



**NOZOMI**  
NETWORKS

**Nozomi Networks**  
**QRadar App**  
User Manual

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# Technical information

## Product details

- version: 2.0.0
- release date: Oct 2019

## Prerequisites

- minimum QRadar version: 7.3.0
- supported browsers: Firefox (verified on 59.0), Chrome (verified on 66.0), Internet Explorer (verified on 11.0)

## Installation

1. download the extension from <https://exchange.xforce.ibmcloud.com/hub/>
2. in QRadar go to the Admin tab
3. click on Extensions Management
4. click on Add and upload the zip you downloaded using the extensions management console, overwrite any existing custom properties
5. add a new log source as per the screenshot below

Log Sources

Not Secure | [https://\[redacted\]/console/do/sem/maintainSensorDevice](https://[redacted]/console/do/sem/maintainSensorDevice)

Add a log source

Log Source Name: Nozomi

Log Source Description:

Log Source Type: Nozomi Networks SCADAguardian

Protocol Configuration: Syslog

Log Source Identifier:

Enabled:

Credibility: 5

Target Event Collector: eventcollector0 :: LAB-IBM-Qradar

Coalescing Events:

Incoming Payload Encoding: UTF-8

Store Event Payload:

Log Source Language:

Log Source Extension: Select an Extension...

Extension Use Condition: Parsing Enhancement

Please select any groups you would like this log source to be a member of:

Save Cancel

## Custom properties

The following screenshot highlights the custom properties that will be added to your Qradar installation.

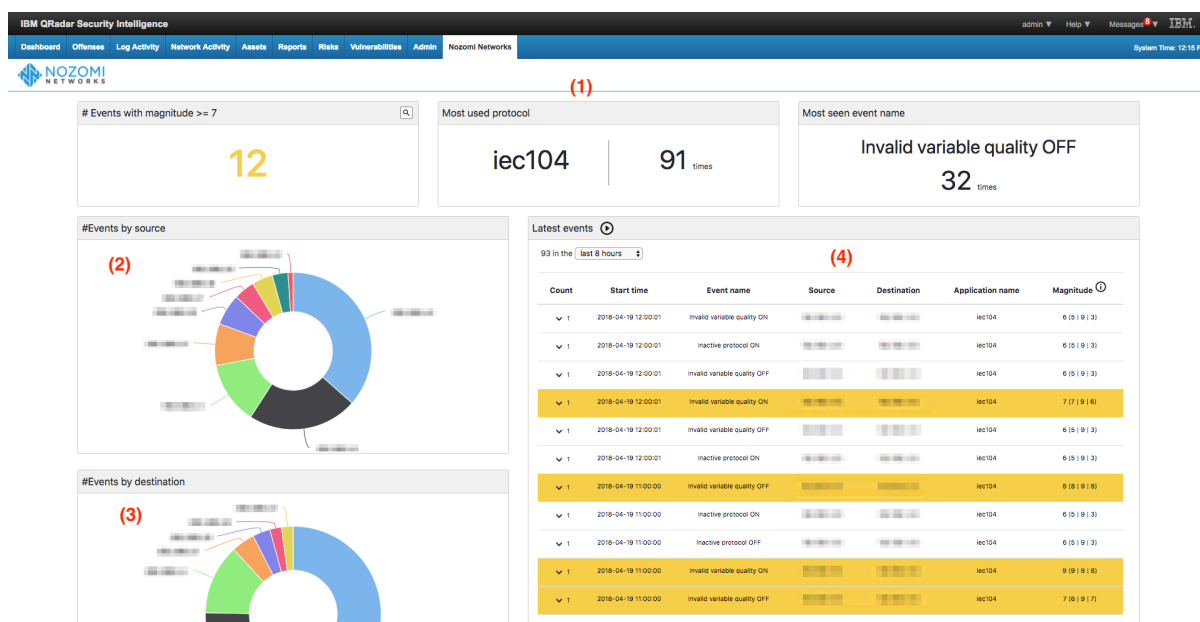
Property Name	Type	Property Description	Log Source Type ▼	Log Source	Event Name	Category	Expression	Username
EventName	Regex	Nozomi Event Name	Nozomi Networks SCADAguardian	N/A	N/A	N/A	EventName=([^\u0009]+)	admin
Type ID	Regex	Nozomi Type ID	Nozomi Networks SCADAguardian	N/A	N/A	N/A	N2OS\(\S+\)\(\S+\)	admin
Application name	Regex	Nozomi Application Name	Nozomi Networks SCADAguardian	N/A	N/A	N/A	Protocol=(\S+)	admin
Event Summary	Regex	Nozomi Event Summary	Nozomi Networks SCADAguardian	N/A	N/A	N/A	description=(.+)	admin

# Overview

Nozomi Networks QRadar App helps you understand when a threat is happening and drill down to the possible causes with a couple clicks. By leveraging the simple user interface you will be able to understand what's going on with a simple glance.

