Scan	1002500020
Site Status		1002500021
Suspicious	File Transfer Event	1002500017
Suspicious	File Transfer Alert	1002500018
+	<b>NOTE</b> The Policy Violation Education Alert both ha	-
Policy Viola	ition Event	1002500014
Policy Viola	ition Alert	1002500014