EMEA DevXchange 2017

Hands-On Lab: Integrate Network and Systems Discovery, Network Fault Management and Systems Management for Greater Efficiency

Sheenam Gupta, Principal Product Manager

10 May 2017





1	VALUE PROPOSITION
2	OVERVIEW AND ARCHITECTURE
3	WHAT'S NEW
4	USE CASES
5	QUESTIONS



Value Proposition

CA Spectrum Analytics Driven, Agile Monitoring For Today's Networks

Fault Management

CA Unified Infrastructure Management

Analytics Driven, Agile Monitoring For Today's Infrastructures

Performance Management

All lotses and the second second	

ma	Device	Primary Rola	
	a cobi-mangi-catol		
	CA-CPO-10011514-UIMDen-		
	A		
201			



© 2017 CA. All rights reserved.

Inventory Sync Overview

• Selective inventory sync from CA Spectrum to CA UIM through global collection **Bidirectional Sync and** • VMWare and virtual servers sync from CA UIM to CA Spectrum Correlation of • QoS metrics sync from CA UIM to CA Spectrum Inventory • Manage unreported inventory during the course of multiple syncs • CA Spectrum RCA leveraged for CA Spectrum and CA UIM alarms • Out-of-the-box condition correlation rules for physical and virtual Root Cause Analysis and Fault Isolation inventory Ability to create custom correlation domains • View and monitor network devices, physical servers and virtual servers Single Topology View within single pane of glass • Full sync **Configurable Sync** • Incremental sync Intervals • On demand sync



Inventory Sync



technologie

Inventory Sync





Alarm Sync Overview

Fault and performance alarms in single view

Flexibility to Select the **Direction of Sync Alarm Management Configurable Sync** Intervals

7

Bidirectional sync from CA UIM to CA Spectrum (default option) Sync from CA Spectrum to CA UIM Sync from CA UIM to CA Spectrum • For alarms originating at CA UIM or CA Spectrum through either of the solutions: Assign troubleshooter • Clear/acknowledge alarms • Ticket ID sync • Root cause alarms and symptomatic alarms sync to CA UIM • Full sync Incremental sync • On demand sync © 2017 CA. All rights reserved.





technologies

© 2017 CA. All rights reserved.

