APNIC Information Services for Network Operators

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Our aim

- Provide meaningful information services to the communities APNIC serves
- In network operations:
 - Offer tools that will help you make better-informed network decisions, solve routing issues and deal with potentially malware infected devices
- Listen and learn about your most common issues so we can work together to find solutions that meet your needs



Agenda

- Update on products for network operators:
 - NetOX (Network Operators' toolboX)
 - DASH (Dashboard for Autonomous System Health)

APNIC Community Insights program

Opportunities for you to have a say



NetOX

- What is it?
 - Set of **tools** for network operators
- What can you do with it?
 - Analyse your (and other) networks to:
 - Solve routing issues
 - Make better-informed network decisions
- Categories:
 - At a glance
 - Quality Check
 - Routing
 - Anti Abuse

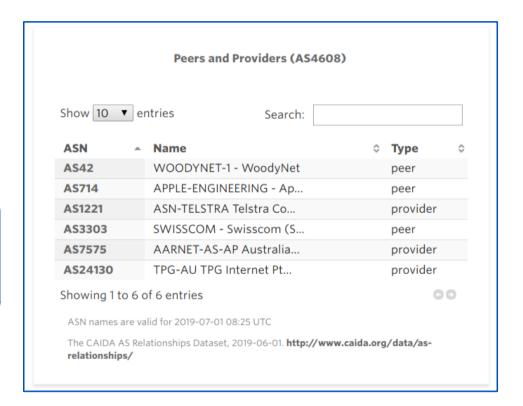
- Database
 - Geographic
 - Activity
- Working in collaboration with the RIPE NCC
- Available at: https://netox.apnic.net



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.





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.

Contact info				
Name	Role	Email	Phone	
Infrastructure Services	Technical	peering@apnic.net	+617 38583100	
Network Operations	NOC	noc@apnic.net	+617 38583100	



I'm getting 27.100.7.0/24
transferred. I wonder if this prefix is clean.

It looks like this prefix is already in use!

And it has been routed for quite a long time!

Yoshi

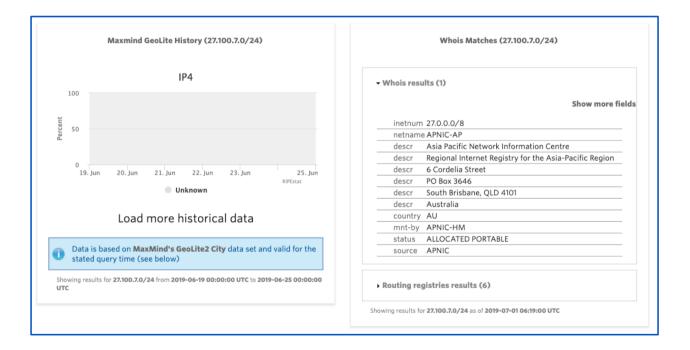




Ummm, it hasn't been assigned by APNIC yet.

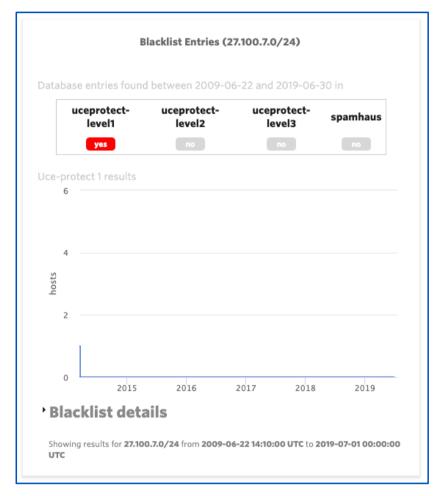
This prefix is a bogon!

Yoshi











NetOX - What are we busy with?

Welcome page to clearly communicate value proposition

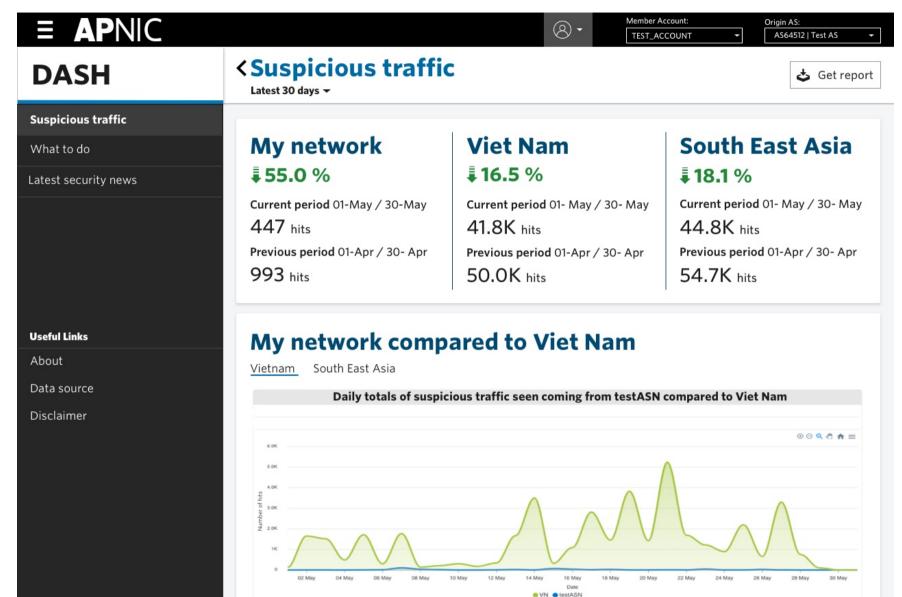
- Validation of ideas for new widgets to help network operators evaluate whether to connect to other networks
 - We will soon run a survey! Would you like to participate?



