# 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 Aug 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 in 2017
- I've always suffered from Impostor Syndrome





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#### Impostor syndrome

From Wikipedia, the free encyclopedia

Not to be confused with Capgras delusion, in which a person believes that a loved one has been replaced by an impostor.

**Impostor syndrome** (also known as **impostor phenomenon**, **impostorism**, **fraud syndrome** or the **impostor experience**) is a psychological pattern in which an individual doubts their accomplishments and has a persistent internalized fear of being exposed as a "fraud".<sup>[1]</sup> Despite external evidence of their competence, those experiencing this phenomenon remain convinced that they are frauds, and do not deserve all they have achieved. Individuals with impostorism incorrectly attribute their success to luck, or as a result of deceiving others into thinking they are more intelligent than they perceive themselves to be.<sup>[2]</sup> While early research focused on the prevalence among high-achieving women, impostor syndrome has been recognized to affect both men and women equally.<sup>[1][3]</sup>



It's estimated that 70 percent of the U.S. population has experienced what's known as impostor syndrome.

Source: https://www.nbcnews.com/better/health/how-impostor-syndrome-holding-you-back-work-ncna814231



## Information Services Products

- ID (Internet Directory)
- DASH (Dashboard for Autonomous System Health)
- NetOX (Network Operators tool boX)
- Internal Information Services
- Exploring other ideas



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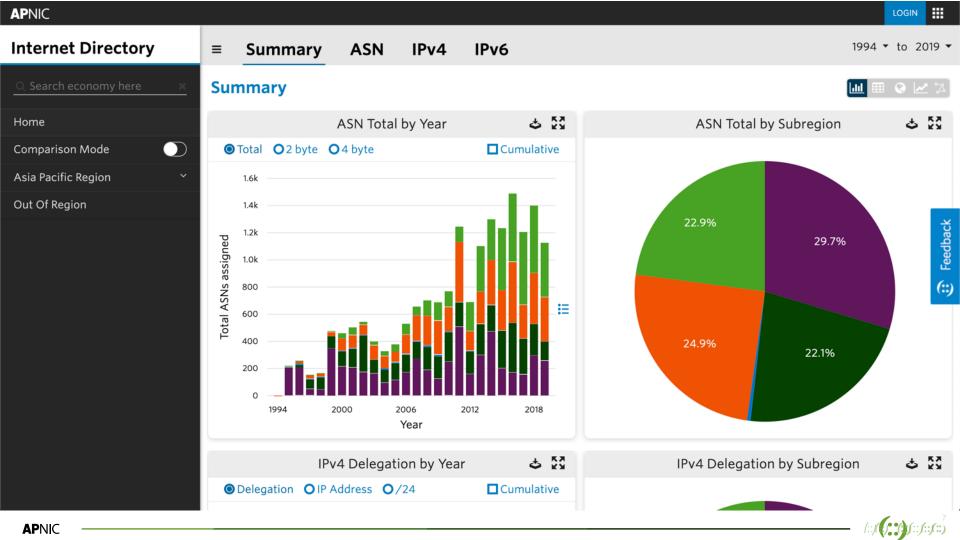


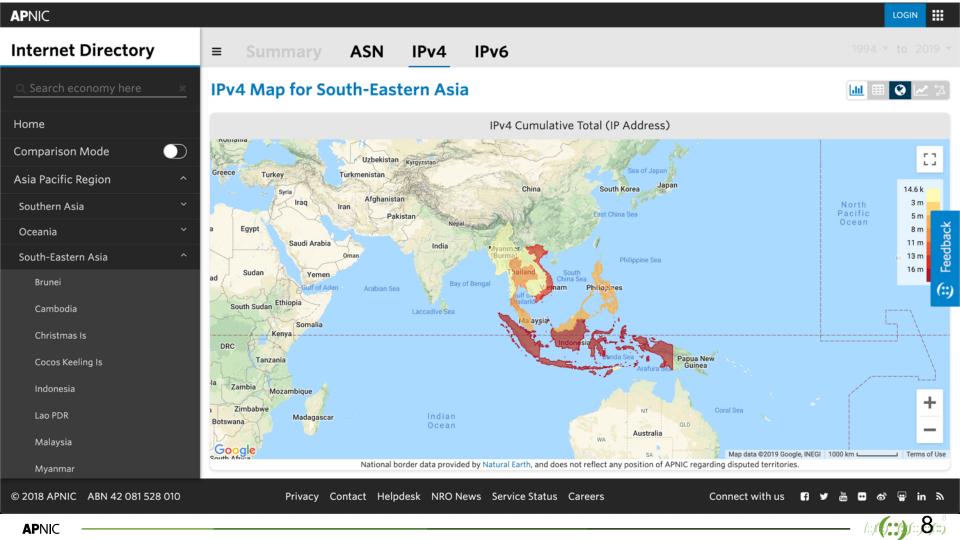
# **ID** (Internet Directory)

