ntopng 2023: News & Updates

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Sept, 21-22 · Pisa

What Changed

Main Focus/Changes:

Last Year	Now
Alerts & Checks	Cybersecurity
Behavior Analysis	Traffic Analysis
Historical Flows (ClickHouse)	Historical Flows (Improvements)
Integrations	Integrations
	User Interface



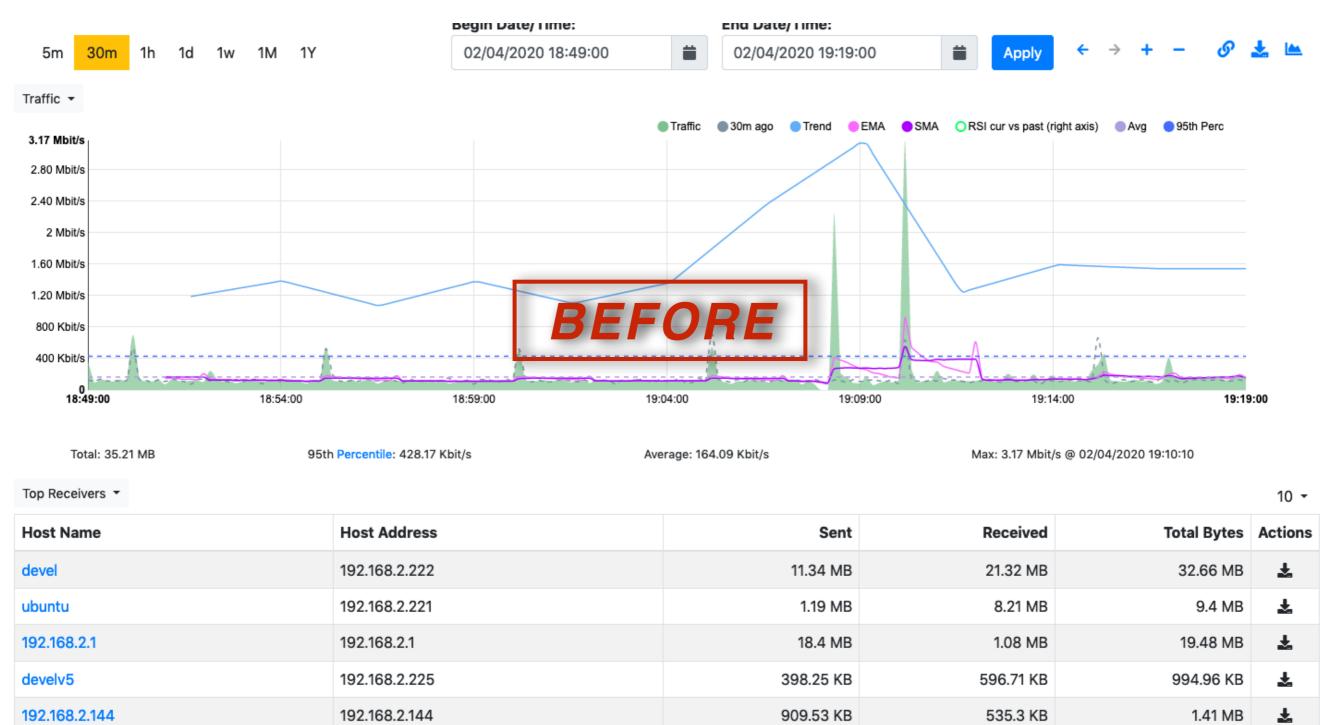
New ntopng Model Available: Enterprise XL

XL Model:

- Increased the maximum number of exporters (reaching 1024 total exporters)
- Increased the maximum number of monitored interfaces (up to 64)
- Support to Host Flow Sankey & other features...



User Interface Refactoring: Charts (1/2)



254.78 KB



192.168.2.169

192.168.2.169

501.04 KB

1

246.26 KB

User Interface Refactoring: Charts (2/2)

📾 Interfac	e: eno1 🏫	Networks Pa	ckets DSCP	Apps ICMP ARP	Sites 🖿 🖁	8 A ¢ /	• ሥ 🗶 🕯	0 🔺				←
Last 6 Hou	irs 🗸 🛱	15/09/2023 08	:49 →	15/09/2023 14:49	Apply ←	→ Q Q %	c 🖬 🖪	⊞			VON	~
Custom M	etrics	~	One Chart pe	r Y-axis	✓ Manage	Timeseries						
							🔄 eno1 - Sent	🕑 eno1 - Rcvd	🖸 eno1 - TLS 👔	aeno1 - WebChec	kinNew 🔽 eno	1 - Github
8.00 Mbps			1									
4.00 Mbps											M	
0.00 bps *		•••••		*****	P		•	•••••	•••••			AA4
4.00 Mbps												
8.00 Mbps												
12.00 Mbps												
L	09:00	09:30	10:00	10:30 1	1:00 11	1:30 12	2:00 12	2:30 13	8:00 13	:30 14:0	00 14:	30

Metric	Average	95th Percentile	Мах	Min	Total
eno1 - Sent	164.31 Kbps	1.12 Mbps	1.98 Mbps	0.00 bps	420.75 MB
eno1 - Rcvd	170.33 Kbps	90.77 Kbps	12.60 Mbps	0.00 bps	436.15 MB
eno1 - TLS	5.83 Kbps	11.16 Kbps	31.49 Kbps	0.00 bps	14.94 MB
eno1 - WebCheckinNew	107.90 Kbps	684.34 Kbps	2.10 Mbps	0.00 bps	276.29 MB
eno1 - Github	79.92 Kbps	291.37 bps	9.09 Mbps	0.00 bps	204.64 MB



New Dashboard... (1/2)



Active Hosts

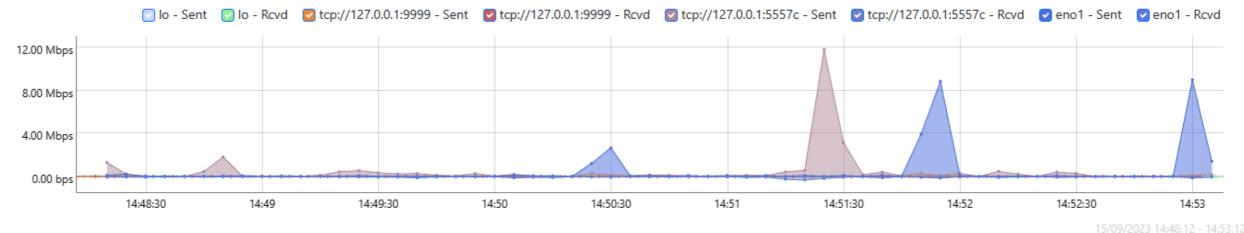
A

10

Active Flows

58

Interfaces Traffic



Ξ

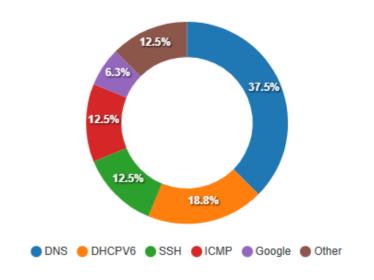
Top Local Hosts

Host	Current Traffic
devel	204.90 Kbps
192.168.2.153	189.90 Kbps
dns.google	522.50 bps
_gateway	240.00 bps

Top Remote Hosts

Host	Current Traffic						

Top Applications





New Dashboard... (2/2)

