

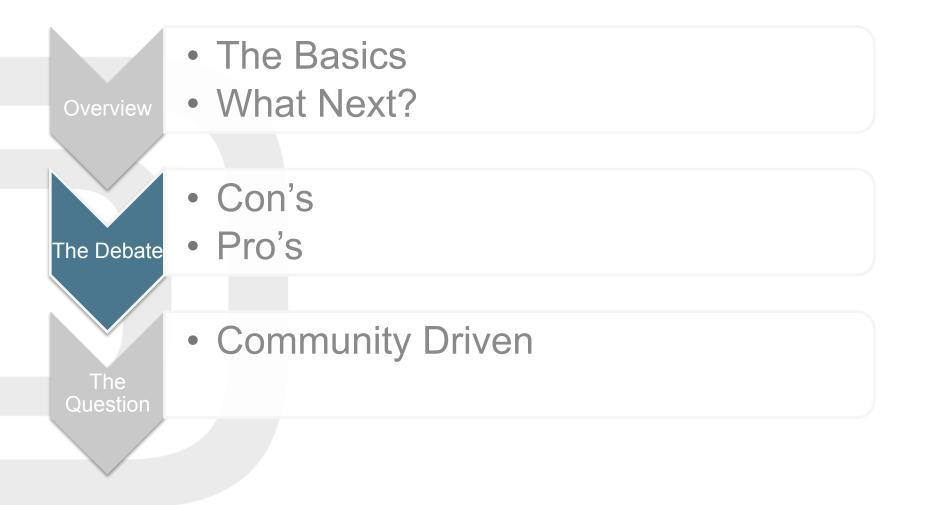
Protect. Connect. Grow.

IX Data Collection- The Big Question?

by Andrew Owens - NAPAfrica



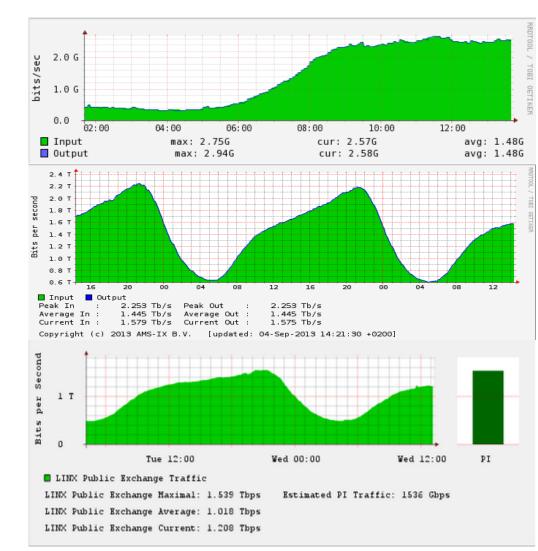
Agenda



The Basics

What you should be monitoring?

- **Aggregate Traffic** Overall performance of exchange
- **Per Interface Traffic** Per peer contribution
- **Route Collector** Prefix Analysis, Debugging, Optimisation



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What Next?

Deeper traffic Analysis – sFlow, Netflow, jFlow, IPFIX

- Protocol Analysis
- Application Analysis
- Source and Destination Conversations***
- Security Analysis

Is it the IXP's Job?

IN OUT Last Month Report - From: 2011-09-11 11	33 To: 2011-10-11 11:33	
pplication Application Groups Top Sites		Protocol Distribution C Showing 1 to 10 View per page 10
Application	Traffic(Total: 1.5 GB)	% of total traffic
Unknown_App	624.83 MB	41%
🐸 compressnet	78.33 MB	5%
🛏 echo	39.29 MB	3%
teinet	39.22 MB	3%
🛎 rip	39.21 MB	3%
🛏 dsp	39.19 MB	3%
ssh ssh	39.18 MB	3%
e chargen	39.15 MB	3%
🔺 rje	39.08 MB	3%
🐸 discard	39.05 MB	3%
	Showing 1 to 10	
p Traffic - ApplicationIN		
	192.168.26.93 [IfIndex1] 💦	



🛛 Uriknown_App 🔲 tepmux 📕 smtp 📒 ftp-data

192.168.118.10

000010 AF11 000110

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The Con's

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Intellectual Property: Network data is the intellectual property of the members and an organisational asset.

Trust: Will the IXP use data unethically?

Security: Can the IXP securely store the data?

Spying: Can this be considered as spying?



The Pro's

Stability: Identify bad traffic on the exchange

Support: Help troubleshoot

Strategic introductions: Ensuring the peers obtain maximum value from the exchange

Visibility: Assist bi-lateral peers

Security: Detection of security threats

Marketing: Using data to promote the exchange

Planning: Capacity planning



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The Question?

Why would an exchange need that data?

Is it a great value add?

Resources: Providing smaller peers access to tools?

Exchange Growth: Keep in touch with who peers are routing to?



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Thank you andrew@napafrica.net