DASH

- What is it?
 - Portal for APNIC resource holders
- What can you do with it?
 - Be informed about suspicious traffic seen coming from your network
 - Compare suspicious activity coming from your organization's network against your economy or sub-region
 - Generate a report summarizing your network's situation
 - Get additional insights from the APNIC security team about the suspicious activities detected
 - Stay on top of relevant security news







DASH

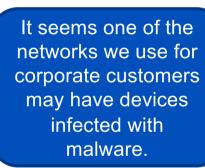
- How does it work?
 - DASH collects data from a distributed honeypot network that is part of APNIC's Community Honeynet Project
 - Read more: https://blog.apnic.net/2019/09/17/the-apnic-community-honeynet-project/
- Short video available: https://dash.apnic.net/about

 It's been a prototype for a while BUT DASH v1.0 will be released soon!



DASH – Use Case

I've seen in DASH that some of my prefixes have been seen sending suspicious traffic!





I'll download a list to talk to them and ask them to get their networks checked.



Type a prefix

My network top offending prefixes

Prefix	Protocols / Destination port	Hits
192.168.5.0/24 🔺	IP	547
192.168.5.15	Destination port: 1111	120
192.168.5.49	Destination port: 2222	98
192.168.5.68	Destination port: 3333	20
192.168.5.112	Destination port: 4444	15
192.168.5.135	Destination port: 5555	11



Q

DASH - Use Case

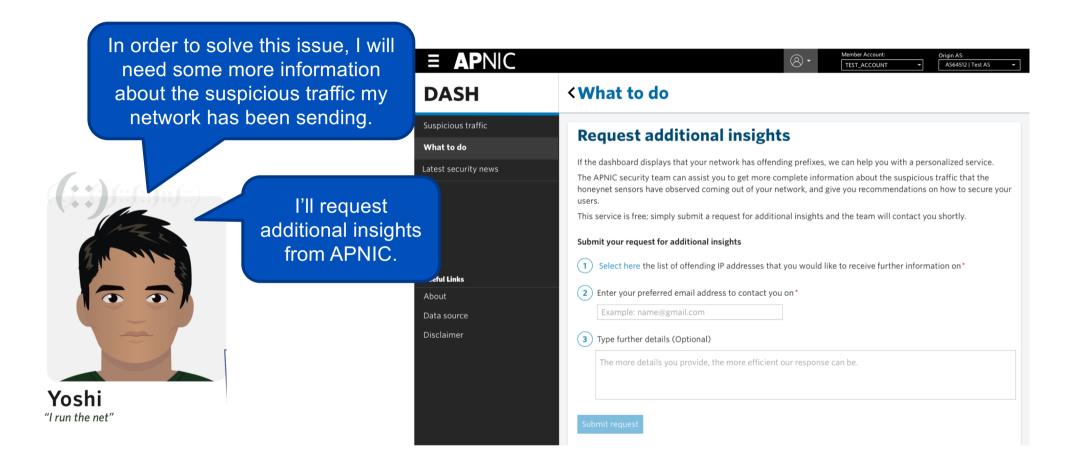
I'll download a PDF report to share the situation of our network with my manager and discuss it with him.



Yoshi
"I run the net"



DASH – Use Case





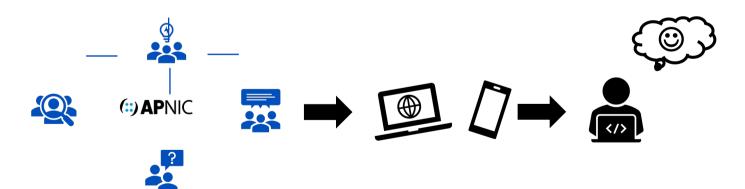
DASH - What are we busy with?

- Baking DASH v1.0!
- Main features:
 - Welcome tour (giving a few tips to start using the site)
 - Information about suspicious traffic at the IP level
 - All protocols and destination ports collected by honeynet sensors now available through DASH
 - Request for additional insights from APNIC security team



APNIC Community Insights Program

- We are working hard to focus on you and your needs
- To understand your needs we are setting up a group of people who are interested in helping us create better products and services for everyone
- YOU can have an impact on the way APNIC develops products
- Let us know if you want to be heard!
- Sign up at: https://www.apnic.net/your-say





Have a say

NetOX

 Participate in a survey about how network operators evaluate whether to connect to other networks

DASH

- Give us your feedback about DASH v1.0
- Sign up to the Community Insights Program and you will be invited to participate in user research activities
- Use the Feedback button in our products to:
 - Provide suggestions
 - Report bugs



Summary

- We are working on products to offer information to network operators
 - NetOX (Network Operators' toolboX)
 - DASH (Dashboard for AS Health)
- 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, and so forth?