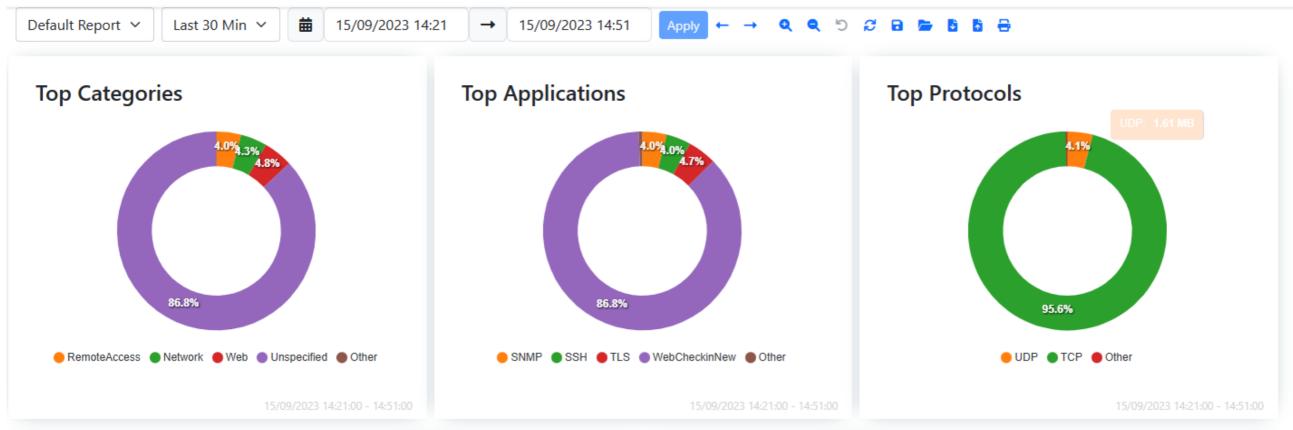
A different Dashboard based on:

- Model (Pro, Enterprise M, ...)
- Configuration (ClickHouse enabled or not)

In the near future: ability to create custom dashboards from ntopng UI



...& Traffic Report (1/2)



Top Local Hosts

Host	Volume
devel	191.79 MB
192.168.2.153	175.53 MB
localhost	132.13 MB
192.168.2.237	1.36 MB
192.168.2.169	1.27 MB
192.168.2.175	904.69 KB

Top Remote Hosts

Host	Volume
149.154.167.220	6.58 MB
api.telegram.org	1.79 MB
142.250.184.78 🏧	173.48 KB
13.107.13.93 🎟	69.43 KB
142.250.180.174 🊟	55.25 KB
34.120.177.193 🎟	49.11 KB



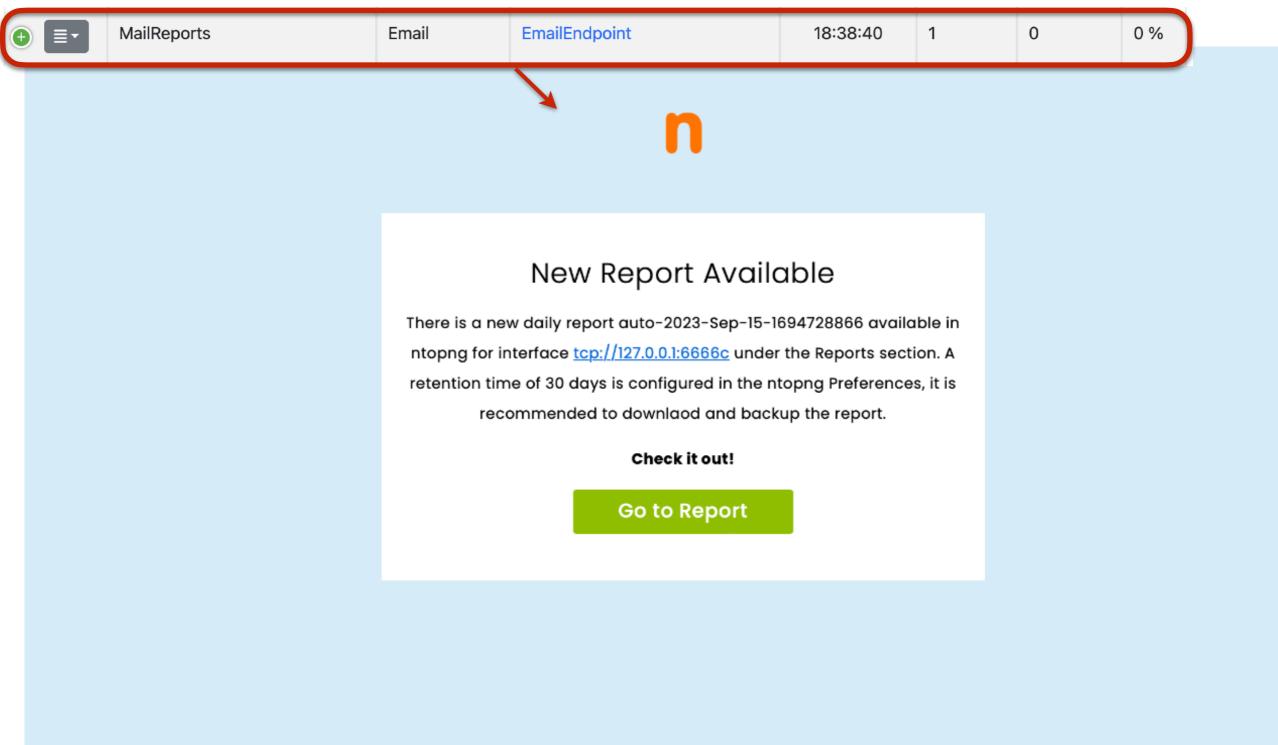
...& Traffic Report (2/2)

Now it can:

- Be Printed / Uploaded / Downloaded
- Sent via E-Mail!
- Different Reports available
- A lot more in the future...

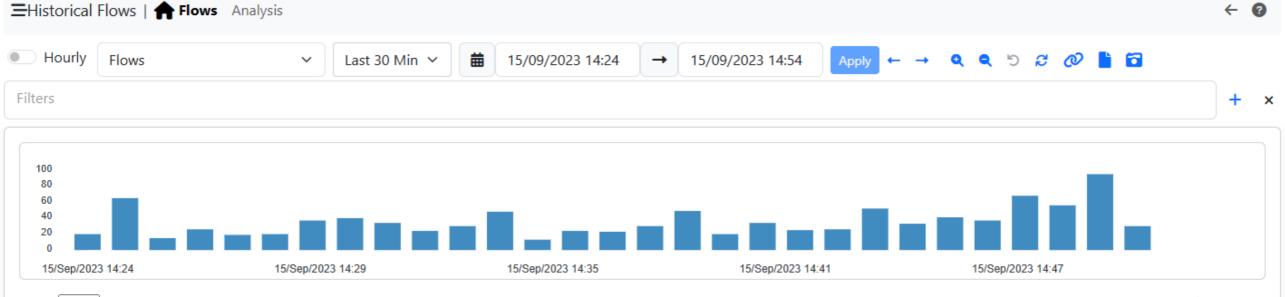


E-Mail Report





Historical Flows User Interface Refactoring... (1/2)



