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New Features

• Network Device Monitoring: Uila users can pinpoint the performance bottleneck down to the network for any dependency chain for a multi-tier application. Users are armed with operational insights on network devices, such as switches, routers, load balancers, firewalls, etc. with detailed info into the availability status, utilization, congestion, errors, discards. In addition, users get full visibility into connected VMs for every single network switch port and its respective Application, CPU, Memory and Storage Health to pinpoint performance challenges due to the network device bottleneck. For remote location monitoring, in addition to its existing end-user experience monitoring capability to measure the performance from the end-user's perspective & proactively identify issues, users can visualize the status of the WAN link and the interconnection status with the rest of the switch fabric.

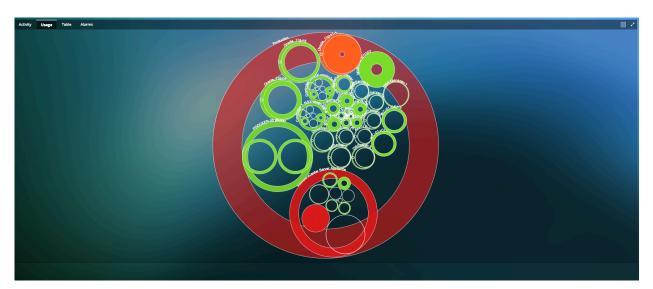
Network Device						■ - Z	
Device Name	Ports					Network Device Info	
pfSense.localdomain (192.168.0.190)						0	
cat-5505 (10.1.120.12)							
cat-5505 (10.1.120.13)						0	
cat-5505 (10.1.120.15)	#2=222222222###						
ProCurve 2524 (10.1.120.2)		o z				0	
Statistics Connect	ed VMs/Devices					X 3: up, 10 Mbps	
In Util Pct Max: 0 % Min: 0 %		In Discards Max: 0 Min: 0		In Errors Max: 61 Min: 59			
Out Util Pct Max: 0 % Min: 0 %		Out Discards Max: 0 Min: 0		Out Errors Max: 0 Min: 0			
In Octets Max: 148913 Min: 146623		In Ucast Pkts Max: 2539 Min: 2499		In N-Ucast Pkts Max: 11 Min: 11			
In Unk Protos Max: 0 Min: 0		Out Octets Max: 114510 Min: 112751		Out Ucast Pkts Max: 2419 Min: 2382			
Out N-Ucast Pkts Max: 0 Min: 0		Out Q Len Max: 0 Min: 0					

You can visualize alarms in the alarm tab within Network Device if a particular port is congested (high utilization) or has errors (errors, discards).



Realtime Coff C		06 PM	D9 PM		wed 13 03		CS AM	Production ~ Application Performance CPU Health Memory Health Network Health Network Health
A Network Device	Alarms							
Severity 🗠	Message	Switch	Port 🗘	Stat 🗘	Stat Type 🗘	Baseline 🗘	Start Time 🗘	End Time
	Average In Discards for cat-5505(10.1.120.11) was 55.	cat-5505(10.1.120.11)	sc0	55	In Discards	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average in Errors for cat-5505(10.1.120.14) was 1920.	cat-5505(10.1.120.14)	long haul fiber gigabit ethernet	1920	In Errors		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average in Errors for cat-5505(10.1.120.16) was 1920.	cat-5505(10.1.120.16)	long haul fiber gigabit ethernet	1920	In Errors		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Discards for cat-5505(10.1.120.15) was 55.	cat-5505(10.1.120.15)			In Discards		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Discards for ubnt(192.168.0.1) was 120.	ubnt(192.168.0.1)	eth0	120	In Discards	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.39) was 30.	ProCurve 2524(10.1.120.39)			In Errors		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.39) was 60.	ProCurve 2524(10.1.120.39)		60	In Errors	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Discards for cat-5505(10.1.120.13) was 55.	cat-5505(10.1.120.13)	sc0		In Discards		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.39) was 23.	ProCurve 2524(10.1.120.39)		23	In Errors	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.2) was 23.	ProCurve 2524(10.1.120.2)			In Errors		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.2) was 60.	ProCurve 2524(10.1.120.2)		60	In Errors	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for ProCurve 2524(10.1.120.2) was 30.	ProCurve 2524(10.1.120.2)		30	In Errors		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average in Errors for cat-5505(10.1.120.10) was 1920.	cat-5505(10.1.120.10)	long haul fiber gigabit ethernet	1920	In Errors	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average in Discards for VCEX27C944500FP(10.1.120.49) was 19620.	VCEX27C944500FP(10.1.120.49)	HP VC Flex-10/10D Module 4,40 X11	19620	In Discards		03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average in Discards for VCEX27C944500FP(10.1.120.49) was 19560.	VCEX27C944500FP(10.1.120.49)	HP VC Flex-10/10D Module 4,40 X10	19560	In Discards	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Discards for VCEX27C944500FP(10.1.120.49) was 31.	VCEX27C944500FP(10.1.120.49)	HP VC Flex-10/10D Module 4.40 X9	31	In Discards	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM
	Average In Errors for cat-5505(10,1.120.12) was 1920.	cat-5505(10.1.120.12)	long haul fiber gigabit ethernet	1920	In Errors	10	03/13/2019 02:15 AM	03/13/2019 02:30 AM