With its live streaming dashboard Nozomi Networks QRadar App shows

- a header at the top (1)
- a pie chart containing events grouped by source (2)
- a pie chart containing events grouped by destination (3)
- events (limited to 5000) coming from Nozomi Networks Guardian, last records will appear at the top (4).



## Header: important information at first glance

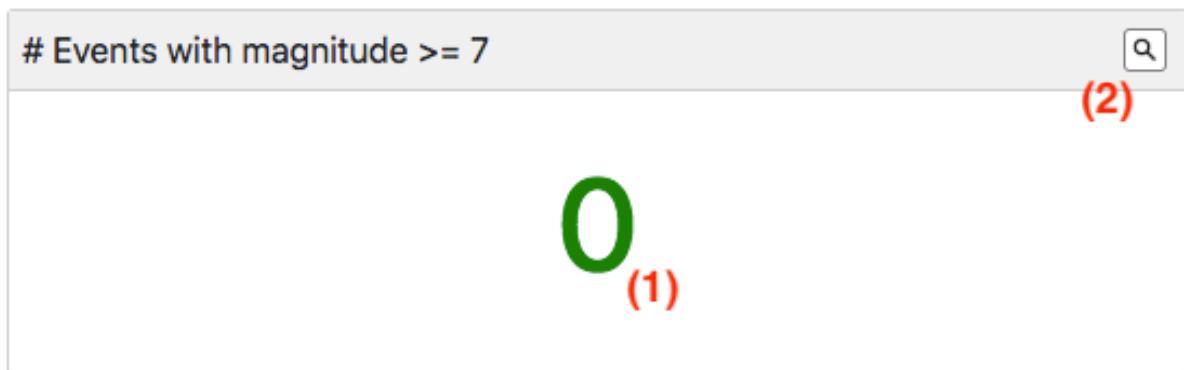
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We've crafted the header with attention to the details that matter the most, you will be able to spot if there's a peak in a certain protocol usage, or if you are getting lots of troublesome events; here's what you'll find:

- number of events with a magnitude greater or equal than 7
- most used protocol along with the times it was seen
- most seen event name along with the times it was seen



When events with magnitude greater or equal than 7 start appearing, the total (1) will turn to yellow; you can see those events by clicking on the magnifying lens (2).