Show 10 Y Entries

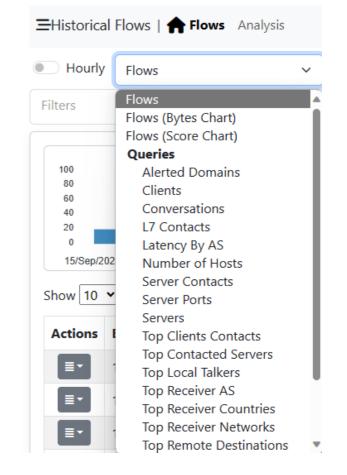
Top Applications 🔹 Top Info 🔹 🔲 🔁 🥥 🔹

Actions	Begin	End	Duration	Protocol	Application	Score	Flow	Pkts	Bytes	Thpt	L7 Category	Flow Risk
≣▼	14:47:23	14:47:23	00:01 sec	IPv6-ICMP	ICMPV6 DPI		fe80::20c:29ff:fe6c:eba c 컱 ff02::1	1	110 Bytes	880 bps	Network	
≣▼	14:47:33	14:47:33	00:01 sec	UDP	DHCPV6 DPI		fe80::20c:29ff:fe37:d0 5:546 🗖 7 ff02::1:2:547 🗖	1	104 Bytes	832 bps	Network	
≣▼	14:47:56	14:47:56	00:01 sec	UDP	DHCPV6 DPI		fe80::20c:29ff:fe95:b14 c:546 🗖 7 ff02::1:2:547 🗖	1	104 Bytes	832 bps	Network	
≣▼	14:48:05	14:48:05	00:01 sec	IPv6-ICMP	ICMPV6 DPI		fe80::20c:29ff:fec3:10e 4 7 ff02::1	1	110 Bytes	880 bps	Network	
≣▼	14:48:06	14:48:06	00:01 sec	UDP	DHCPV6 DPI	10	fe80::2e0:edff:fe1a:345 6:546 🗖 🔁 ff02::1:2:547 🗖	1	104 Bytes	832 bps	Network	Periodic Flo
≣▼	14:48:07	14:48:07	00:01 sec	UDP	DHCPV6 DPI		fe80::ec4:7aff:fecc:c44 a:546 🗖 🚅 ff02::1:2:547 🗖	1	104 Bytes	832 bps	Network	
≣▪	14:48:17	14:48:17	00:01 sec	UDP	DHCPV6 DPI	10	fe80::ec4:7aff:fecc:4e6 e:546 🗖 🚅 ff02::1:2:547 🗖	1	104 Bytes	832 bps	Network	Periodic Flo
≣▼	14:48:27	14:48:27	00:01 sec	UDP	DHCPV6 DPI		fe80::ec4:7aff:fecc:4c5 3:546 컱 ff02::1:2:547 □	1	98 Bytes	784 bps	Network	
≣▼	14:48:38	14:48:38	00:01 sec	UDP	DHCPV6 DPI		fe80::20c:29ff:fe4c:66 b:546 컱 ff02::1:2:547 □	1	130 Bytes	1.04 kbps	Network	
≣▼	14:48:44	14:48:44	00:01 sec	UDP	DHCPV6 DPI		fe80::20c:29ff:fe6c:eba 2:546 컱 ff02::1:2:547 □	1	130 Bytes	1.04 kbps	Network	



Historical Flows User Interface Refactoring... (2/2)

- Changed tables:
 - More Flexible (resizable columns)
 - A lot more Fast
 - Configurable (choose which column to display)
- Added many new Presets (Queries):
 - Top Sender/Receiver Network
 - Top Sender/Receiver Country





...Historical Flows Aggregation (1/3)...

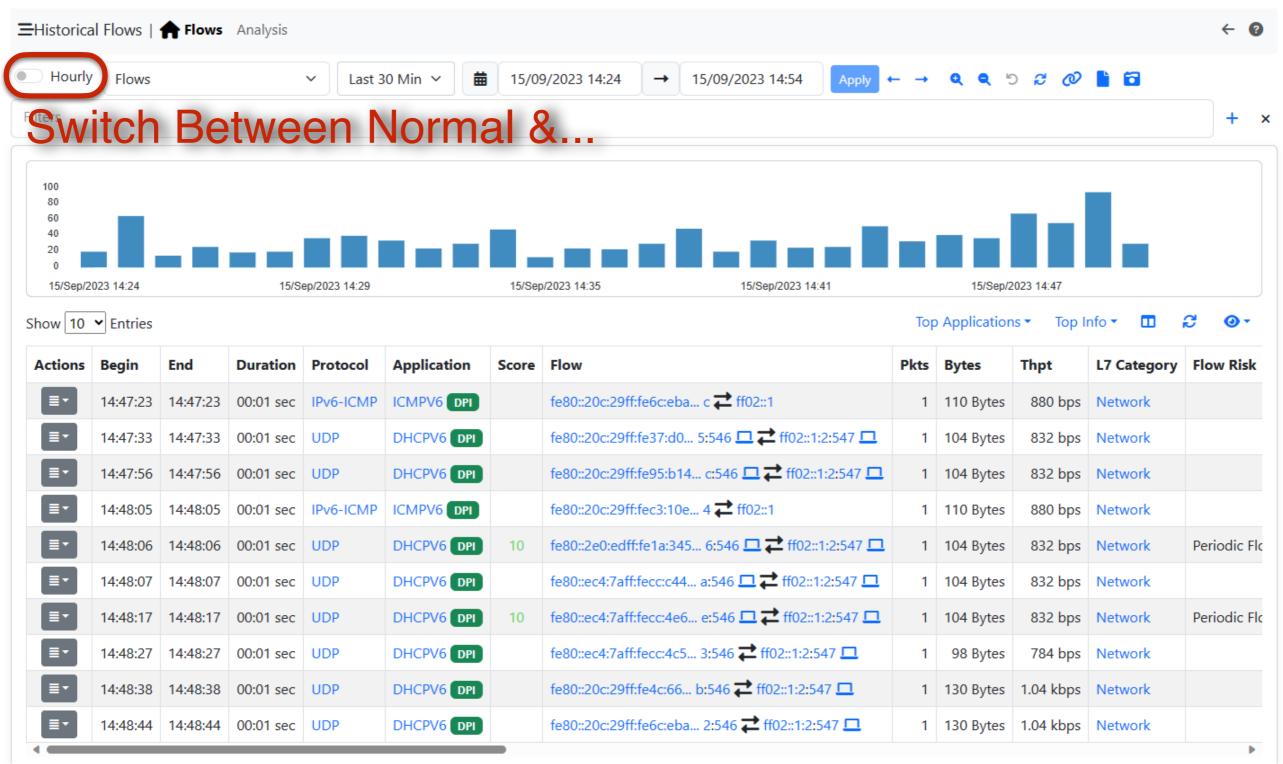
Have less information but more Data!

Keeping all last month Flows in the Database could cost a lot of disk Just keep an aggregation of flows

(compact similar flows in a single entry) in order to be able to keep more data



...Historical Flows Aggregation (2/3)...





...Historical Flows Aggregation (2/3)...

