# **New Relic Integration**

## **About The Integration**

Gigamon GigaVUE Cloud Suite enables collection of network traffic from every instance across the entire cloud solution. Customers can then choose to either centralize the traffic for network metadata generation for New Relic or choose to do so in a distributed fashion.

This integration provides a way to collect metadata of over 7,000 network traffic-related attributes and export that to New Relic dashboard for holistic overview of cloud environment, and a much deeper level of security-related inspection.

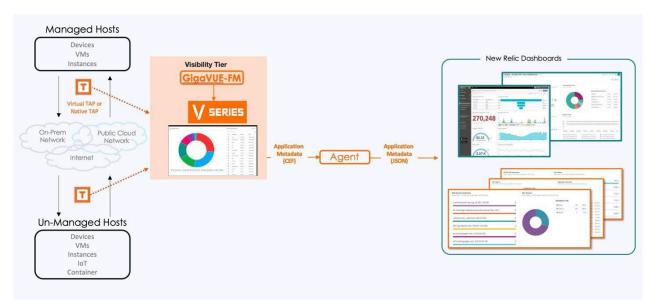


Figure 1. GigaVUE Cloud Suite: Capture all traffic and export metadata of interest to New Relic.

#### **Components Involved**

- Gigamon GigaVUE Cloud Suite
- Gigamon Application Metadata Intelligence (AMI)
- Gigamon Application Metadata Exporter (AMX)
- New Relic account



#### How to configure AMI

- 1. Go to Traffic -> Solutions -> Application Intelligence
- 2. Click on Create New -> Select the Environment

Create Applicat	ion Intelligence S	ession	
Basic Info			
		Environment	
Name	/ 128	Virtual	
Environment Info			
Environment Name	Connection Name		
Configurations			
Export Interval			
60	secs Manage	ment Interface	
Must be between 60-900			

3. Select the source from where the traffic has to be tapped.

Source Traffic					
Source Selector	O Tunnel Specification	Raw Endpoint			
Splunk-test $\times$					
				Expand All	Collapse All
Name	Filter Id	Filters	Operator	Values	$\oplus$
✓ Splunk-test					
	1	VmName_Src	startswith	ubuntu	

#### 4. Select Application Metadata

- Tool IP Address should be AMX ingress IP Address.
- L4 Src & Dest port.
- Using Advanced settings, you can also select any specific applications and its attribute to be exported.

Destination Traffic         Choose the existing tools to receive application-specific traffic or add new tool.         > EXPORTER 1         Text Nome*       L4 Severa Plon*         ELK-tooLymwareEsrif       1722 16.102.151         Template       *         Application List       App Editor         > 11 Applications						n Metadata	Application	Deduplication	Application Filtering
V BPORTER 1           Ted Name*         Lid Destination Flort*           ELXF. tool_symwareEssi         172.16.102.151           Templatei         *           Application List         App Editor							ew tool	olication-specific traffic or add p	
ELK-tool_xmwareExit         172.16.102.151         Template:         ¥         23384         514           Application List         App Editor         K         Application List         Application List								season specific startie of day in	-
Application List App Editor	<u>Save</u> ()				L4 Destination Per	L4 Source Port*		Address *	Tool Name*
					514	23384	ate	16.102.151 Temp	ELK-tool_vmwareEsxi 172.
									Application List App Editor
FORMAT RECORDITEMPLATE TYPE ACTIVE TIMEOUT* INACTIVE TIMEOUT*			INACTIVE TIMEOUT*		ACTIVE TIMEOUT*		PLATE TYPE	RECORD/TEM	FORMAT
CEF         Cohesive         60         sets         15         sets		Secs	15	SOCS	60			Cohesive	CEF *
> Advanced Settings									➤ Advanced Settings
	Save 👔								

5. Click Save and then Deploy.

## How to configure AMX and integrate with New Relic

How to Bring up AMX from FM

1. Create Monitoring Domain:

Inventory > Virtual > Select the Environment > Create Monitoring Domain

Monitoring Domain	Connections	Name	Management IP	Туре	Version 🚳
ELK-Test					
	ELKTest				
		VSeries-OGW10-115-81-	10.115.86.55	V Series Node	6.2.00

2. Create Monitoring Session:

Traffic > Orchestrated Flows (select the right environment) > Create Monitoring Session

- Create REP from AMI to AMX(OGW) and AMX(OGW) to New Relic (REP-Raw End Point which is an IP Address)
- Ingress to AMX(OGW) will be from AMI
- Egress from AMX(OGW) should be pointing to New Relic IP Address
- As shown in below snapshot select the cloud tool as New Relic with the right Account ID and API Key.

