Flow Analysis

Make A Right Policy for Your Network

威睿科技GenieNRM





Resolve Network Managers' Challenge as follow:

- •How can I know the "Detail and Real-Time" situation of my network?
- How can I do "Load Balance" job among the Outgoing Links?
 How can I know the destination sites every "IP Block" belong to my network go to and the percentage of "Application" included on those flow?
- •How can I know "Who" connect to my network from outside? Is it attacking?
- •How I can estimate the "Growth" of my network?



Traffic Accounting Challenges GenieNRM

Cost •

- Adding RMON probes everywhere is very costly and this does not include cost of administering RMON probes
- Building solutions for viewing, monitoring, and managing traffic flows within a network is expensive
- Limited Visibility for Network Traffic Accounting
 - L2 Traffic Matrix, such as MAC Addresses, VLAN (802.1q) and Class of Service (802.1p) are not available
 - Visibility of traffic within some wiring closets is sometimes limited to port-based byte information only
- **Huge Impact to Network Performance** •



sFlow Technology – RFC 3176

Statistical Sampling Technology

- HP-patented and proven technology (over 10 years) that employs "Statistical Packet Sampling" and SNMP data to monitor network flows in a network.
- Most "Packet Sampling" implementations just use information within an IP packet (e.g., what about VLAN and SNMP information).

What is RFC 3176 – sFlow Technology

- sFlow is a "Statistical Sampling Technology" an Open Standard
- sFlow delivers full L2-L4 network-wide traffic flow information



The Details of RFC 3176



- Packet Header Analysis
 - MAC MAC
 - VLAN (802.1q and 802.1p)
 - IPv4 Header, including TCP, UDP, and ICMP
 - Pv6
 - IPX (FastIron 4802 or JetCore modules only)
 - AppleTalk (FastIron 4802 or JetCore modules only)
 - Input/output ports
- Next hop address
- Source AS, Source Peer AS
- Destination AS Path
- Communities, local preference
- User IDs (TACACS/RADIUS) for source/destination
- URL associated with source/destination
 - Interface Statistics (RFC 1573, RFC 2233, and RFC 2358)



Resources Occupation





Technology Comparison (1)

	MRTG	NetFlow	RMON-II	XRMON	sFlow
Control real-time congestion problems					
Real-time segment counters	Y	Ν	Y	Y	Y
Real-time top talkers	Ν	Ν	Y	Y	Y
In/out view on interface	1/2	1/2	Ν	Ν	Y
MAC address	Ν	Ν	Y	Y	Y
IPv4, ICMP, TCP, UDP	Ν	Y	Y	Y	Y
IPv6, IPX, DecNet4, AppleTalk, FrameRelay	/ N	Ν	Y	Y	Y
Plan for growth					
In/out view on interface	1/2	1/2	Ν	Ν	Y
MAC address	Ν	N	Y	Y	Y
IPv4, ICMP, TCP, UDP	Ν	Y	Y	Y	Y
IPv6, IPX, DecNet4, AppleTalk, FrameRelay	/ N	N	Y	Y	Y
Optimize BGP peering and routing policies					
Source/Destination/Peer AS	Ν	1/2	N	Ν	Y
Full AS Path	N	Ν	N	Ν	Y
IP-Next Hop	Ν	Y	Ν	Ν	Y



Technology Comparison (2)

Account and bill for usage					
VLAN	Ν	Ν	N	1/2	Y
IP-Subnet	Ν	Y	Ν	N	Y
IP/UDP/TCP source/destination	Ν	Y	Y	Y	Y
Priority	Ν	Ν	N	N	Y
Quantifiable flow accounting accuracy	N/A	N	N	Y	Y
Protect against security threats					
Real-time top talkers	Ν	N	Y	Y	Y
Real-time correlation of traffic & route	Ν	Ν	N	N	Y
Scalability					
Switch ports/collector	Medium	Bad	Bad	Good	Good
Wire speed	N/A	1/2	1/2	Y	Y
Switch/router resources	Medium	Bad	Bad	Good	Good
Configuration					
SNMP	Y	Ν	Y	Y	Y
Work through firewall - command line	Ν	Y	N	N	Y

Why RFC-3176 beats SNMP, RMON-I, GenieNI RMON-II and NetFlow

•

Support for Packet Header Capture (NO payload capture – key requirement for Service Providers)

Additional IP Information:

- Route Table and Next Hop Address
- Source and Destination
 AS
- Destination AS Path

- Packet and Byte Count, from Layer 2 up to Layer 4, based on
 - Input and Output ports
 - Interface SNMP Counters no SNMP polling required!
 - EtherARPs
 - VLAN (802.1q) and Class of Services (802.1p)
 - IPX and AppleTalk
 - IP Address, IP Subnets, and Type of Service (TOS Bits)
 - TCP, UDP, or ICMP traffic
 - Autonomous Systems
 - BGP Communities



Functions and Features

•Flow Monitor—

According to users' setting, display the graph of Traffic Rate, Volume, Packet and Session.