• **Storage Disk usage charts and alerts:** Users now have access to new circle packing views and tables to visualize storage usage and capacity.

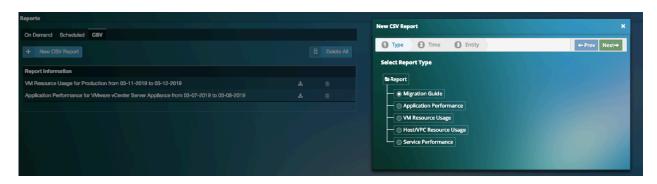




Activity Usage Table Alarms				
Usage vOlsk Host/VPC Datastore				
Filter VM	Filter Disk			
VM	- Disk C	Health 🗘	Usage 🗘	Capacity 🗘
APP-18-1	/boot	100	5.88%	476 MB
		100	5.42%	13.56 GB
	/os_bak	100	5.86%	3.81 GB
	Лтаде	100	5.74%	4.79 GB
	/var/doudnet/data	100	9.81%	3.81 GB
Cantroller-1-NSX-controller-5	/config	100	6.2%	1.90 GB
	/boot	100	11.07%	975 MB
	Nar/log	100	55,22%	4.79 GB
		100	40.35%	3.81 GB
	/os_bak	100	5.86%	3.81 GB
	Nar/doudnet/data	100	9.53%	3.81 GB
	Лтаge	100	5.74%	4.79 GB
Controller-2-NSX-controller-11	/boot	100	11.07%	975 MB
	/config	100	6.2%	1.90 GB
	Nar/log	100	67.52%	4.79 GB
		100	49.16%	3.81 GB
DBServer-1	/boot	100	10.92%	476 MB
		100	5.14%	25.96 GB
DBServer-2	/boot	100	10.92%	476 MB
UBServer-2		100	5.14%	25.96 GB
	/boot	100	10.92%	476 MB
DBServer-3		100	5.14%	25.96 GB
MINIC-CENTOS7		100	68.26%	82.55 GB
MssqkServer		100	51.67%	7.74 GB
NS6-Manager-1	/comman	100	6.1%	43.80 GB
Showing 1 to 71 of 71 entries.				

Enhancements

- Addition of traffic column in CSV export for Application Dependency Map New support for traffic column is now available in the CSV exports.
- **Reports in CSV format** All existing reports can now be exported in the CSV format.