View Fault and Performance Alarms

Network and Infrastructure alarms are synced

Navigation 🦻	Contents: Un	verse of type Universe								
Users	Alarms T	opology List Events Informatio	on							
Locater			🗢 🖾 Ch 🖃							
Explorer			Ý 🥡 SII <u>·</u>							
	Filtered By	: Severity								
• • • •	Coverity	Data/Tima	Course V-	Name	Assign	Notwork Add	Coouro D	Type		Alarm Title
,24 /	Critical	Aug 19, 2016 1:39:59 PM IST	SPECTRUM	138.42.94		138.42.94.14	4 Directly N	4 WA_Lin	k 🗌	WIDE-AREA
	Critical	Aug 30, 2016 9:31:24 AM IST	SPECTRUM	10.10.10.0		10.10.10.0	Directly N	4 WA_Lin	k 📃	WIDE-AREA
	V Major	Aug 31, 2016 2:05:27 PM IST	SPECTRUM	name		138.42.94.90	Directly N	4 Catalyst		MANAGEMEN
	V Major	Aug 30, 2016 10:22:08 AM IST	SPECTRUM	jun2300-9	user1	138.42.94.14	Directly N	4 J2300		MANAGEMEN
	V Major	Aug 30, 2016 8:41:06 PM IST	SPECTRUM	Stack		138.42.94.13	4 Directly N	4 Summit		HIGH CPU U
	Major	Aug 21 2016 2+20+02 DM TCT	NIAC	vatac01-co				EvontM		The monitor
ome U InifiedServic	nified Dashboards 3 ceManager	K Reports Design Configur	ration		_			م مر Actions ▼	- +	×
nifiedServie	nified Dashboards ? :eManager :::: (0) (2) otal: 38	< Reports Design Configur	ration					Actions •	- +	×
inifiedServie InifiedServie Iarms Te	hiffed Dashboards) ceManager III (2) (2) otal: 38	Reports Design Configur Time • Y No Filter •	ration				•	Actions ▼	- + ? tions •	×
fiedServie fiedServie mms Te ck Filter	nified Dashboards 3 ceManager 	C Reports Design Configur	Message		Time	•	(I) Subsystem	Actions	- + ? tions •	×
ifiedServie arms Te lck Filter	nified Dashboards 3 ceManager iii (2) (2) otal: 38 (1) Host specrhei7template	Reports Design Configur	Message .GuestState on nvm 4	43 is outsid 8/31 5:19:4	Time 5 PM	• Mc	(i) Subsystem nitor	Actions V III III Act Count	- + ? tions ▼	×
arms Tellick Filter	illied Dashboards 2 ceManager illi (2) (2) ceal: 38 User Host specrhel7templat karja06-gns3.ca.c	Configur Time • Y No Filter • • The monitor specrhel/template. Image: Specific spec	Message .GuestState on nvm 4 stState on nvmqa-v o	43 is outsid outside exp 8/31 5:19:4	Time 5 PM 5 PM	▼ Mc Mc	Subsystem nitor nitor	Actions V	- + ? tions •	×
me U nifiedServie larms Te lack Filter	eManager EMAnager EMAnager EMANA Stal: 38 Host Specrhel7templatk Specrhel7templatk Aarja06-gns3.ca.c chumu01-esx4.ca	Configur Time • • • • The monitor specifiel/Template. • • The monitor karja06-gns3.Gues • • The monitor chumu01-ess4.ca.0 The monitor chumu01-ess4.ca.0	Message .GuestState on nvm 4 stState on nvmqa-vv o com.Status on nvm 42	43 is outsid outside exp. 8/31 5:19:4 13 is outside 8/31 5:19:4	Time 5 PM 5 PM 5 PM 5 PM	▼ Mc Mc Mc	Subsystem nitor nitor nitor	↓ Actions ↓ ↓	- + ? tions •	×
anne U nifiedServin Iarms To uick Filter & C f & C f C	Ilfied Dashboards 2 coManager Commentation commentation	Time • Y No Filter • • The monitor specrhel/template.	Message .GuestState on nvm 4 stState on nvmq=vv ocom.Status on nvm 4 estState on nvm	43 is outsid 43 is outsid 43 is outside exr 43 is outside 48/31 5:19:4 8/31 5:19:4 8/31 5:19:4	Time 5 PM 5 PM 5 PM 5 PM 5 PM	▼ Me Me Me Me	© Subsystem nitor nitor nitor nitor	Actions •	- + ? tions ▼	×
me U niffedServie arms Te arkk Filter \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	hiffed Dashboards (coManager iii) () () () cotal: 38 () () cotal: 36 () () () () () () () () () () () () () (Reports Design Configur Time • • No Filter • • The monitor specrhel/Itemplate. om The monitor karja06-gns3.Gues ccom The monitor chumu01-esk4.ca4 The monitor rates01-rh/12.due The monitor subs01-rh/12.due	Attack on nym 4 stState on nym 4 stState on nym 4 stState on nym 4 powerState on nym 4 powerState on nym 44	43 is outsid outside exr 13 is outsid 8/31 5:19:4 8/31 5:19:4 0.tside e 8/31 5:19:4 13 is outsid 8/31 5:19:4	Time 5 PM 5 PM 5 PM 5 PM 5 PM	▼ Мс Мс Мс Мс	© Subsystem nitor nitor nitor nitor nitor	► Actions ▼ 	- + ? tions •	×
