

Cyber Security Incident Response: Understanding the Norm in Your Environment



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A Stranger at Dinner: Cyber Security Incidence Response – Are you as Secure as You Think?

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The value of complete visibility...



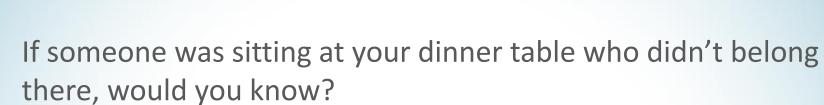
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• How do you protect your important assets?



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Consider your home...

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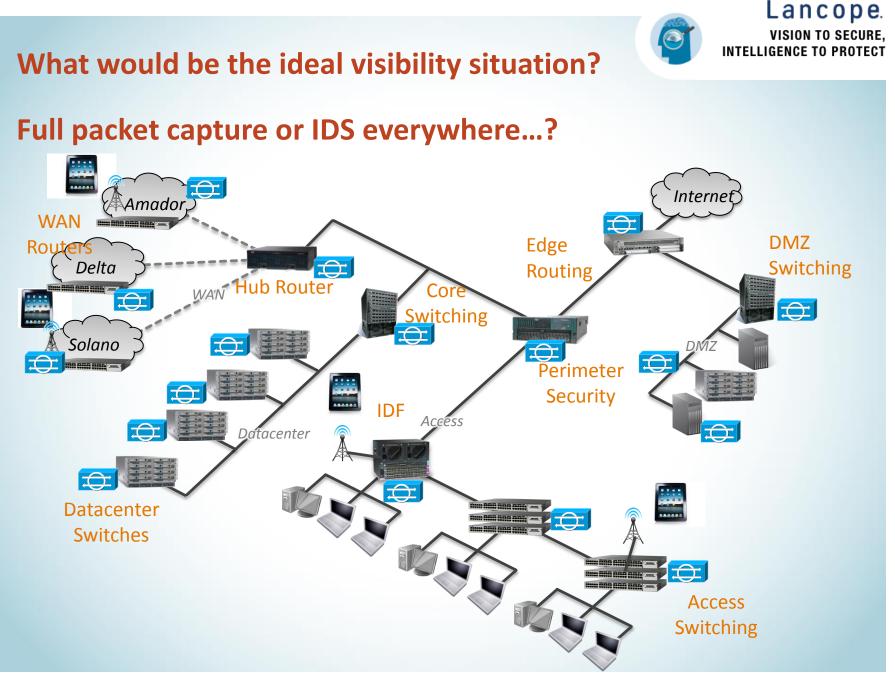


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Protecting your home

- We all have walls, doors and locks. We teach our kids to keep doors closed and locked.
 - This is an example of **perimeter defense** and a **security policy**.
- We also pay attention to our surroundings. We have visibility into our environment. We know when something is out of place. And we act accordingly.
 - Security of our home is effective because we know what belongs and what doesn't. We know what's normal.
- If your child walked in with a swollen, red arm, **you would notice**. You would act. You would assess the situation and escalate to the appropriate resource if necessary. You would ensure the problem was remediated.
- We could not secure our homes without walls, doors and locks. And we could not secure them if we did not have visibility, nor if we did not know what was normal.
- We need these things for our electronic asset security as well.