Traffic Monitor and alarm by different color light.

•Flow Analysis—

Discovery the problem of network by TOP N report.

•Snapshot—

Real-Time flow TOP N analysis in a short time, like X-ray. Users can get the source of attack immediately using this function. •Billing—

Count by Input and Output Volume.

•System Management—

User, Raw Data, Multiple Devices export Data



Traffic Monitoring

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According to users' setting, system will show the statues of traffic by different color light



Report





Report(Cont.)





Report Show by Weekly





Comparison Report





Trend Report



TOP N Report(Inbound Volume)



TOP N Report(Inbound Application)





Top N Class C Traffic





Top N IP Pair Traffic

Netelligent:即時流量報表 g: 練上報表g 基本分析 深入分析										ŧ	比迎 robin	1	
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		211.19.36.67 210.201.38.16 203.79.224.10	-> 211.19.36.67 i1 -> 210.201.38 0 -> 203.79.22	7 9.161	192	.168.73.82 -> 1 .168.73.199 -> .201.38.188 ->	92.168.73.62 192.168.73.199 210.201.38.188		3.9	5.73.199 -> 192. 1.73.199 -> 192.	00.172 168.73.199 168.73.199		
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	3	203.79.224.100	192.168.73.199	2623049	1.99%	210.201.38.188	192.168.73.208	5129	1.65%	192.168.73.199	202.1.237.21	1:	Time ranking
	4	211.72.254.6	192.168.73.199	2384742	1.81%	192.168.73.199	210.201.73.1	4019	1.30%	192.168.73.199	202.1.237.22	5	by ID pair
	5	168.95.4.178	192.168.73.1	1855198	1.41%	192.168.73.199	202.1.237.21	3569	1.15%	210.201.38.161	192.168.73.199	6	by IF pair
	6	210.201.31.236	192.168.73.199	1454822	1.10%	192.168.73.199	211.20.180.136	3463	1.12%	192.168.73.199	210.201.73.2	8	
	7	210.201.31.235	192.168.73.199	1401974	1.06%	192.168.73.199	210.139.255.223	3111	1.00%	192.168.73.199	210.201.31.226	E	
	8	192.168.73.208	211.19.36.70	1218654	0.92%	211.19.38.67	192.168.73.199	3098	1.00%	192.168.73.199	210.139.255.223	e	
	9	210.59.228.107	192.168.73.1	1030358	0.78%	210.201.38.161	192.168.73.199	2918	0.94%	192.168.73.199	211.20.180.136	E	
	10	210.59.228.107	192.168.73.1	1021060	0.77%	192.168.73.199	202.1.237.22	2650	0.85%	192.168.73.199	198.133.219.25		







流量監控	流量分析	即時流量報表	系統管理					
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c	IP画校	來源端: 目的端:				· · · · · · · · · · · · · · · · · · ·		
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	I	的精制路速罩	255 255	255	255			



etellig	ent:即時流量	报表: 線上相	要				数理 robi	n	登出	
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2	240.52.04.438	644403	6.94%	210.52.178.146	2554	4.05%	240.03 422 254	254	2.61%	
-	210.83.121.25	121144	3.40%	210.53.19.67	2489	3,435	210.83 186 44	127	1.30%	
4	211.162.78.111	301010	3.10%	210.52.84 199	1996	3,13%	211.162.78 111	110	1.13%	
5	218 104 53 84	279496	2.95%	218.104.53.87	1709	2.82%	240.83,432 224	100	1.12%	
6	210.83.40.25	253792	2.684	210.52.178.150	1480	2.32%	210.83.133.26	108	1.11%	
7	210.02.145.54	253774	2.68%	210.82.57.7	1293	2.03%	211.161.255 249	103	1.06%	
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2	210 83 173 174	13767304	3.68%	240.52 249.64	2145	2.64%	240.83.407.264	770	173%	not norm
3	210.83 107 254	10587794	2.76%	210 52 207 130	1577	1.92%	210.83 122 251	611	1.36%	not nom
4	210.51.215.220	10092562	2.63%	210.52.178.150	1546	1.88%	210.83.183.45	483	1.08%	
5	210.83.226.132	8454506	2.46%	210.52 213 467	1499	1.835	218 242 13 61	433	0.96%	
6	211.144.94.64	9385222	2.4.4%	218 104 53 84	1401	1.715	210.83.43.60	374	0.83%	
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Netellig	ent Version 3.1												
9	GenieNRM	Genie	Network	Resource A	Aanaaemer	t Inc							
流量監控	流量分析	即時流量報表	系統管理	L									
Netell	ligent:即爬	就量報表。	课入分析	0			歡迎 robin 準備						
基本													
指定區	指定區域流量分布 🕜												
C	自治區號	來源端:	_				目的端:		Analysis				
G	10100	来源端:					來源橫剌路進罩:		the site to				
	PER	目的道: 205	236	. 147 . 2	53		目的端昇始進章:255 255 255 255		find the				
 介面 													
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	流出介面	: 介面序	就	介面敘述									
目標型	8 0												
			在此選項「	F,會有兩份	報告 inbour	d 和	outbound 前 N 流量的清單.						
•	目沿區変		Inbound	3456 有 10 : 所有指向所	MB和35% B i要報告ASB	的流血 的流量	1 99 .						
			在此選項「	ド・會報告以	AS 鸡基礎的	n thic	對流量.						
C C	一對自治區號		例如,AS 因爲這一類	3455 到 AS 时是由流量的	7865 有 101)方向所組成的		Rank by IP						
	IP區段	利路這章	255	255 255	255	-							
							ADDARD THE ADDARD IN 17 YO RE THAT THE READ ADDARD ADDA						
		來源端網路這罩	255	255 255	255		利田返卓印派圧是高力研究軍的臺牌単位、初期, 255.255.0 及用 熱心新り siace CIP 医砂螈其成的注意						