me U iffiedService		Time Y No Filter m The monitor specrhel/template. m The monitor chumu01-esx4.ca. com The monitor chumu01-esx4.ca. com The monitor subva01-rh/u2.Gue The monitor subva01-w2k3-v2. The monitor compute.GuesiStat	Adversage GuestState on nvm 4 atState on nvm 4 estState on nvm 43 PowerState on nvm 44 te on nvma+vc:443 is butsid	43 is outsid outside exp 13 is outside utside exp utside expecte 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4	Time 5 PM	• Ma Ma Ma Ma Ma Ma Ma	Subsystem Altor nitor nitor nitor nitor nitor nitor nitor nitor	Actions • Actions • Count 14 14 14 14 14 14 14 14		×
arms To alarms To alck Filter Co Co Co Co Co Co Co Co Co Co Co Co Co	Ilfied Dashboards 2 SeManager Semanager Semanager Semanager Semanager Host Host Host Specrhel7templat Specrhel7templat Specrhel7templat Computer Specrhel7templat	Time Y No Filter The monitor specchel7template. The monitor specchel7template. om The monitor sabsol - m3.Gues com The monitor subsol - m3.U.Gues The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor subsol - M3.U.G.Gue The monitor SDN-starter-kit.Po	Message .GuestState on nvm 4 stState on nvmqa-vu oo com.Status on nvm PowerState on nvmb PowerState on nvmb 44 te on nvmqa-vc:443 is outsid werState on nvmqa-vc:443 is	43 is outsid outside exp 8/31 5:19:4 13 is outside 8/31 5:19:4 4/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 is outside 8/31 5:19:4 is outside 8/31 5:19:4 is outside 8/31 5:19:4	Time 5 PM 5 PM	• Мс Мс Мс Мс Мс Мс Мс Мс Мс Мс Мс	Subsystem nitor	Actions Action	- + ?	×
me U nifiedServin iti iti iack Filter \$\$ C 1 \$\$ \$\$ C 1 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	Inified Dashboards 2 Inified	Configur Time V No Filter V The monitor specifiel/Template. om The monitor subvall-w2.3Gue com The monitor subvall-w2.4Gue The monitor subvall-w2.4Gue The monitor solv-starter-k1.4Gue MANAGEMENT AGENT LOST MANAGEMENT AGENT LOST	Message GuestState on nvm 4. State on nvmqa-v com.Status on nvm estState on nvm PowerState on nvm 4. te on nvmqa-vc:443 is outsid werState on nvmqa-vc:443 is	43 is outsid outside exp 43 is outsid 43 is 5:19:4 43 is outsid 43 is 5:19:4 45:19:19:4 45:19:19:19:19:19:19:19:19:19:19:19:19:19:	Time 5 PM 5 PM 5 PM 5 PM 5 PM 6 PM	▼ Мс Мс Мс Мс Мс Мс	Subsystem nitor	€ Actions ▼		×
InfiedServin	hiffed Dashboards (comanager iii) () () () cotal: 38 () () chumu01-esx4.ca chumu01-esx4.ca chumu01-esx4.ca subva01-w2k3-v2 compute SDN-starter-kit name stack	Reports Design Configur Time • • • • The monitor specrhel7template. • • The monitor churu01-ess4.cad. • • The monitor churu01-ess4.cad. • • The monitor churu01-ess4.cad. • • The monitor subod1-w2k3-v2. • • The monitor subod1-w2k3-v2. • • The monitor subod1-w2k3-v2. • • The monitor SDN-starter-kit.Po • MANAGEMENT AGENT LOST HIGH CPU UTILIZATION •	Message .GuestState on nvm 4tState on nvmqa-v estState on nvm 4tState on nvm 4te on nvmqa-vc:443 is butsid werState on nvmqa-vc:443 is	43 is outsid outside ex; 3/31 5:19:4 43 is outsid 43 is outsid 5/31 5:19:4 43 is outsid 8/31 5:19:4 8/31 5:19:4 43 is outsid 8/31 5:19:4 43 is outsid 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4	Time 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 6 PM 6 PM 6 PM	▼ Mc Mc Mc Mc Mc Mc Mc	Subsystem nitor	► Actions ▼		×
anne U InifiedService Larms Te alarms Te alarms Ce the the the the the the the the the th	Ilfied Dashboards 2 Image: Image: Im	Time Y No Filter The monitor specrhel/ttemplate. The monitor specrhel/ttemplate. Om The monitor specrhel/ttemplate. Com The monitor churnu01-ess4.ca.4 Com The monitor churnu01-ess4.ca.4 Com The monitor specrhel/ttemplate. The monitor subvol1-wk1-y2.Gue The monitor subvol1-wk1-y2.Gue The monitor subvol1-wk1-y2.The The monitor SDN-starter-kl.Por MANAGEMENT AGENT LOST MANAGEMENT AGENT LOST MANAGEMENT AGENT LOST MANAGEMENT AGENT LOST	Message .GuestState on nvm 4 stState on nvmq-vv o com.Status on nvm estState on nvms 42 bowerState on nvms 43 te on nvmq-vc:443 is outsid werState on nvmq-vc:443 is	43 is outsid outside ex; 8/31 5:19:4 13 is outsid 43 is outsid 43 is outsid 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/31 5:19:4 8/30 8:14:1 8/30 8:41:4 8/30 8:41:4	Time 5 PM 5 PM 5 PM 5 PM 6 PM 6 PM 6 PM 6 PM	• Ма Ма Ма Ма Ма	Subsystem Initor I	Actions • Count 14 14 14 14 14 14 14 14 14 14		×