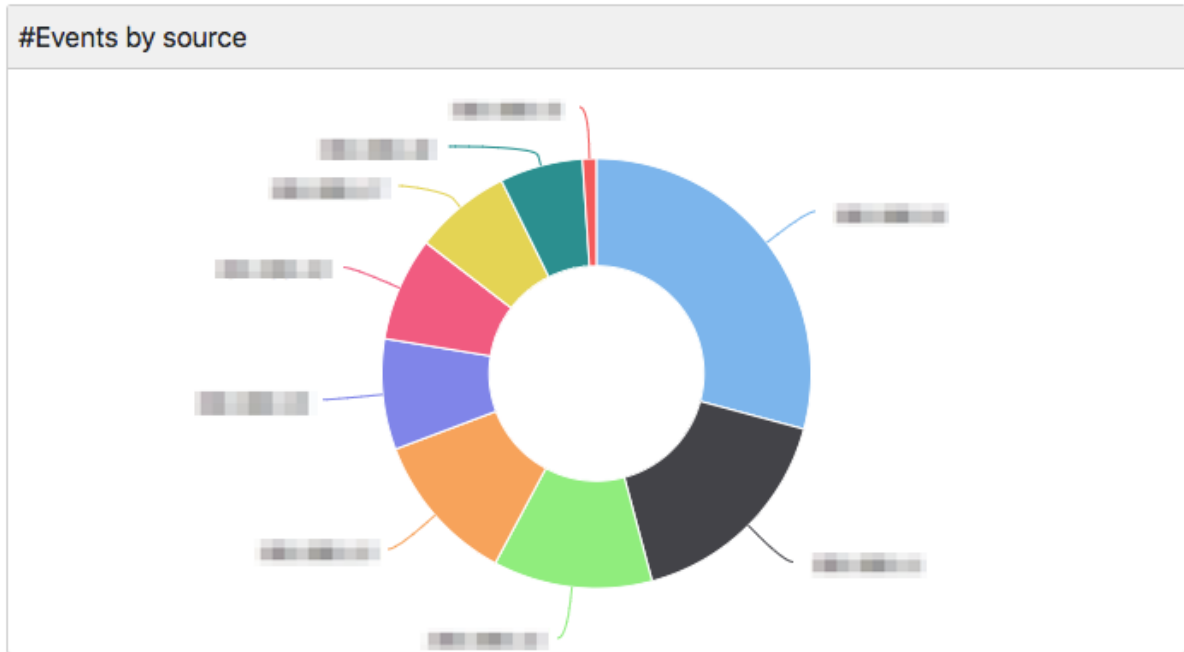
## In detail

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These widgets will help you drill down towards the problem.

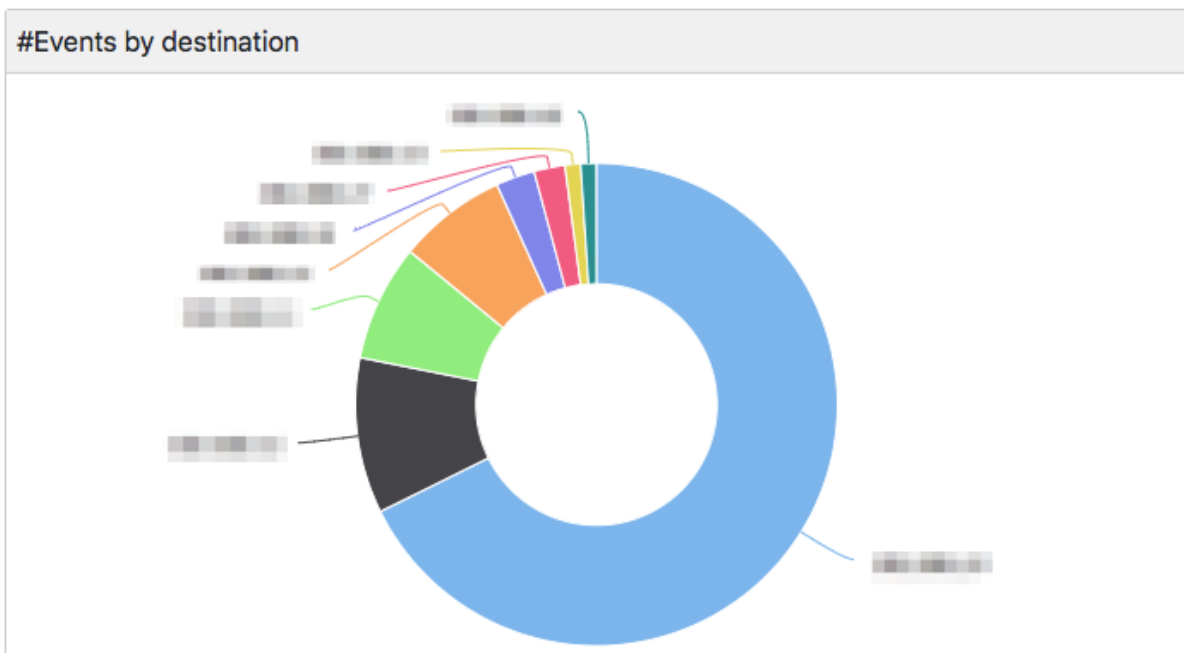
### Events by source

Events grouped by source IP. Click on a slice to filter events by that IP.



### Events by destination

Events grouped by destination IP. Click on a slice to filter events by that IP.



## Events list

These events are filtered to contain just those coming from Nozomi Networks Guardian, last events appear at the top. QRadar assigns to each event a magnitude, you will see it highlighted in yellow (1) if the magnitude is 7 or greater.