X AMI Exporter: ogw	Details Thresholds	Save
Application Alias*	AMI Exporter <b>0</b>	
Cloud Tool Ingestor Port	514	
✓ ogwforNewRelic     Alias*     Cloud Tool*	ogwforNewRelic	
Account Id* API Key*	Enter ID used with New Relic account Enter API key	
MORE OPTIONS Enable Export Format	Nozi	
Zip Interval (sec) <b>()</b> Parallel Writers	30 4	•
Export Retries Max Entries Labels	4 1000 Add	
	Key eventType X Value Entervalue	

3. Deploy the Solution.

#### raw1 > Interface connecting AMI raw2 > Interface connecting New Relic

Select no	odes to deploy the Monit	oring Session: forEl	LKOGW	
	V Series Node Name		Status	$\oplus$
	VSeries-OGW10-115-8	1-119-toELK	ОК	
[<	Go to page: 1	• of 1 >	>  Total	Records: 1
✔ VSer	ies-OGW10-115-81-119-t	oELK		
raw-1		Select an interface		v
raw-2		Select an interface		¥
				Deploy Cancel

## How to create an API Key From New Relic page

- 1. Reference Link: To Generate API Key
- 2. Click User ID > API Keys > Create a Key

🕥 new relic	Administration	0
Q. Search + Add Data	Create and manage API keys for your organization.	API key types Ingest keys are for getting data into New Relic:
All Capabilities     All Entities	Q. Search keys by account, type, value, etc. 1-43 of 43 <	<ul> <li>License keys for agent configuration and metric, event, log and trace APIs</li> <li>Browser keys for browser applications</li> <li>Mobile keys for mobile applications. To learn how to manage mobile keys, see our does C</li> </ul>
∷⊕ APM & Services ··· ⊡ Query Your Data	□ Acc 0 Type 0 Name 0 Value 0 Notes User 0	User keys are for querying data and managing configurations (Alerts, Synthetics, dashboards, etc.)
S Apps	Accou INGEST - LICENSE engsol 6a6d1683******* This is	Looking for other keys?
Browser	Accou USER User K NRAK-GYV*******	Soon you'll be able to manage all your keys from this new
🖭 Dashboards	Accou INGEST - LICENSE OA_NR 89718352********	<ul> <li>page (and with the API that powers it). Until then, you ca manage the key types we're still migrating from these locations:</li> </ul>
① Alerts & Al	Accou INGEST - LICENSE Syslog e4284b50******* Autom ···	• Insights insert keys
Errors Inbox	Accou INGEST - LICENSE Syslog 27e99402******* Autom	<ul> <li>Insights query keys L<sup>2</sup></li> <li>Mobile app tokens L<sup>2</sup></li> <li>REST API key L<sup>2</sup></li> </ul>
Hosts	Autom Autom	See our docs
다 Logs		,
G Mobile		
点 Synthetic Monitoring	bbe****** Autom ····	
	Invite a Teammate 322******* Autom ····	
	User Preferences 323****** Autom	
	API Keys )3e****** Manage Your Plan	
	245*******	
	Administration	
	View settings Theme New Light Dark Auto	
Discussions	NRQL Console Show Hide Daa*******	
⑦ Help 70	Manage Your Data T43*******	
🚯 Upgrade Now		

Create an API key	
Ingest keys are for getting data into New	v Relic:
<ul> <li>License keys for agent configurate event, log and trace APIs</li> <li>Browser keys for browser applicatio</li> <li>Mobile keys for mobile applicatio manage mobile keys, see our door</li> </ul>	ations ns. To learn how to
<b>User keys</b> are for querying data and mar (Alerts, Synthetics, dashboards, etc.) To learn more about API keys, see our do	-
Account	
Account: 1578679 - Demo	~
Key type	
Ingest - License	~
Name	
Gigamon AMI Integration	
Notes	
What do you want people to know about	ut this key?

Figure 2. Details about types of Keys and account information

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Once GigaVUE Cloud Suite is deployed in the environment it provides New Relic the ability to see all available applications communicating across the environment and collect metadata from that traffic.