DDOS Detect

流量監控	流量分析 即	時流量報表										
Netelligent:即時流量報表:線上報表 ₀ 歡迎 robin 登出												
基本分析 深入分析												
Source IP/IP block distribution (IP Outbound)												
Rank	Src. IP	Volume (by	(tes)	Src. IP	Pac	:kets	Src. IP	Ses	sion	The recul		
Total		1686624	100.00%		35138	100.00%		35138	100.00%	The resul		
1	206.7.229.34	96	0.01%	206.7.229.34	2	0.01%	206.7.229.34	2	0.01%	is there a		
2	211.78.156.146	96	0.01%	211.78.156.146	2	0.01%	211.78.156.146	2	0.01%	is.more a		
3	211.244.209.244	48	0.00%	211.244.209.244	1	0.00%	211.244.209.244	1	0.00%	more that		
4	210.175.215.175	48	0.00%	210.175.215.175	1	0.00%	210.175.215.175	1	0.00%			
5	193.101.199.101	48	0.00%	193.101.199.101	1	0.00%	193.101.199.101	1	0.00%	40.000		
6	206.42.201.42	48	0.00%	206.42.201.42	1	0.00%	206.42.201.42	1	0.00%	,		
/	64.44.72.44	48	0.00%	64.44.72.44	1	0.00%	64.44.72.44	1	0.00%	clients at		
8	128.100.130.100	48	0.00%	128.150.130.150	1	0.00%	128,150,130,150		0.00%			
9	211.204.217.204	48	0.00%	211.204.217.204	1	0.00%	211.294.217.294		0.00%	the site in		
10 206.81.201.81 48 0.00% 206.81.201.81 1 0.00% 206.81.201.81 1 0.00%												
Rank	Dst. IP	Volume (by	(tes)	Dst. IP	Pac	Ses	sion	same um				
Total		1686624	100.00%		35138	100.00%		35138	100.00%			
1	205.236.147.233	1686624	100.00%	205.236.147.233	35138	100.00%	205.236.147.233	35138	100.00%			
Back												

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Raw Data Store





sFlow Devices Subscribe

6	Netelligent Version GenieNF 在量監控 流量分	n 3.1 RM)析 即時蒗	Genie Netw 量報表 系	vork Resourc 統管理	e Managemen	it Inc.			Q		
Netelligent:系統管理 ₂ :sFlow設備 ₂											
使用者 原始數據 SFlow設備											
	New Modify D	elete								Sampling	
	▲設備IP位址	▲設備名稱	sFlow埠號	自治區號	封包取樣	容用状態	▲啓用者	▲ 建立日期	備註		
	• 192.168.75.254	test	2049	5566	2	Active	megi	2002-05-21 11:39:08+08		function	
	0 210.244.30.62	210.244.30.62	9876	5566	2	Active	megi	2002-05-21 16:35:03+08			
	▼設備P位址	▼ 設備名稱	sFlow埠號	自治區號	封包取樣	更新狀態	▼ 啓用者	▼ 建立日期	備註		
	* sFlow is a Trade	emark of Foundr	y System,Inc		Page	1/1					

Flow-based Billing/Accounting GenieNRM

- •Bandwidth on Demand
 - -Administrator/Customer Selection thru Web
 - -Rate-Limit Adjust
 - -Billing Policy Selection
- •Billing Model
 - –Flat Rate
 - -Billing by Bandwidth Demanding
 - -Billing By Flow
 - -Hybrid (Base + Over-usage)



Advantage and Difference

- It's Real-Time Analyzer, not by Log
- It's an Appliance, easy to install and maintain
- Build-in Data Base
- Web Interface
- Can hand on large flow up to 2.5G by modules designed.
- Easy to set filters then display the traffic report
- Easy to find the source of attack



Genie Netelligent Structure







GenieNRM Visualize your Virtual Service Thank You!