Symptomatic Alarms Synced to Infrastructure

🚺 Alarm Detail: S	Sim7641:vms109x.ub7ix109x of type Summit X450a-48t[IC - CA Spectrum OneClick				
Sim7641:vms109x.ub7is Alarm Details Infr	Interport Type Sammit X450a.480C formation Impact Host Configuration Root Cause Interfaces	Performance Alarm History Neighbors Events Path	View SDN VirtualOverlay SDN Servi	seView.		ss @%
Sh ↓ Sev ≠ Date/T ♥ Crit Sep 21 ♥ Crit Sep 21 ♥ Algor Sep 21 Sh ↓ Severity (create	The selected alarm resulted in 3 symptoms. Displaying 3 of 3 Time ▲ Name Network Add Urgla 1, 2016 5:34: Sim/241.vms109xub 1, 2016 5:34: Sim/241.vms109xub 1, 2016 5:34: Sim/241.vms109xub 10,241.25 Lingla 01splaying 0 of 0 ed On ♥ Name	Alarm Title As d INFERRED CONNECTOR CONTACT ST BL DEVICE HAS STOPED RESPONDING RADE STATUS UNNNOWN Created By Cleared On	Signment Trouble Ticket ID	UIM Alarm Id Source * SPECTRUM SPECTRUM SPECTRUM	Landscape kolpc02-854 (bit kolpc02-854 (bit kolpc02-854 (bit)	Splaying 1 of 1 inters: •• CTRUM
Managemen Spectrum Vou are lo Virtt VITt VI	Home Unified Dashboards Reports Unified ServiceManager L: III III (0)	Design Configuration ×			_	# - + : Actions v () ?
● Univer: ● 0.0 + 0.1 + 0.1	Alarms Showing: 1 of 31 Quick Filter Image: Time v Host = Sim7641:vms109x.ub7ix109x Sim7641:vms109x.ub7ix109x CHASSIS DOWN	• Poorma_hub - Wed Sep 21 2016 05:3	5:02 PM			(i) 🚼 🏭 (Actions •
± ♦ 10.1 ± ♦ 10.1 ± ♦ 10.1	1 since 35 secs ago 🐓 💿 🛓 🛃 🗎	LESS Details History Symptoms Metri Message	Time	Subsystem	Count	Assigned To
	Image: Sim 7641:vms109x.ub7ix109x Image: Sim 7641:vms109x.ub7ix109x Image: Sim 7641:vms109x.ub7ix109x	DEVICE HAS STOPPED RESPONDING TO POLL INFERRED CONNECTOR CONTACT STATUS LO: BLADE STATUS UNKNOWN	9/21 5:35:02 PM 9/21 5:35:02 PM 9/21 5:35:02 PM		1 1 1	



Architecture





What's New

Increased Flexibility

- Control over inventory sync
- No longer re-enter SMNP credentials



Streamline Monitoring

Single Pane of Glass

- Create rules for CA UIM events
- Sync CA UIM custom attributes



 Monitor AWS and Azure clouds



Secure Communication

• SSL support for communication





Deployment View



OneClick client



Unified Management Portal





Scenario #1: Root Cause Analysis for Network and Infrastructure Monitoring

Usability for NOC Engineers

Key Responsibilities:

- Infrastructure availability
- Speed issue resolution

Problem Statement:

- Application hosted on a VM is not accessible
- Router Interface is down due to which downstream VMs are not reachable



What Will You Accomplish

- View inventory sync to CA Spectrum
 - Select the CA UIM inventory to sync
 - Topology view for CA UIM inventory
- View CA UIM alarms in CA Spectrum
 - View root cause and symptomatic alarms based on RCA and FI performed in CA UIM and CA Spectrum alarms
- Manage alarms
 - Assign troubleshooter
 - Clear alarm
 - Create/update trouble ticket ID



Hands-On Lab



Topology View





Root Cause and Symptomatic Alarms

L		Console - CA Spectrum OneClick		_ 🗆 X
<u>File View Tools H</u> elp	4 • > - & E ((0)) 📮	6 0 0	Device Search: Go 🕑 by IP Address	
Navigation		Contents: Universe of type Universe		~
Explorer Locater Users		Alarms Topology List Events Information		
Name 🔺		🕞 🕼 🕶 🧭 🖓 🖓 🎝 🖈 💼 🌭 X 🕼 Zoom: 100% 🔽 Q. Q.		
My Spectrum	5 25 4			<u>^</u>
Favorites				
Global Collection Hierarc	hy			
Active Directory and Exe	change Server Manager			
E Configuration Manage	jer (3) 1	Casco L3.26.00m Cas3750g-159.25	cis3750g-159.24	
eHealth Manager		Cat//xxStack	Cat37xxStack	
MPLS Transport Manage	er i i i i i i i i i i i i i i i i i i i			
Policy Manager				
VPLS Manager	Manager (2)		UM Inventory UMInventoryCont	
VPN Manager				
Generation (0x100000 Generation (0x100000 Generation (0x100000 Generation (0x1000000 Generation (0x10000000 Generation (0x1000000 Generation (0x1000000 Generation (0x1000000 Generation (0x100000 Generation (0x1000000 Generation (0x10000000 Generation (0x10000000 Generation (0x1000000 Generation (0x10000000 Generation (0x1000000 Generation (0x1000000 Generation (0x1000000 Generation (0x10000000 Generation (0x10000000 Generation (0x10000000 Generation (0x10000000 Generation (0x1000000000000000 Generation (0x100000000000000000000000000000000000	(4) 5 25 4	jum/77-96-20 M7i		
🗄 📑 Correlation Mana	ger (1) 2 1	144	nymga-vc	
LostFound (1) Secure Domain M	1 1	E A COMPANY	VMware vCenter	~
E Service Manager	(3)			>
TopOrg TopOrg TopOrg		Component Detail: dis3750g-159,249,ca.com of type Cat37xxStack		
+ O Universe (70)	2 24 4	Information Host Configuration Root Cause Interfaces Performance Neighbors Alarms Cleared Alarms History Events Attributes Path View SDN Vietus	alOverlay SDN ServiceView	
World Enterprice VPN Magaz		③ × ♥ ♥ ½ ½ ⅓ ⊠ ◎ ♥ ☞ show ▼		Displaying 1 of 1
Multicast Manager	iyei	Filtrand By: Senath	Available	e Eitere: vl
QoS Manager		Severity & Date/Time & Name & Network Address Secure Domain Type Alarm Title	Source Cause Code Model Type N	L
SDN Manager	Manager	💙 Critical May 5, 2017 9:54:33 AM EDT 🔤 dis3750g-159.24 [10.131.159.249 Directly Managed Cat37xxStack CHASSIS DOWN	SPECTRUM 0x10f69 SwCiscoIOS	
Telco EMS Manager	7	Alarm Detail: cis37500-159249 ca com of type Cat37xxStack - CA Spectrum OneClick		
Virtual Device Mana				
VPC Manager	File View Tools Help			
WLC Manager	cis3750g-159.249.ca.com of type Cat37xxStac	<u>k</u>		
	Alarm Details Information Host Configuration Im	Root Cause Interfaces Performance Alarm History Neighbors Events Path View SDN VirtualOverlay SDN ServiceView		
	🚯 🗙 Show 💌			
			····· ^	
	Service Impact There is currently r	io service impact due to the selected alarm.		
	LSP Impact There are currently	no LSPs impacted by the selected alarm.		
	Symptoms The selected alarm	resulted in 2 symptoms.		
	Show	ying 2 of 2		
	Severity A Date/Time A Na	ne A Network Address Secure Domain Type Alarm Title	Activate Windows	
Spectrum	Major May 5, 2017 9:54:33 AM EDT cis	750g-159.24 10.131.159.249 Directly Managed Cat37xxStadk BLADE STATUS UNKNOWN	Go to System in Control Panel to activate Win	idows.
You are logged i		cis3750g-159.249.ca.com		- 2 •
😑 📥 📨	📋 🔿 📝 🞇 🛛	2	- us 🛙	9:59 AM 5/5/2017