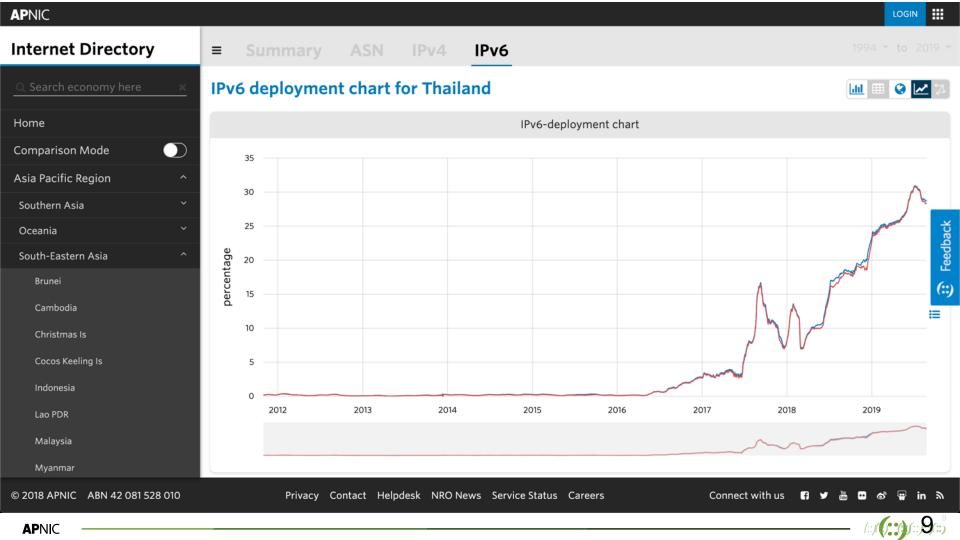


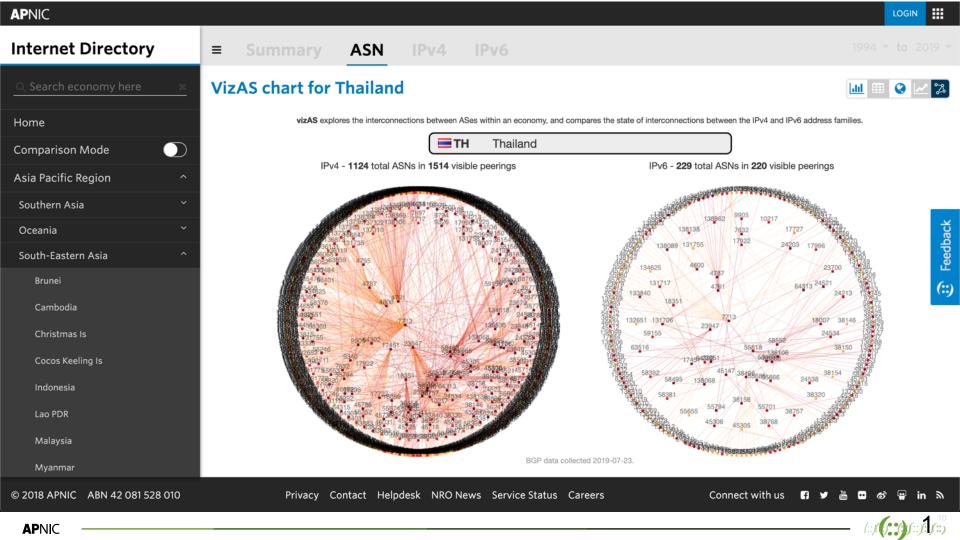
https://directory.apnic.net











# **ID (Internet Directory)**

 Portal that provides data on how Internet number resources are distributed and used in the AP region

Rebuilt and launched a new version in Sep 2018

- New(-ish) features:
  - IPv6 deployment charts
  - Comparison mode
    - AP region, sub-regions, economies
    - For delegations and IPv6 deployment charts
  - Visualization of interconnection of ASes (VizAS)
  - Web components (You can now easily embed plots anywhere!)