Historica	I Flows	Flows	Analysis									←
Hourly	Flows			✓ Last Hour ✓		9/2023 14:00	Apply ← -	• Q	Q 5 <i>2</i>	0 📔 🖸	1	
Aq	gre	gat	ed									+
50 40 30												
20 10 0 15/Sep/20	23 13:00		15/Se	p/2023 13:12	15/Sep/2023 13:24	15/Sep/2023 13:	36		15/Sep/2023 13:4	18		
now 10	✓ Entries				Top Applications -	Top Protocols •	Top Clients	Тор	Servers • T	op Hosts 🔻	• <i>•</i>	0
Actions	Begin 🕈	End	Protocol	Application	Flow	Avg Score	Total Flows	Pkts	Total Bytes	Cli ASN	Srv ASN	
≣▼	13:22:32	13:22:32	ТСР	TLS.Unknown	192.168.2.222 🗖 컱 140.82.121.3 🔳 :443		1	1,140	1.01 MB		36459 (GitHu	b, In
≣▼	13:22:34	13:56:26	ТСР	SSH	192.168.2.222 🗖 컱 192.168.2.153:51812		7	1,322	152.28 KB			
	13:22:35	13:57:27	ТСР	SSH	192.168.2.222 🗖 🔁 192.168.2.153:51614		7	29,360	4.61 MB			
	13:22:35	13:57:22	ТСР	Unknown	127.0.0.1 7 127.0.0.1:53126		7	52,222	7.0 MB			
	13:22:38	13:57:23	ТСР	Unknown	127.0.0.1 7 127.0.0.1:34325		7	8,338	1.43 MB			
	13:22:57	13:23:32	ТСР	TLS.Microsoft365	192.168.2.222 🗖 컱 52.182.143.208 🎟 :44	43 10	2	45	19.05 KB		8075 (Microso	oft (
	13:22:57	13:23:32	ТСР	TLS.Unknown	192.168.2.222 🗖 컱 52.182.143.208 🕮 :44	43 10	2	180	73.6 KB		8075 (Microso	oft (
	13:22:57	13:32:07	UDP	DNS.Microsoft365	192.168.2.222 🗖 컱 192.168.2.1:53 🗖		8	16	2.57 KB			
	13:22:57	13:32:07	UDP	DNS.Azure	192.168.2.222 🗖 컱 192.168.2.1:53 🗖		10	20	2.05 KB			
					127.0.0.1 7 127.0.0.53:53							



... Historical Flows Aggregation (3/3)... 99.6 GB vs 629.1 MB Flows Table Size: 99.6 GB — Hourly Flows Table Size: 629.1 MB — Alert Tables Size: 6.9 MB (Flow Alerts are included in the Flow Table Size) -Compression of data: Database Table Records: Flows: 2,526,547,711 [42 bytes/record] 2.5B vs 14.2M Flows Hourly Flows: 14,230,000 [46 bytes/record] Alerts: 47,985,994 ClickHouse **ClickHouse Flows/Alerts Data Retention** 15 Number of days to keep raw (unaggregated) flows (if enabled) and alerts. Default: 30 days. **ClickHouse Aggregated Flows Data Retention** 60 Number of days to keep aggregated flows informations (it must be larger than unaggregated flows retention). Default: 60 days. 15 days of data vs 60 days of data!



...Historical Flows Clustering

Export flows from multiple ntopng towards:

- A single/stand-alone ClickHouse instance
- a ClickHouse Cluster

A ClickHouse cluster can provide redundancy, capacity, and performance





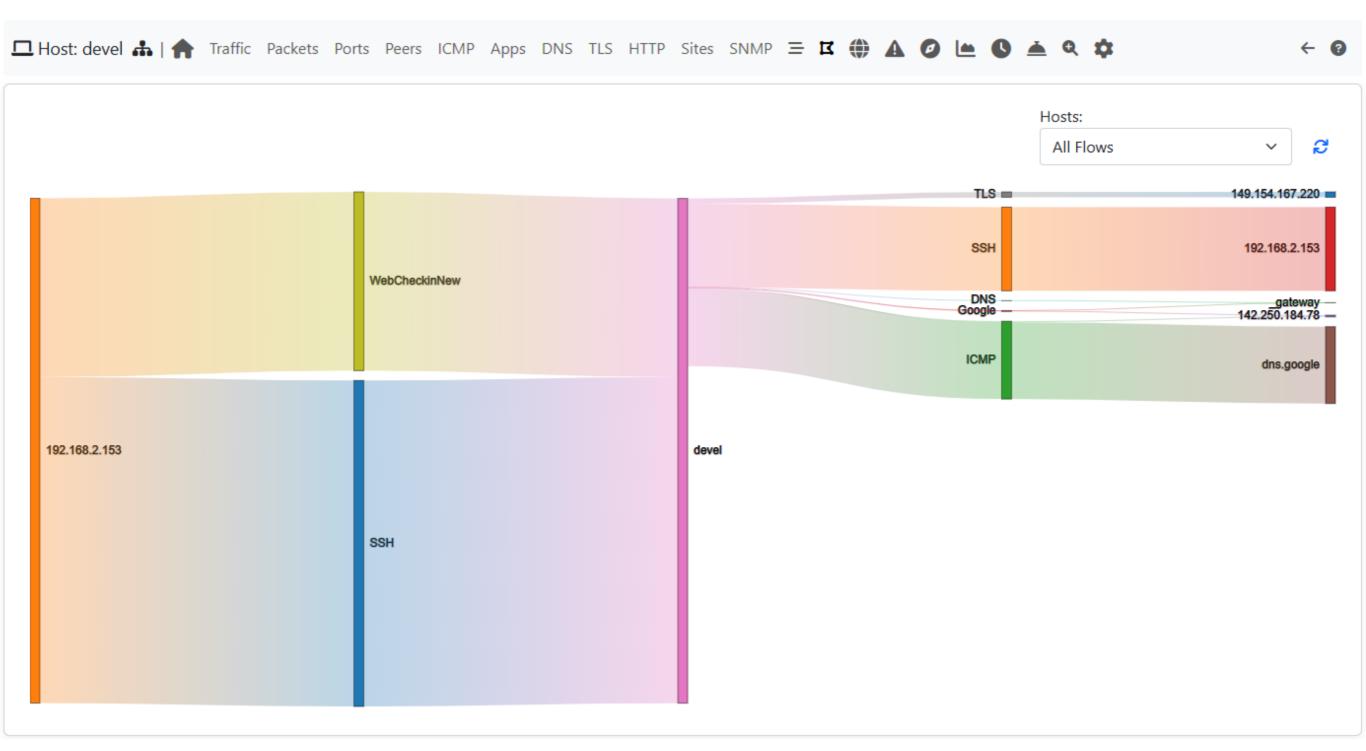
Many new pages to analyze the traffic and to the traffic what's happening:

- Live Flows Aggregation
- Asset Map
- Ports Analysis
- Host Sankey
- Networks
- Inactive Local Hosts
- •