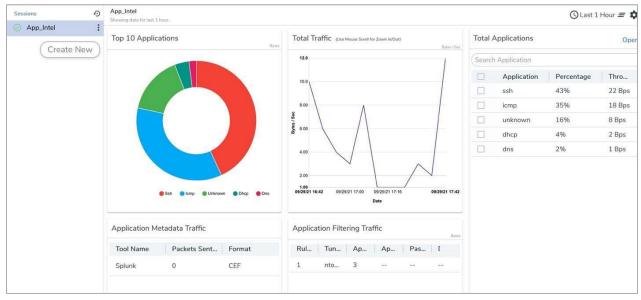


Figure 3. Screenshot of demo data in GigaVUE-FM. Note: Production environments will display hundreds of applications.

Different metadata elements can be selected based on an application, or a family of applications, and exported to Gigamon AMI Agent.

o Editor							×
> smb		61 of 134 attribute	s		Second Export		
> smtp		20 of 102 attribute	s		Export		
> ssh		23 of 25 attributes			Export		
∽ ssl		61 of 72 attributes			Export		
Filter Attributes							
Select All							Selected
Cert-ext-authority-key	Certificate-issuer-cn	Certificate-subject-key	Certificate-subject-street	Compression-method	🗹 Ext-sig-algorithm-sig	Parent-common-name	Server
Cert-ext-subject-key-id	Certificate-issuer-I	Certificate-subject-key	Cipher-suite-id	Content-type	Ext-sig-algorithms-len	Protocol-version	Sessio
Cert-extension-oid	Certificate-issuer-o	Certificate-subject-key	Cipher-suite-list	Declassify-override	Fingerprint-ja3	Request-size	Sessio
Cert-extension-oid-raw	Certificate-issuer-ou	Certificate-subject-key	Client-hello-extension-l	Ext-ec-point-formats-nb	Fingerprint-ja3s	Serial-number	Signal
Certif-md5	Certificate-issuer-st	Certificate-subject-key	Client-hello-extension	Ext-ec-point-formats-t	Handshake-type	Server-hello-extension	🖌 Subjec
Certif-sha1	Certificate-issuer-street	Certificate-subject-l	Client-hello-version	Ext-ec-supported-grou	✓ Index	Server-hello-extension	Suppo
Certificate-dn-issuer	Certificate-raw	Certificate-subject-o	Client-supported-version	Ext-ec-supported-grou	Super-	Server-hello-version	Validit
Certificate-dn-subject	Certificate-subject-c	Certificate-subject-ou	Common-name	Ext-sig-algorithm-hash	Nb-compression-meth	Server-name	Validit
					<b>T A </b>		-

Figure 4. The example shows SSL attributes available to be exported.

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Gigamon AMX collects metadata elements from Gigamon Cloud Suite and forwards them to New Relic Dashboard, where reporting and visualization can be performed in any number of ways. Here is a snapshot from New Relic dashboard page.

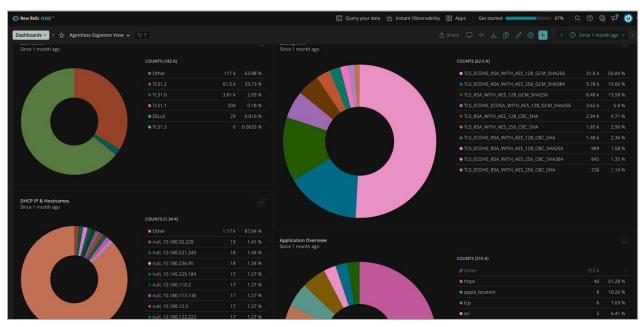


Figure 5. A sample dashboard created using AMI attributes from Gigamon.

Some of the sample queries are shown here used to build this dashboard, these can get as granular as needed.

FROM Gigamon SELECT count(\*) FACET version where event\_type ='ssl' FROM Gigamon SELECT count(\*) FACET cipher FROM Gigamon SELECT count(\*) FACET hostname,src\_ip where event\_type ='dhcp' FROM Gigamon SELECT count(\*) FACET application

Note: This integration will become more automated in the future where you will only need to provide the API key and endpoint to export data to New Relic.

To try this integration in your environment please reach out to <u>tme@gigamon.com</u>. If you would like to learn more about GigaVUE Cloud Suite, contact us at <u>gigamon.com/contact-sales</u>.