Selective Sync of CA UIM Inventory

CA Unified Infrastructure Management

Home Unified Dashboards 🗷 Reports Design Configuration		
UnifiedServiceManager	<i>▶</i> - + ×	
Edit Group NewGroup 1 Properties Report Templates Group Type Dynamic • Name Windows servers Account • Member Type System • Members Description Name Alias IP Address Caption • •	OS Type OS Name OS Version OS Description Origin	board
CA UIM custom groups used for selective sync of inventory from CA UIM to CA Spectrum	Home CA Spectrum Documentation About Debugging Report Manager Administration Pages AXA Configuration CAC Configuration ElseWirks Configuration Enail Configuration Enail Configuration MySQL Password On-Click Configuration MySQL Password On-Click Configuration Portice Clear Configuration SDN Gateway Integration Configuration Single Sign-On Configuration SPM Data Export SM Template Naming SSL Certificates UIM Configuration Update Export SM Strike Desk Configuration SPM Data Export SM Template Naming SSL Certificates UIM Configuration Web Server Lops Configuration Web Server Netroxid Wird Server Performance Wird Neeports Web Server Performance Wird Neeports Save	



CA UIM Custom Alarm Attributes Sync



Scenario #2: Root Cause Analysis on CA UIM Events

Usability for NOC Engineers

Key Responsibilities:

- Infrastructure availability
- Speed issue resolution

Problem Statement:

- Application hosted on a VM is not accessible
- SQL server on the VM related to the application is not available



What Will You Accomplish

- View inventory sync to CA Spectrum
 - Select the CA UIM inventory to sync
 - Topology view for CA UIM inventory
- View CA UIM alarms in CA Spectrum
 - View root cause and symptomatic alarms based on RCA and FI performed in CA UIM and CA Spectrum alarms
- Manage alarms
 - Assign troubleshooter
 - Clear alarm
 - Create/update trouble ticket ID