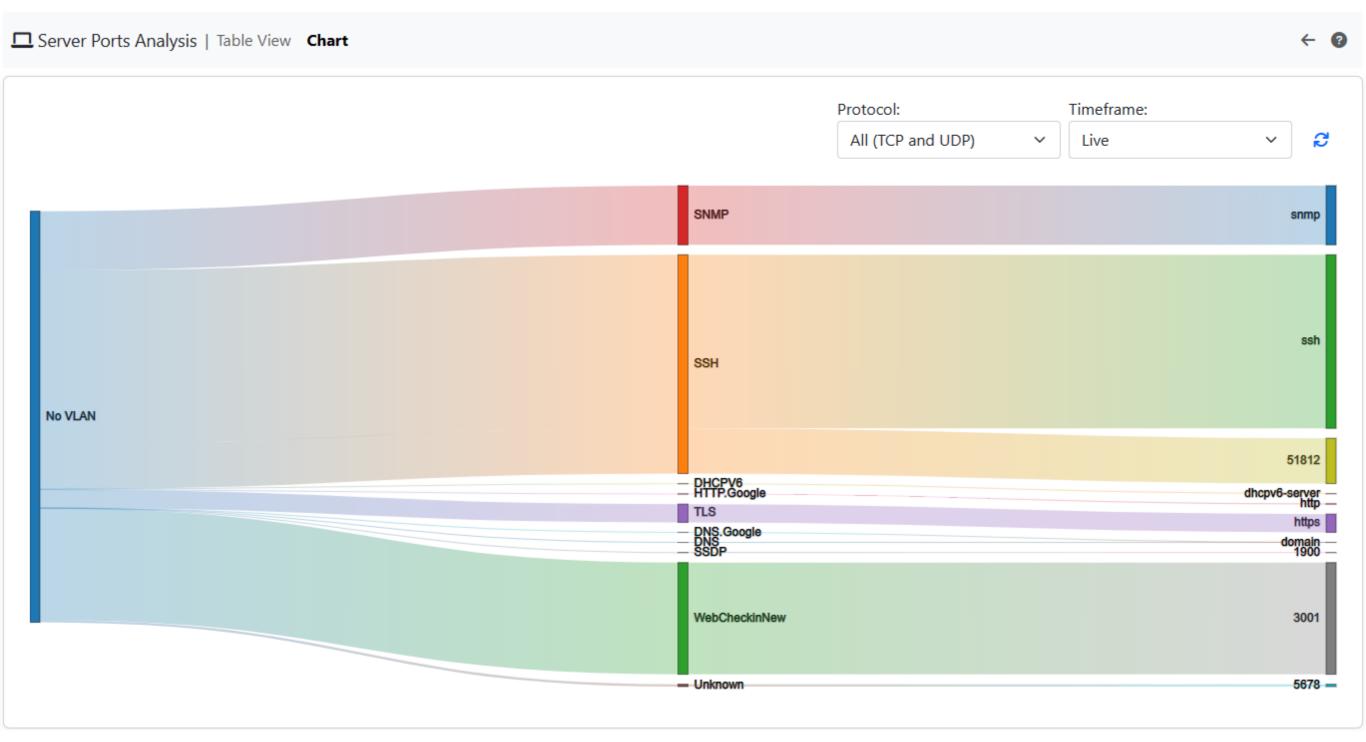


	/ App. Proto 🗸			-	. –]		0.	
Search:										
Client	Server	Application Protocol	Flows	Tot. Score	Clients	Servers	Breakdown	Traffic Sent	Traffic Rc	
192.168.2.153 🛦 🚺 🚠 Р 🛙	192.168.2.82 L 👪 P 🖵	HTTP Guess	1		1	1	Sent	60 Bytes	0 Byt	
192.168.2.153 🛦 🔃 🚠 P 🕻	192.168.2.82 L 🚠 P 🖵	TLS Guess	1		1	1	Sent	60 Bytes	0 Byt	
192.168.2.153 🛦 🚺 🚠 P 🕻	192.168.2.82 L 🚓 P 🖵		1		1	1	Sent	60 Bytes	0 Byt	
fe80::ec4:7aff:fecc:4c53 🔺 🚺	<mark>Р 🗖 ff</mark> 02::1:2 🛦 м 🗖	DHCPV6 DPI	1		1	1	Sent	98 Bytes	0 By	
fe80::20c:29ff:fe37:d05 🛦 🔃 🤇	о 🗖 ff02::1:2 🛦 м 🗖	DHCPV6 DPI	1		1	1	Sent	104 Bytes	0 By	
fe80::ec4:7aff:fecc:c44a 🔺 🚺	<mark>Р 🗖 ff02::1:2 🛦 м 🗖</mark>	DHCPV6 DPI	1	10	1	1	Sent	104 Bytes	0 By	
fe80::2e0:edff:fe1a:3456 🔺 🚺	<mark>Р</mark> ff02::1:2 А <u>М</u> 🗖	DHCPV6 DPI	1		1	1	Sent	104 Bytes	0 By	
fe80::20c:29ff:fe95:b14c 🔺 🔳	<mark>Р 🗖 ff02::1:2 🛦 м 🗖</mark>	DHCPV6 DPI	1		1	1	Sent	104 Bytes	0 By	
fe80::20c:29ff:fe4c:66b 🔺 🚺 🚺	р ff02::1:2 🛦 м 🗖	DHCPV6 DPI	1		1	1	Sent	130 Bytes	0 By	
192.168.2.198 🛦 🚺 🚠 🕑 🕻	224.0.0.251 A M 🗖	MDNS DPI	1		1	1	Sent	395 Bytes	0 By	
fe80::1459:d999:bf1c:26ee 🚺	<mark>Р Д</mark> ff02::fb M Д	MDNS DPI	1		1	1	Sent	495 Bytes	0 By	
devel 🛦 🚺 🚠 🦻 🗖	142.250.184.78 🛦 📼 🖪 🗖	G+ HTTP.Google	1	10	1	1	Sent Rcvd	510 Bytes	1.02	
devel 🛦 🚺 🚠 🦻 🗖	_gateway 🛦 🚺 🚠 P 💻	DNS DPI	7	30	1	1	Sent Rcvd	576 Bytes	875 By	
fe80::36db:fdff:fe80:d9a6 🛕 🚺	<u>Р</u> ff02::1:2 А М 	DHCPV6 DPI	1		1	1	Sent	648 Bytes	0 By	
192.168.2.198 🛦 🚺 🚠 🕑 🕻	239.255.255.250 A M 🗖	SSDP DPI	1	10	1	1	Sent	872 Bytes	0 By	

