# APNIC: Solving problems for our community

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#### A bit about me

- I started my journey in the RIR world working as a Hostmaster and Policy Officer at LACNIC in August 2010
- I then had some technical roles:
  - Networks and Security Engineer
  - Senior Security and Stability Engineer
- I started working with APNIC as a Data Scientist more than 2 years ago
- I've always suffered from Impostor Syndrome





## **Agenda**

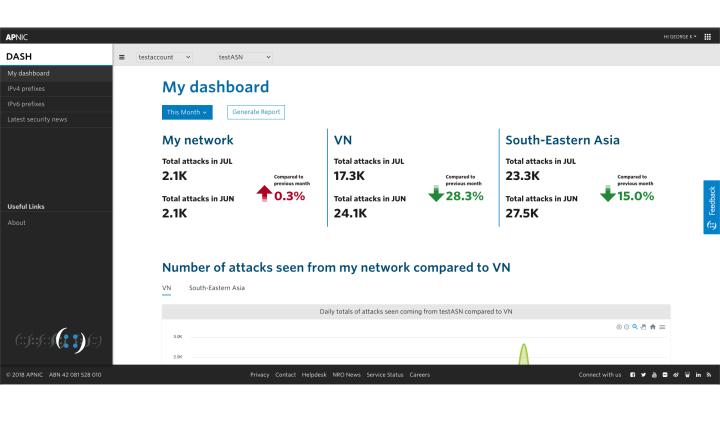
- Information Services Product family:
  - DASH (Dashboard for Autonomous System Health)
  - NetOX (Network Operators tool boX)

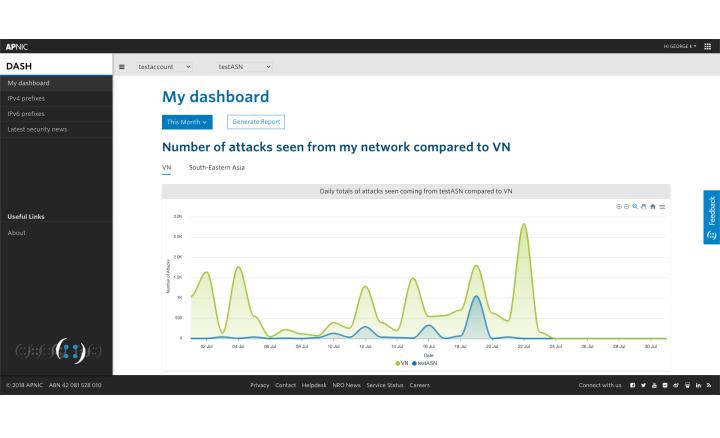


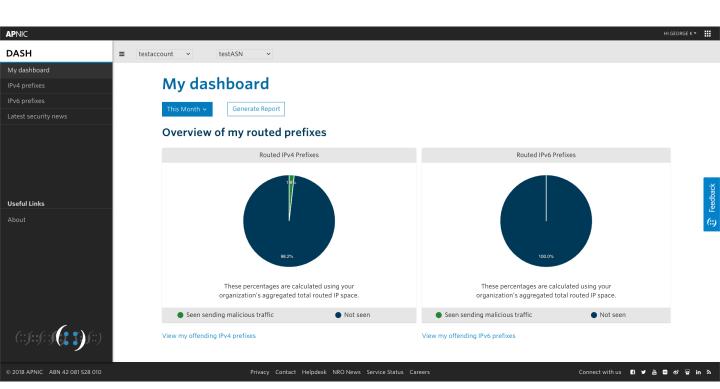
# DASH (Dashboard for AS Health)

- Dashboard for resource holders that shows information about malicious traffic seen by our honeypots originated at IP addresses managed by the user
- Currently just a prototype:
  - Only showing information about SSH attacks
  - More features pending to be implemented
- Short video available: <a href="https://dash.apnic.net/about">https://dash.apnic.net/about</a>
- Preparing soft launch with set of Members who would find interesting info in the current version of the product

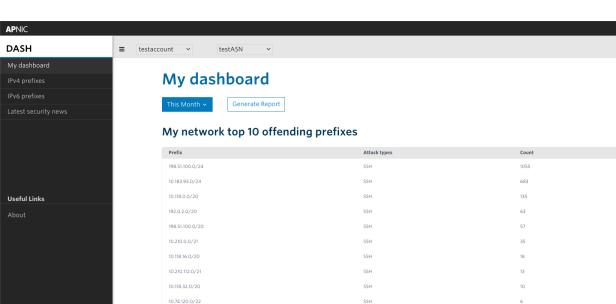












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#### **DASH – Use Case**

I've received an alert from APNIC DASH: 20 % of my IPv4 addresses have been seen sending malicious traffic!

I better check which prefixes may be compromised.

(Logs in to DASH)

It seems two of the networks we use for corporate customers may have devices infected with malware. I'll talk to them to get their networks checked.