Hands-On Lab



Root Cause and Symptomatic Alarms

						L			
ation		Contents: apps	erver3 of type UIMHost						~
rer Locater Users		Alarms Topole	ogy List Events Information						
		O X 1	1 - 1 + 1 - 1 B	NA RON CO No Show	-1			Die	enlaving 1 g
appserver3	1 ^		• • • • · · · La	2 88 i 4 mm					
compute		I married by the							
controller		Date/Time 🖉	Name 🖈	Network Address Type	Alarm Title		Source	e Cause Code	
ddinme03-UNL		May 5, 2017 10:3	4:46 AM EDT appserver3	10.131.159.177 UIMHost	Profile test, Cannot	connect to database instance 10.131.159	. 177: (connection timeout). NAS	0x6330080	
dinme03-Ub14									
itcsimrepo									
ITCvEdgeCloud									
network									
sdn-computenode1	1								
sdn-computenode2									
SDN-starter-kit	2								
specrhel7template									
subva01-w12scom									
Ubuntu 14.4									
vatas01-rh7u2		<			I	II			
AWS Service Health									
Aws_Demo		Component De	etail: appserver3 of type UIMHost						~
Azure Data Services Health				Tennet a car la ca	5 (
Azure_Demo		Alarm Details	Information Host Configuration	Impact Root Cause Interfaces	Performance Alarm His	story Neighbors Events Path View, SL	IN VIrtualOverlay SDN Serviceviev	VV	
ddinme03-UNL	=	A X	Show -						
ddinme03-UNL	=	0 ×	Show 🗾						
 ddinme03-UNL drupal ec2-54-191-34-154.us-west-2 		Symptoms	Show - The selected ala	arm resulted in 1 symptoms.		٩			
 ddinme03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 		Symptoms	Show _	arm resulted in 1 symptoms.		٩			
 ddinme03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 		Show V	Show - The selected ala	arm resulted in 1 symptoms. splaying 1 of 1		۹			
 ddinme03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 tTCvEdgeCloud 		Show V Severity A	Show The selected ala	arm resulted in 1 symptoms. splaying 1 of 1 Name 🖍 Network Addre	is Type /	Narm Title		Source	Ca
 ddime03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 ITCVEdgeCloud managediskvm 		€ Symptoms Show ▼ Severity ▲ Vajor	Show The selected ala Dis Date/Time Any 5, 2017 10:37:46 AM EDT	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver3 10.131.159.17	is Type /	Narm Title JRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca Dxt
 ddime03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 ITCvEdgeCloud managedskvm Rpt_Segment 		Symptoms Show ▼ Severity ▲ Major	The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver3 10.131.159.17	is Type / 7 JJIMHost I	Narm Title IRL response for 'appserver3' failed, 7 Cou	idn't connect to server	Source NAS	Ca Oxe
ddrwe03-NNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 TC-VEdgeCloud managediskvm Rpt_Segment spechel7template	 ■ ■	Show Severity A	The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre apperver3 10.131.159.17	s Type /	Alarm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca 0x(
ddime03-NN ddime03-NN ddime03-NN ec2-54-311-34-154-us-west-2 ec2-54-218-121-50-us-west-2 ec2-54-218-121-50-us-west-2 TCVEdgeCloud managediskvm Rpt_Segment spechel7template subvol1=w12scom	 ■ ■	€ × Symptoms Show ▼ Severity ▲ Major	The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	rm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver3 [10.131.159.17	ss Type / 7 UIMHost L	Alarm Title RL response for 'appserver3' failed, 7 Col	ildn't connect to server	Source NAS	Ca 0xt
ddrwe03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 ITCVEdgeCloud managedisk/m Rpt_Segment specrhe17template subva01-w12scom Uburtu14.4		Symptoms Show Severity Mayor	The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver3 10.131.159.17	ss Type / 7 UIMHost U 111	Narm Title RL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca 0xt
ddrwe03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 TC-VEdgeCloud managediskum Rpt_Segment spechel7template subva01-w12scom Ubuntu 14.4 ubuntuBreakOut		€ Symptoms Show ▼ Severity ▲ Major	The selected ala Dis Date/Time C	rm resulted in 1 symptoms. splaying 1 of 1 Name ♪ Network Addre appserver3 10.131:159.17	is Type // 7 U/IMHost L	Alarm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca Oxi >
ddime03-UNL ddime03-UNL ddime03-UNL ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-203-215-50.us-west-2 ec2-54-203-215-203-203-203-203-203-203-203-203-203-203		Symptoms Show Sevenity Major Show Show Show Show Show Show	Show The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	rm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver 3 [10,131,159,17 splaying 0 of 0	is Type / VIIMHost k	Alarm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca 0xt