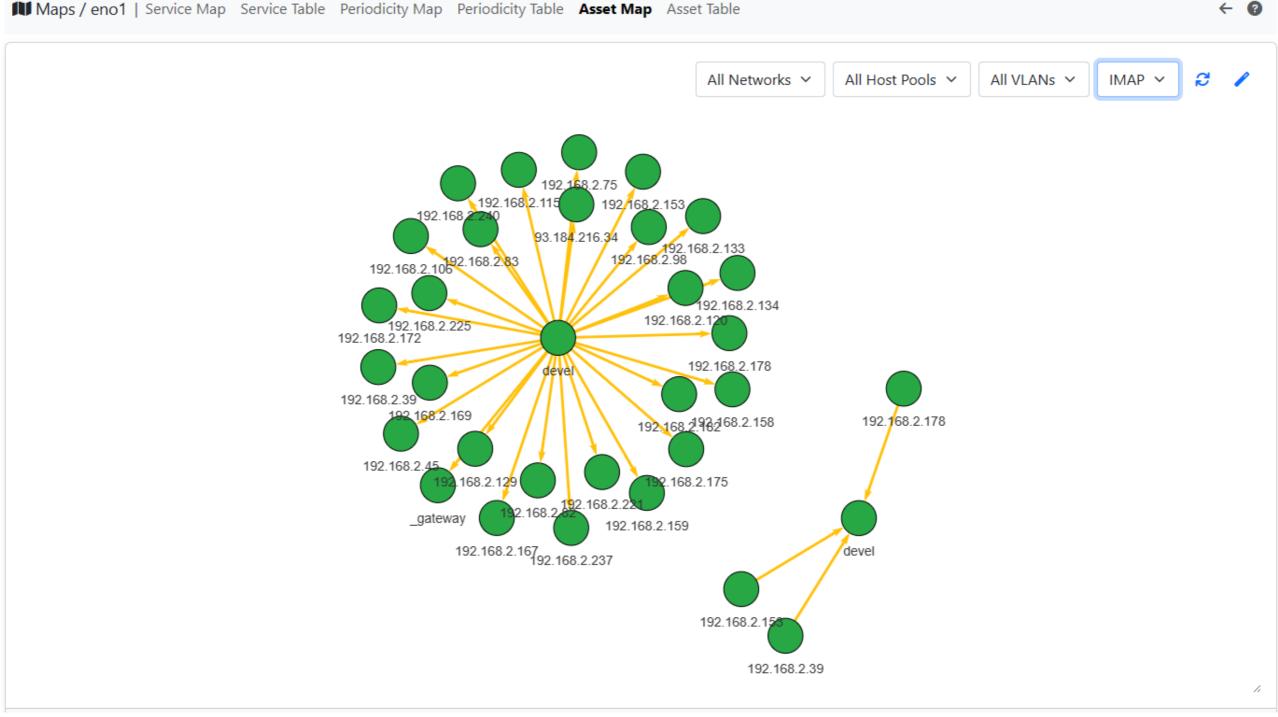
ntop@onf'23













Hosts | Active Inactive Local Hosts

Chart View

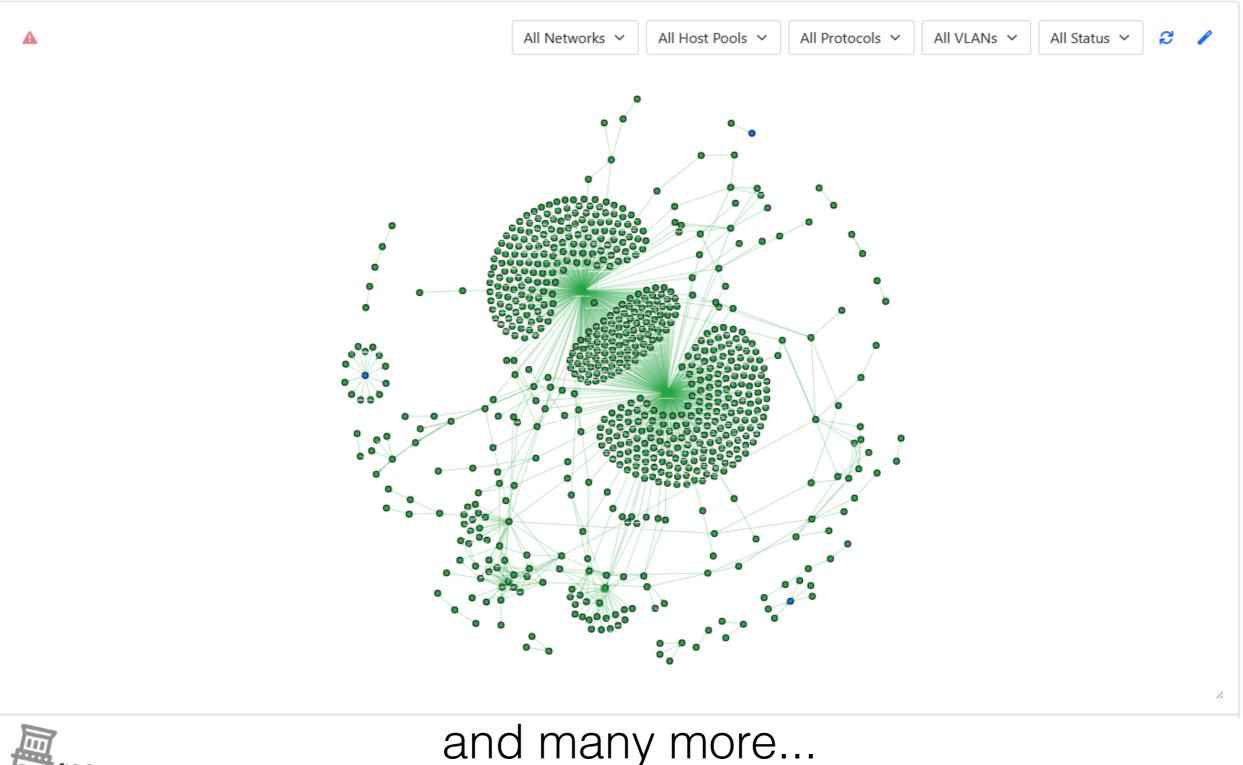
Table View

← 🔞

	-							
Actions	Host	▼ Name	MAC Address	Manufacturer	First Seen	Last Seen		
≣▼	192.168.2.240@384 [Test vlan]		28:B1:33:00:59:4D	SHINEMAN(SHENZHEN) Tech. Cor., Ltd.	08/23/2023 16:00:44	08/23/2023 16:00:4		
≣▼	192.168.2.240		28:B1:33:00:59:4D	SHINEMAN(SHENZHEN) Tech. Cor., Ltd.	15:28:44	15:28:45		
∎▪	192.168.2.237@2223 💠		00:04:96:E4:AA:CD	Extreme Networks, Inc.	08/23/2023 14:07:38	08/23/2023 14:07:3		
≣▼	192.168.2.230 💠		78:4F:43:59:14:68	Apple, Inc.	08/03/2023 14:51:15	08/03/2023 14:51:1		
≣▼	192.168.2.225@384 [Test vlan]		00:E0:ED:1A:34:56	Silicom, Ltd.	08/23/2023 15:46:59	08/23/2023 15:47:0		
≣▼	192.168.2.225		00:E0:ED:1A:34:56	Silicom, Ltd.	09/14/2023 11:20:21	09/14/2023 11:20:2		
∎▪	192.168.2.222@3880 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	08/30/2023 13:47:26	08/30/2023 13:47:2		
≣▼	192.168.2.222@3828 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	09/01/2023 10:15:50	09/01/2023 10:16:		
∎▪	192.168.2.222@3822 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	08/25/2023 13:00:51	08/25/2023 13:00:		
≣▪	192.168.2.222@3671 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	09/01/2023 10:00:14	09/01/2023 10:00:		
∎▪	192.168.2.222@3608 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	08/30/2023 09:00:34	08/30/2023 09:01:0		
	192.168.2.222@3533 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	08/30/2023 08:19:22	08/30/2023 08:19:		
≣▼	192.168.2.222@3522 💠	devel	00:25:90:D4:CC:F9	Super Micro Computer, Inc.	08/22/2023 16:45:01	08/22/2023 16:45:		



Maps / eno1 | Service Map Service Table Periodicity Map Periodicity Table Asset Map Asset Table





← 🛛

Vulnerability Scan (1/5)

- Analyze hosts in a network to discover vulnerabilities
- Discover open ports
- Manually or periodically scan single or multiple hosts



Vulnerability Scan (2/5)