We're constantly updating the events coming into QRadar, however you can pause the stream of events by clicking on the pause / unpause button (2), this is particularly useful if you want to have a look at the event summary of the event (4) (click on an event to show it), or just calmly look at the list without it being refreshed. Press the button again to resume the stream. Click on the dropdown list (3) to define the time window for your events.

Count	Start time	Event name	Source	Destination	Application name	Magnitude ⓘ
1	2018-04-18 05:00:01	Inactive protocol OFF			iec104	6 (5   9   3)
1	2018-04-18 05:00:01	Inactive protocol ON			iec104	7 (7   9   7)
1	2018-04-18 05:00:01	Invalid variable quality ON			iec104	6 (5   9   3)
Event summary: [blurred]						
1	2018-04-18 04:47:11	Invalid variable quality OFF			iec104	6 (5   9   3)
1	2018-04-18 04:32:56	Slave sent RST on Link			iec104	8 (7   9   8)
1	2018-04-18 04:11:46	Invalid variable quality ON			iec104	6 (5   9   3)
1	2018-04-18 03:53:33	Inactive protocol ON			iec104	6 (5   9   3)

Events shown in this list will be limited to 5000





# Rules

Nozomi QRadar App includes a set of rules that trigger offences in case some incident events are received.

Rule Name ▲	Group	Rule Category	Rule Type	Enabled	Response	Event/Flow Count	Offense Count	Origin	Creation Date	Modification Date
INCIDENT:ANOMALOUS-PACKETS		Custom Rule	Event	True		0	0	User	Aug 26, 2019, 14...	Jul 31, 2019, 10:2...
INCIDENT:BRUTE-FORCE-ATTACK		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 21...	Jul 31, 2019, 10:2...
INCIDENT:ENG-OPERATIONS		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 23...	Jul 31, 2019, 10:2...
INCIDENT:FUNCTION-CODE-SCAN		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 23...	Jul 31, 2019, 10:2...
INCIDENT:ILLEGAL-PARAMETER-SCAN		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 22...	Jul 31, 2019, 10:2...
INCIDENT:INTERNET-NAVIGATION		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 14...	Jul 31, 2019, 10:2...
INCIDENT:NEW-COMMUNICATIONS		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 12...	Jul 31, 2019, 10:2...
INCIDENT:NEW-NODE		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 21...	Jul 31, 2019, 10:2...
INCIDENT:PORT-SCAN		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 21...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-FLOW-ANOMALY...		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 14...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-FLOW-ANOMALY.S...		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 23...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-NEW-VALUES		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 2.3...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-NEW-VARS		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 2.3...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-NEW-VARS:MASTER		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 2.2...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-NEW-VARS:SLAVE		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 2.4...	Jul 31, 2019, 10:2...
INCIDENT:VARIABLES-SCAN		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 2.2...	Jul 31, 2019, 10:2...
INCIDENT:WEAK-PASSWORDS		Custom Rule	Event	True		0	0	User	Sep 13, 2019, 1.4...	Jul 31, 2019, 10:2...

Most Severe Offenses	
Offense Name	Magnitude
<u>INCIDENT:VARIABLES-NEW-VARS:MASTER</u>	
<u>INCIDENT:NEW-COMMUNICATIONS</u>	
<u>INCIDENT:VARIABLES-FLOW-ANOMALY:MASTER</u>	
<u>INCIDENT:VARIABLES-NEW-VALUES</u>	
<u>INCIDENT:NEW-NODE</u>	

# Assets

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Nozomi QRadar App inject through `asset info events assets` object into QRadar environment to improve your asset visibility.

Only from version 19.0.2, N2OS provides assets information to QRadar.

Assets		
Id	IP Address	Asset Name
<a href="#">1001</a>	<a href="#">172.20.65.22</a>	an_asset_name
<a href="#">1002</a>	<a href="#">172.20.64.24</a>	an_asset_name_new

## Troubleshooting

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If you don't see any data in Nozomi Networks QRadar App make sure you are sending events to QRadar. You might also want to try and set the time window to a more recent value.

After an update of the Nozomi Networks QRadar App could be necessary to re-configure the `log-source`

To get help from us send an email at [support@nozominetworks.com](mailto:support@nozominetworks.com), stating your problem and any detail that could help us solve the issue, please also attach `/var/log/qradar.error`. There might be also some information in your browser's console, please send that along too making sure all of the error is clearly visible and actionable.