ddrwe03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 ITCvEdgeCloud managediskvm Rpt_Segment spechel7template subva01-w12scom Uburtu14.4 uburtu8reakOut UIM vatas01-th7u2		Symptoms Show Severity Kappen Kappen Severity	The selected ala Dis Date/Time A May 5, 2017 10:37:46 AM EDT	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre apperver3 10.131.159.17 splaying 0 of 0 Name Event A	s Type / JJIMHost U III	Alarm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca Dx: >
ddime03-UNL ddime03-UNL drupal ec2-54-311-34-154.us-west-2 ec2-54-218-121-50.us-west-2 ec2-54-218-121-50.us-west-2 TrCVEdgeCloud managediskvm Rpt_Segment spechel7template subvol1:w12scom Ubuntu14.4 Ubuntu14.4 Ubuntu14.4 Ubuntu14.4 UIM UIM vata01-th7u2		Symptoms Show Sevenity Sevenity Show Sevenity Sevenity	Show The selected ala Dis Date/Time The selected ala Dis Date/Time The selected ala Dis Date/Time Dis Date/Time Dis Created On The selected ala Dis	rm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre apperver3 10.131.159.17 splaying 0 of 0 Name Event A	is Type // P UTMHost k	Alarm Title IRL response for 'appserver3' failed. 7 Col	ildn't connect to server	Source NAS	Ca 0xt > Even
ddime03-UNL ddime03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-125-37.us-west-2 ec2-54-218-121-50.us-west-2 ITCVEdgeCloud managedskvm RpL_Segment specrhe17template subvol1-w12scom Uburtu14.4 uburtuBreakOut UIM vatas01+h7u2 vatas01+h7u2 UIM		Symptoms Show ~ Seventy ~ Seventy ~ Seventy ~ Seventy ~	Show The selected ala Dis Date/Time Show Show	splaying 1 of 1 Name Network Addre appserver 3 splaying 0 of 0 Name Event Event	is Type / VIIMHost k III	Narm Title IRL response for 'appserver3' failed. 7 Cou	ión't connect to server	Source NAS	Ca Dxt > Even
 ddime03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-219-124-57.us-west-2 TCVEdgeCloud managediskvm Rpt_Segment specrhel7template subva01+w12scom UUML14.4 ubuntuBreakOut UIMEventAdmin (16) 138.42.94.10 138.42.94.10 		© × Symptoms Show ▼ Severity ∧ Major Kow ▼ Severity	Show ▼ The selected ala Date/Time ← May 5, 2017 10:37:46 AM EDT Created On ←	arm resulted in 1 symptoms. splaying 1 of 1 Name Network Addre appserver3 No.131.159.17 splaying 0 of 0 Name Event Network Addre	is Type // /UIMHost L	Alarm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca Ox(> Even
 ddime03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-202-153-37.us-west-2 ec2-54-218-121-50.us-west-2 TTCVEdgeCloud managediskvm Rpt_Segment spechel7template subva01-w12scom UDuntu14.4 ubuntu8reakOut UIM vatas01-th7u2 UIM 138.42.94.11 138.42.94.133 		Symptoms Show Show Seventy Seventy Seventy Seventy	Show The selected ala Dis Date/Time Show Date/Time Show Date/Time Show Dis Date/Time Show Dis Date/Time Dis Created On The selected ala Dis	splaying 1 of 1 Name Network Addre apperver3 splaying 0 of 0 Name Event	is Type // PUTMHost k	Alarm Title IRL response for 'appserver3' failed. 7 Col	lidn't connect to server	Source NAS	Ca Dx: > Even
 ddimme03-UNL drupal ec2-54-191-34-154.us-west-2 ec2-54-201-215-00.us-west-2 ITCVEdgeCloud managediskvm Rpt_Segment specrhel7template subva01-w12scom Ubuntu14.4 ubuntuBreakOut UHKventAdmin (16) 138-42.94.13 138-42.94.14 138-42.94.14 		© × Symptoms Show ▼ Seventy ▲ V Major Kalor K	Show The selected ala Dis Date/Time Show The selected ala Dis Date/Time Show The selected ala Dis Date/Time Show The selected ala Dis Dis Created On The selected ala Dis Created On The selected ala Dis	arm resulted in 1 symptoms. splaying 1 of 1 Name A Network Addre appserver 3 10.131.159.17 splaying 0 of 0 Name Event A	ss Type / VIIMHost k	Narm Title IRL response for 'appserver3' failed. 7 Cou	idn't connect to server	Source NAS	Ca Ox >



Additional Events Mapping

- Unique event codes for additional event configuration
- Metrics from the following probes now have unique event codes
 - sqlserver (SQL Server Monitoring) probe 76 metrics
 - cdm (CPU, Disk, Memory Performance Monitoring) probe 39 metrics
 - net_connect 6 metrics
 - processes (Process Monitoring) probe 16 metrics
 - logmon 4 metrics
 - rsp (Remote Systems) probe 16 metrics



What Questions Do You Have?



THANK YOU!