• Configure # of transaction records exported in CSV for Transaction Analysis

ansaction Detail					Export Transaction Analysis CSV	× .					
ransaction Analysis	Network Conversation				Number of entity:						
Show 10 ¢ entries.					10						
lient	Server	Service	EURT	0 Net Delay 0	50 100 200	Apply X Close	Traffic	Retry C	Zero Window	Start Time	End Time
DB-LB-1001 192.168.0.160/4244 7)	Active Directory (192.168.0.20) (192.168.0.20/53)				QUERY dns[query]:DB-LB-1001 Hos[1000	RESPONSE Server failure onsiguerypuB-LB- 1001 Host address				03/13/2019 03:04:00.702.274 AM	03/13/2019 03:04: AM
0B-LB-1001 192.168.0.160/5934)	Active Directory (192.168.0.20) (192.168.0.20/53)				2000 QUERY dns[query]:DB-LB-1001 Host address	RESPONSE Server failure dns[query];DB-LB- 1001 Host address				03/13/2019 03:04:00.701.105 AM	03/13/2019 03:04 AM
DB-LB-1001 192.168.0.160/5815 3)	Active Directory (192.168.0.20) (192.168.0.20/53)					RESPONSE Server failure dns[query]:DB-LB- 1001 IPv6 address				03/13/2019 03:04:00.699.865 AM	03/13/2019 03:04 AM
DB-LB-1001 192.168.0.160/6040	Active Directory (192,168.0.20) (192,168.0.20/53)					RESPONSE Server failure dns[query]:DB-LB- 1001 IPv6 address				03/13/2019 03:04:00.694.182 AM	03/13/2019 03:04; AM

• Selection of timeline visualization for End-user Experience – Visualize the timeline based on health, Application Response Time or Traffic.

Realtim	x 0// 03/13/2019 02:05 AM - 03/13/201	903:04 AM+ 🤱 🔶 🚔 🚖		la po desta desta de la composición de La composición de la c	Time: 02/13/2019 01:3 ART: 250 ms Transaction: 1257			Production ~
09 AM	12 PM	03 PM	06 PM	09 PM	Wed 13	03 AM	OG AM	
User Exp	perience					Select Site - Select Application -	Fiber Client IP Q IF	/
	tcp	http	ssl	mysql	tns	https	dns	postgre
San Francisco	B Seret O Nomer		Sere Danne	Lannar Carlos A	Server Research	Read	A A A	server

• CSV migration report can now filter by Data Center, VM or service groups

New CSV Report			×
1 Type) Time 3 Entity		← Prev Completed
Туре	Name		
VM	- Active Directory	(192.168.0.20)	•
			٩
	Active Directory	(192.168.0.20)	
	Apache_2.4-s2		
	APP-LB-001 APP-LB-1		
	APP-LB-1001		
	APP-LB-101		
	APP-LB-102		
	APP_Load-Balan	cer	

Dulla



• Add cloud VM disk usage and capacity into VM resource report

Bug Fixes

- In certain situations, you may not see all the services in service performance report.
- Missing storage stats for external devices (not ist).
- In certain situations, you may miss VM cross-talking, unless you turn on external device monitoring.

Contact Uila Support

Uila software solutions are designed with ease of installation and simplified maintenance in mind. The Uila team is dedicated to exceeding your expectations, and knows that any downtime is too much in today's competitive world. Our goal is to keep your applications running 24 X 7. We offer a simple and effective support program to meet your needs.

Customers who purchased Uila products and under support contract will receive the following benefits:

- Unlimited support via email or phone call
- Free software minor release update
- Free software major release upgrade

Email: <u>support@uila.com</u> Phone: (408) 819-0775

About Uila

Uila provides Multi-Cloud Monitoring & Analytics in a single pane of glass for the Digital Enterprise. With Uila, IT Operations and Cloud IT teams can visualize application workload dependencies across cloud platforms, right size resources and investments for their workloads and plan workload migration strategies for Hybrid and Multi-Cloud deployments. IT teams can also identify performance bottlenecks for business-critical services using full-stack correlation with 1-click root cause analysis and a patented Deep Packet Inspection technology that understands over 3,000 application protocols for transactional meta data analysis. Businesses use Uila to align themselves with their IT teams and cut time to resolution from days to minutes, keep their application at peak performance at all time and ensure end-user satisfaction to the fullest across cloud boundaries.