Top 10 offending prefixes (This Month)		
Attack	Count	
SSH	110	
SSH	105	
	<b>Attack</b> SSH	

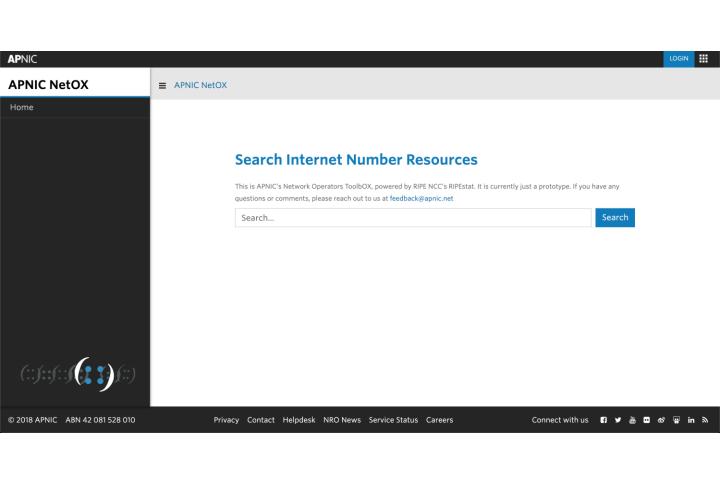




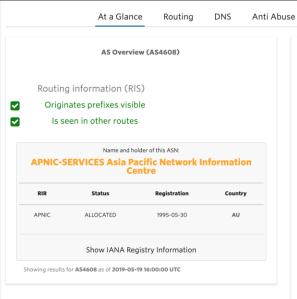
# **NetOX (Network Operators ToolbOX)**

- Set of tools that helps network operators interact with other networks
  - Solving routing issues
  - Deciding which other networks to connect to
- Working in collaboration with the RIPE NCC
- Currently RIPEstat with an APNIC 'look & feel'
- Available at: https://netox.apnic.net









#### Whois Matches (AS4608) ▼ Whois results (1) Show more fields aut-4608 num as-APNIC-SERVICES name Asia Pacific Network Information Centre descr Regional Internet Registry for the Asia-Pacific Region descr descr 6 Cordelia Street PO Box 3646 descr South Brisbane, QLD 4101 descr Australia country AU ORG-APNI1-AP org mnt-by APNIC-HM ▶ Routing registries results (0) Showing results for AS4608 as of 2019-05-20 01:35:00 UTC

Activity

Geographic

Database





#### **NetOX** in the future

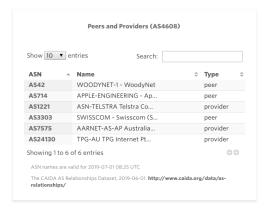
- Exploring how to implement features to solve validated problems:
  - Bringing points of contact and other data (?) from PeeringDB
  - Easily visualizing upstream providers for a given ASN
  - Bringing data from IRRs, for automation of route filters
- Exploring idea of creating shared knowledge base for network operators



I'm considering hiring a new upstream provider. I wonder how well interconnected AS 4608 is??



They probably offer good robustness as they have three providers.



Yoshi



I'm having some routing issues. AS 4608 seems to be filtering one of my prefixes.



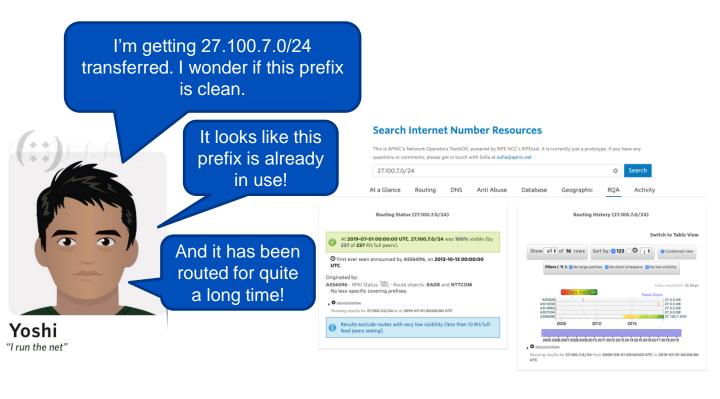
I've tried contacting the WHOIS PoC but they were not very responsive.

There must be a better contact for this type of issue.

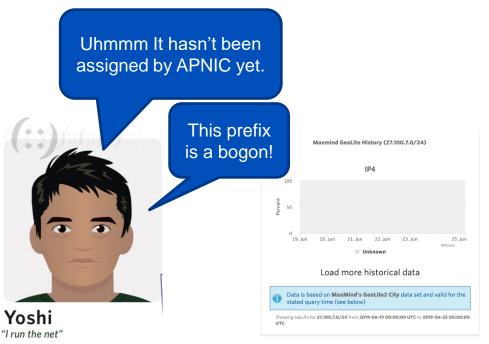
Peeringdb contacts (AS4608)  Contact info			
Infrastructure Services	Technical	peering@apnic.net	+617 38583100
Network Operations	NOC	noc@apnic.net	+617 38583100

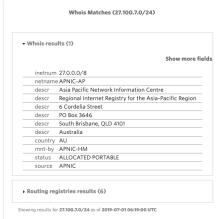
Yoshi







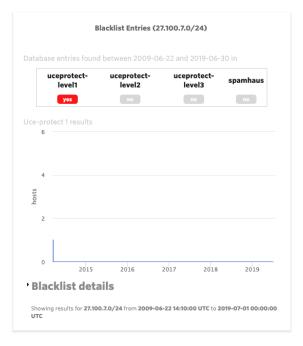














# **Summary**

- We are working on products to offer info to network operators
  - DASH (Dashboard for AS Health)
  - NetOX (Network Operators toolboX)
- We want to hear FROM YOU!
  - Do you see value in these products?
  - Do you want to provide any feedback?
  - Do you want to participate in interviews, testing sessions, etc.?



# **THANK YOU**