₩ Vulnerability Scan 🛖 🔺 🖿 Open Ports													
Show 10	Show 10 V Entries												
Actions	Host	Host Name	Scan Type	CVEs	TCP Ports	Last Scan Duration	Last Scan Date	Periodicity	Last Scan Status 🔺				
	192.168.1.1	h388x.homenet.telecomitalia.it	CVE	3	6	02:24	12:19:29	Nightly	Success				
	192.168.1.6	host-004.homenet.telecomitalia.it	CVE			00:02 sec	11:18:57	Nightly	Success				
≡ -	192.168.1.10	host-002.homenet.telecomitalia.it	CVE	1,729	3	00:34 sec	11:26:05	Nightly	Success				
	192.168.1.16		CVE			00:02 sec	12:16:55	Nightly	Success				
	192.168.1.28	peppeasusi7.homenet.telecomitalia.it	CVE	5,518	3	00:08 sec	11:17:19	Nightly	Success				
	192.168.1.30		CVE			00:02 sec	12:09:50	Nightly	Success				
	192.168.1.88		CVE			00:02 sec	12:07:33	Nightly	Success				
	192.168.1.110		CVE		5	02:00	11:16:27	Nightly	Success				
	192.168.1.164		CVE			00:02 sec	12:08:17	Nightly	Success				
	192.168.1.60		CVE			00:02 sec	11:13:39	Nightly	Success				
Showing	page 1 of 4: total	37 rows						<	1 2 3 4 >				

Vulnerability Scan (3/5)

- Download/Show Scan Report
- Schedule Periodic Scan
- Show CVEs (Vulnerabilities)
- Scan Hosts on specific ports



Vulnerability Scan (4/5)

🕨 Vulnerability Scan | 🏫 🛕 值 Open Ports Scan Details

Vulnerability Scan Report of 192.168.2.172 at 11:17:45

22/tcp open ssh Dropbear sshd 2013.60 (protocol 2.0)

vulscan: cve.csv:

[CVE-2012-0920] Use-after-free vulnerability in Dropbear SSH Server 0.52 through 2012.54, when command restriction and public key authentication are enabled, al [CVE-2009-3340] Unspecified vulnerability in FreeSSHD 1.2.4 allows remote attackers to cause a denial of service via unknown vectors, as demonstrated by a certa: [CVE-2008-3234] sshd in OpenSSH 4 on Debian GNU/Linux, and the 20070303 OpenSSH snapshot, allows remote authenticated users to obtain access to arbitrary SELinu: [CVE-2006-5794] Unspecified vulnerability in the sshd Privilege Separation Monitor in OpenSSH before 4.5 causes weaker verification that authentication has been [CVE-2006-1283] opiepasswd in One-Time Passwords in Everything (OPIE) in FreeBSD 4.10-RELEASE-p22 through 6.1-STABLE before 20060322 uses the getlogin function -[CVE-2002-0460] Bitvise WinSSHD before 2002-03-16 allows remote attackers to cause a denial of service (resource exhaustion) via a large number of incomplete con

80/tcp open http ATEN/Supermicro IPMI web interface

vulscan: cve.csv:

[CVE-2013-4785] The web interface for Dell iDRAC 6 firmware 1.7, and possibly other versions, allows remote attackers to modify the CLP interface for arbitrary ([CVE-2013-4731] ajax.cgi in the web interface on the Choice Wireless Green Packet WIXFMR-111 4G WiMax modem allows remote attackers to execute arbitrary command: [CVE-2013-4028] Cross-site scripting (XSS) vulnerability in interface/main/onotes/officecommentsfull.php in OpenERR 4.1.1 allows remote attackers to inject arbit [CVE-2013-4038] The Intelligent Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) on IBM BladeCenter, Flex System, Syster [CVE-2013-4037] The RAKP protocol support in the Intelligent Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Module (IMM) and Integrated Management Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Platform Management Interface (IPMI) implementation in Integrated Management Module (IMM) and Integrated Management Module II (II [CVE-2013-3633] The web interface on Siemens Scalance X200 IRT switches with firmware before X-200IRT 5.1.0 relies on Cleint-side privilege checks, which allows [CVE-2013-3580] The Foundation webapp admin interface in GroundWork Monitor Enterprise 6.7.0 uses the nagios account as the owner of writable files under /usr/l [CVE-2013-3440] Multiple cross-site scripting (XSS) vulnerabilities in the administrative web interface in Cisco Dinified Operations Manager allow remote attacker [CVE-2013-3428] The web interface in Cisco Secure Access Control System (ACS) allows remote attackers t



Vulnerability Scan (5/5)

ow 10	 Entries 				Search: 🗖 🔁 🥑
ctions	Port	Service Name	CVEs	Count -	Hosts
	22	ssh	52,767	23	192.168.2.225, 192.168.2.221, 192.168.2.222, 192.168.2.106, 192.168.2.153
	80	http	53,402	16	192.168.2.221, 192.168.2.106, 192.168.2.167, 192.168.2.120, 192.168.2.133
	443	https	42,569	12	192.168.2.221, 192.168.2.167, 192.168.2.120, 192.168.2.133, 192.168.2.60
	3000	remoteware-cl	485	6	192.168.2.222, 192.168.1.60, 192.168.2.240, 192.168.2.178, 192.168.2.134
	5900	rfb	41,952	5	192.168.2.120, 192.168.2.133, 192.168.2.158, 192.168.2.172, 192.168.2.83
	9090	websm	59	4	192.168.2.221, 192.168.2.240, 192.168.2.134, 192.168.2.75
	9000	cslistener	474	4	192.168.2.39, 192.168.1.110, 192.168.2.178, 192.168.2.134
	53	domain	204	4	192.168.2.60,h388x.homenet.telecomitalia.it, 192.168.2.1, 192.168.2.59
	23	telnet	10,632	3	192.168.2.106, 192.168.2.169, 192.168.2.237
	135	epmap	5,518	3	peppeasusi7.homenet.telecomitalia.it, 192.168.1.30, 192.168.1.16



Local Traffic Rules (1/3)

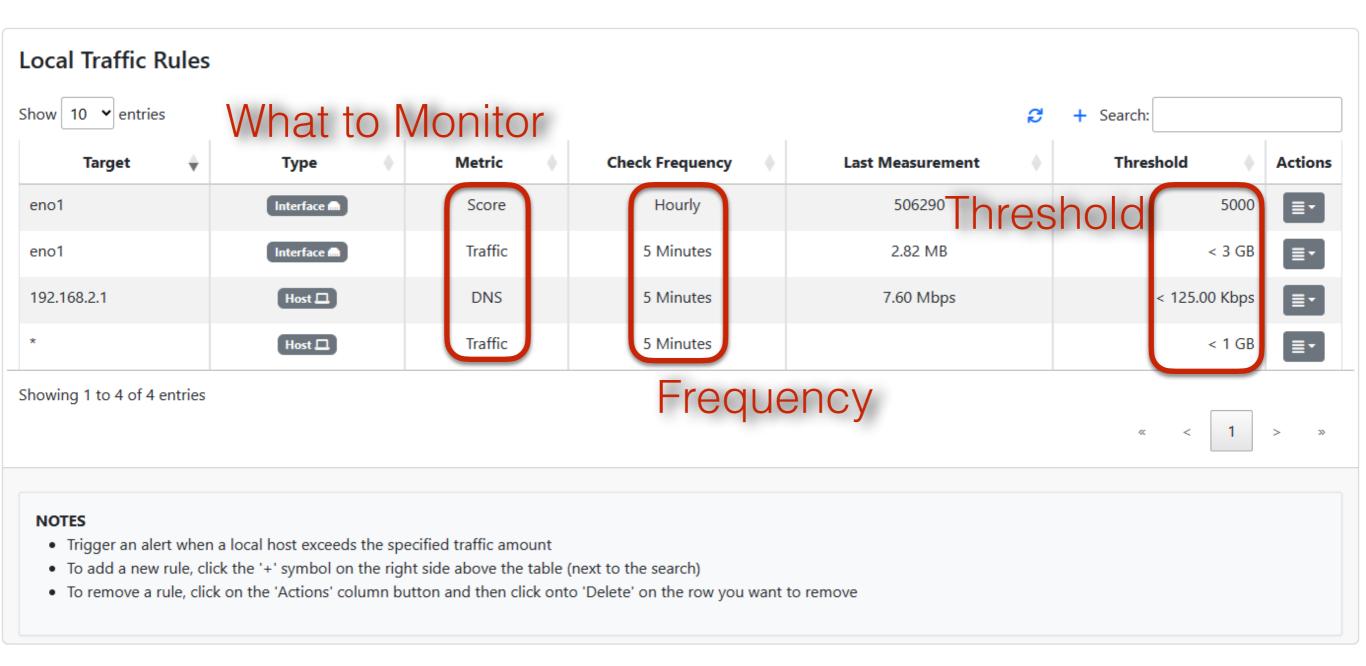
Monitoring SNMP devices / Hosts / Interfaces to unveil changes in traffic:

- Check periodically (every 5 mins, 1 hour, or 1 day) timeseries.
- Multiple metrics to check available (Traffic, Apps, Score, ...)
- When a configured Threshold is exceeded
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(Available only from Enterprise L license)

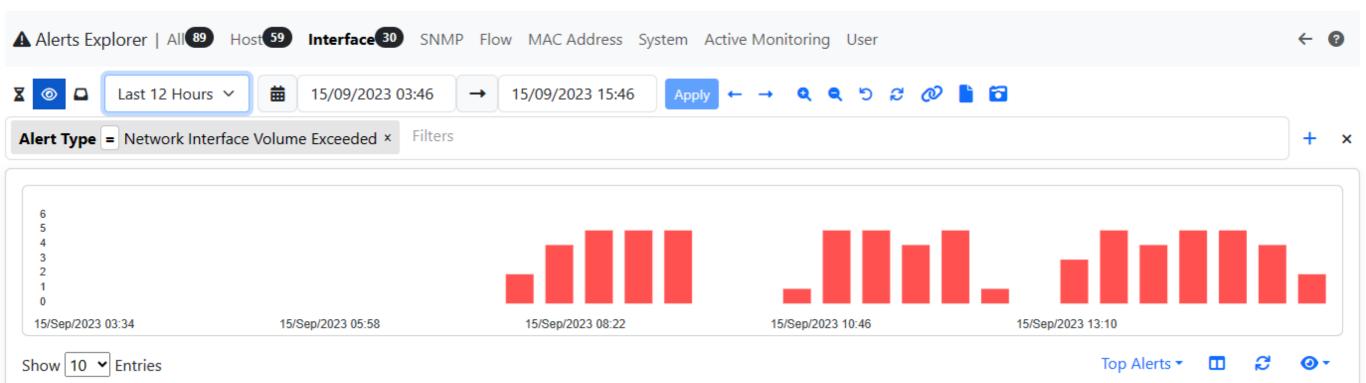


Local Traffic Rules (2/3)





Local Traffic Rules (3/3)



Actions Date/Time Score Duration Alert Culprit Description ≣▼ 08:06:33 00:56 [Interface: eno1] [Metric: iface:traffic] [Condition: 7.91 MB < 3 GB] [Check Frequency: 5 ... 100 Network Interface Vo... eno1 ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 357.37 KB < 3 GB] [Check Frequency: 5... ≣▼ 08:10:25 100 00:58 Network Interface Vo... eno1 ifa... ≣▼ 08:16:20 100 00:15 Network Interface Vo... eno1_ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 207.11 KB < 3 GB] [Check Frequency: 5... 08:21:21 00:48 Network Interface Vo... eno1_ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 217.97 KB < 3 GB] [Check Frequency: 5... ≣▼ 100 ≣▼ 08:26:29 00:58 Network Interface Vo... eno1_ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 250.39 KB < 3 GB] [Check Frequency: 5... 100 08:30:17 100 01:04 Network Interface Vo... eno1 ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 198.82 KB < 3 GB] [Check Frequency: 5... ≣▼ 08:36:58 100 00:27 Network Interface Vo... eno1_ifa... [Interface: eno1] [Metric: iface:traffic] [Condition: 176.29 KB < 3 GB] [Check Frequency: 5...



Integrations

Before:

- Discord
- Elasticsearch
- E-Mail
- Fail2Ban
- Slack
- Syslog
- Teams
- Telegram
- Webhook

Now:

- Discord
- Elasticsearch
- E-Mail
- Fail2Ban
- Mattermost
- PagerDuty
- Slack
- Syslog
- Teams
- Telegram
- TheHive
- Webhook



Integrations

- PagerDuty is one of the most commonly used software solutions for managing notifications
- TheHive a wide known platform for managing cybersecurity alerts
- Mattermost one of the most used business chat platforms



TheHive

	Platform Management / Platform status	E 💥 ENGLISH (UK) DEFAULT ADMIN USER 💽 🗸									
\rightarrow	Platform Management										
鱼	🗓 License 📉 Status © Branding Cortex MISP 🖄 Authentication 🖸 SMTP 器 Global Endpoints 🚍 LDAP servers										
<u> </u>	Database Schema status										
	Status Schema name	Schema version									
¢ ¢	OK thehive-enterprise	67									
	OK thehive	98									
×	OK thehive-cortex	2									
	Database integrity check										
	Control name	#Entities									
	Action	0 See details									
	Alert	1052 See details									
	AlertStatus	7 See details									
5.1.9-1	AnalyzerTemplate	214 See details									

Sending notifications to TheHive the Alert Entities count will increase



PagerDuty

gerDuty	Incidents	Services	People	Automation	Analytics	Int	tegrations	Status	Q Se	earch	
Incident	ts on Al	l Teams									
Your open incidents 198 triggered 12 acknowledged				1			All open incidents 198 triggered 12 acknowledged				
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Open Trig	ggered Ack	nowledged Res	solved Any	Status						Assigned to me	
Status	Priorit	y 🚽 Urgency 🕇	Title				Created \$	Ser	vice	Assigned	То
	t	High	[System] : ⊞ SHOW D	Process ETAILS (1triggered ale	rt) #	on Aug 16, 2023 #210 5:33 PM		3 at <mark>nto</mark>	png_service	Nicolo' Maio	
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	t	High		own Proto on Non S ETAILS (1triggered ale	-+)	rt on Aug 16, 2023 #207 5:29 PM		3 at <mark>nto</mark>	png_service	Nicolo' Ma	io





ntopng inline, designed to solve a few problems:

- Bind devices to users
- Specify per-user application protocol policies
- Protect the network from malware and connections
- Make sure that the available Internet bandwidth is shared evenly



nEdge Updates

- Added support for multi-LAN
- Added support for VLANs
- Added handling of DHCPd Service
- Improved RADIUS AUTH
- Added RADIUS ACCT





https://github.com/ntop/ntopng