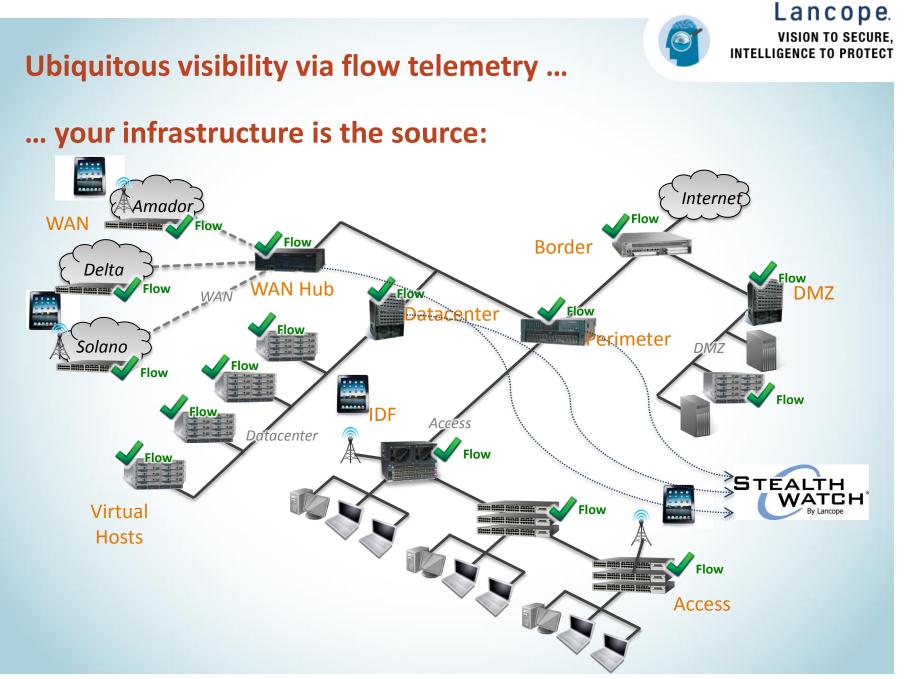
Visibility via Flow Metadata



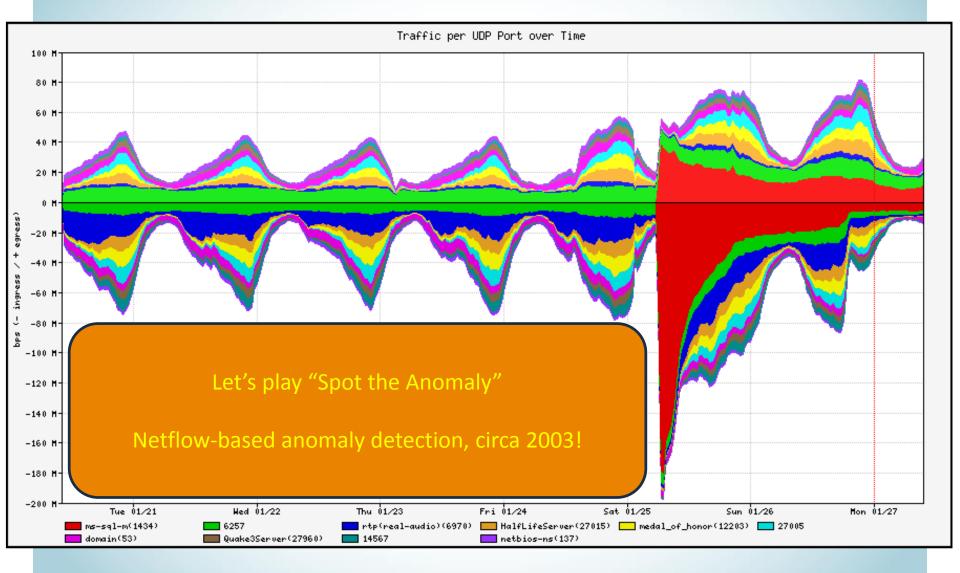
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1 WED 02/17/2010			-8688 INCOMING CL	2 7ES			0.00						
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15 FRI 02/26/2010		404-936	Apr 12, 2010 8:41:56		10.20	1.3.96	Sales and M	Marketing	72.21.202.	.71		http (80/tcp)	4.64M
16 FRI 02/26/2010		678-725	(6 hours 32 minutes 10s								United States		
17 FRI 02/26/2010		678-725	Apr 12, 2010 8:43:14		10.20	1.3.96	Sales and M	Marketing	216.165.129	9.141	E Line de Canada	http (80/tcp)	2.65M
18 FRI 02/26/2010		678-485	(6 hours 30 minutes 52s								United States		
19 FRI 02/26/2010		678-485	Apr 12, 2010 8:45:51		10.20	1.3.96	Sales and M	Marketing	68.142.118	3.82	LimeLight Networks	http (80/tcp)	2.51M
20 FRI 02/26/2010		678-485	(6 hours 28 minutes 15s		10.00								1.021
21 FRI 02/26/2010		678-485			10.20	1.3.96	Sales and M	Marketing	72.21.202.	.96	United States	http (80/tcp)	1.83M
22 FRI 02/26/2010	9:54PM	678-485	Apr 12 2010 6-52-49		10.20	2.2.05	Color and I		10 202 1 1			Luce = (0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	1 5 4
23 FRI 02/26/2010		404-432	Apr 12, 2010 6:52:48 (8 hours 21 minutes 18s		10.20	1.3.96	Sales and M	larketing	10.202.1.2	223	Engineering	http-alt (8080/tcp)	1.5M
24 FRI 02/26/2010	/ 11:15PM	404-432	Apr 12 2010 7:22:53		10.20	1.3.96	Sales and M	Jacksting	10.202.1.2	222	Engineering	http-alt (8080/tcp)	969.39k
25 SAT 02/27/2010		678-485	(7 hours 51 minutes 13s		10.203	1.5.90	Sales and in	larketing	10.202.1.2	223	Engineering	http=alt (0000/tcp/	303.338
26 SAT 02/27/2010		678-777	Apr 12 2010 12:13:13		10.20	1.3.96	Sales and M	Aarketing	10.202.1.2	223	Engineering	http-alt (8080/tcp)	952.79k
27 SAT 02/27/2010		678-485	(3 hours 53s ago)		10.20	1.3.50	Juies and	larketing	10.202.1	225	Engineering	http-uit (0000) tep,	552
28 SAT 02/27/2010		678-485	Apr 12 2010 9:02:34		10.20	1.3.96	Sales and M	Marketing	72.233.96.2	254	<i>(</i>)	http (80/tcp)	823.24k
29 SAT 02/27/2010		404-519	(6 hours 11 minutes 32s			115150	54.65	iun ite in g		2.5.	United States		
30 SAT 02/27/2010		678-947	Apr 12, 2010 8:43:36		10.20	1.3.96	Sales and M	Marketing	72.167.164	1.64	<u> </u>	http (80/tcp)	699.28k
31 SAT 02/27/2010		678-485	(6 hours 30 minutes 30s								United States		
32 SAT 02/27/2010		678-485	Apr 12, 2010 8:57:33		10.20	1.3.96	Sales and M	/arketing	72.21.202.	165	<i>(</i>	http (80/tcp)	644.78k
33 SAT 02/27/2010	9:40PM	404-457	(6 hours 16 minutes 33s	s ago)							United States		
			Apr 12, 2010 10:16:50		10.20	1.3.96	Sales and M	Narketing	10.201.0.	15	Sales and Marketing	ldap (389/tcp)	530.9k
			(4 hours 57 minutes 16s	s ago)									
			Apr 12, 2010 8:43:35		10.20	1.3.96	Sales and M	Marketing	63.245.217	7.21	2	http (80/tcp)	372.67k
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Statistical analysis and pattern recognition



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Thank You

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