## ID (Internet Directory) – What's next?

- Working on:
  - Clearly defining what's the Unique Value Proposition of the ID
  - Who the main target audience is

- Working on continuous improvement
  - Your feedback is most welcome!

- It has evolved a lot since it was born (quite a few years ago!)
  - Maybe it needs a new name?

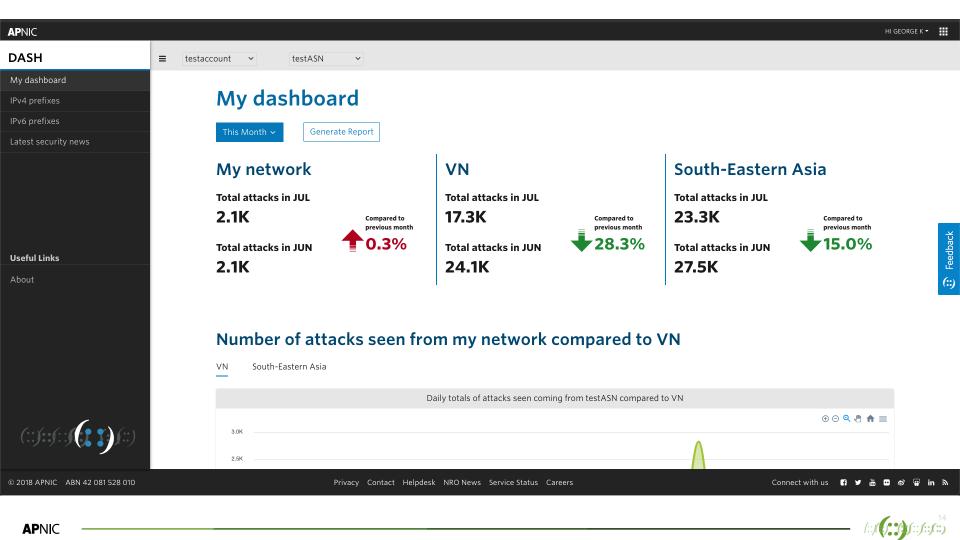


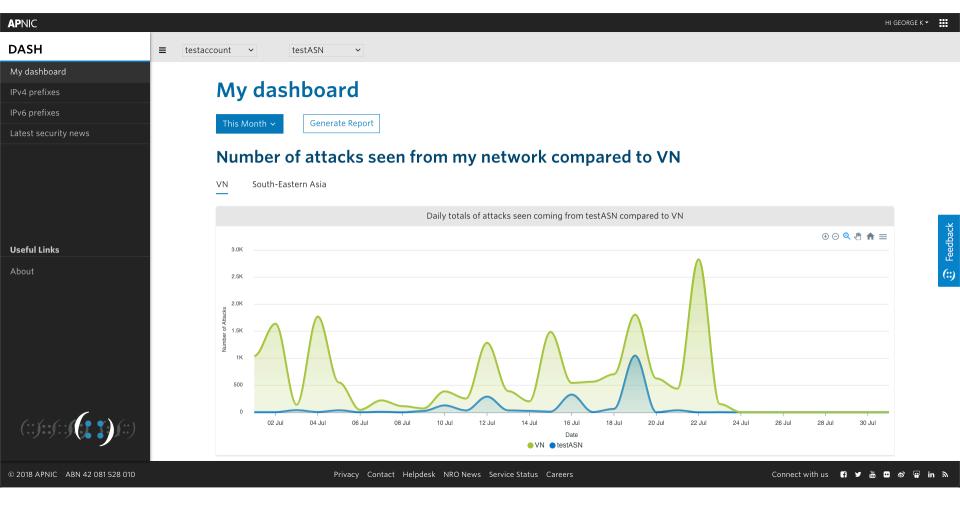
## DASH (Dashboard for AS Health)



https://dash.apnic.net







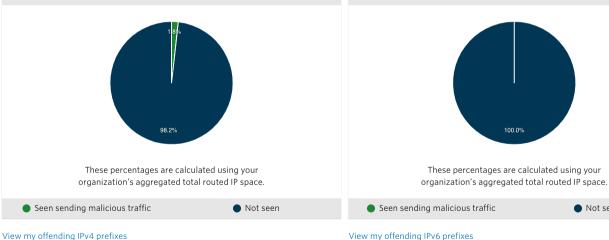
**APNIC** 

#### My dashboard

Generate Report

#### Overview of my routed prefixes

Routed IPv4 Prefixes



View my offending IPv4 prefixes

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Feedback

Routed IPv6 Prefixes

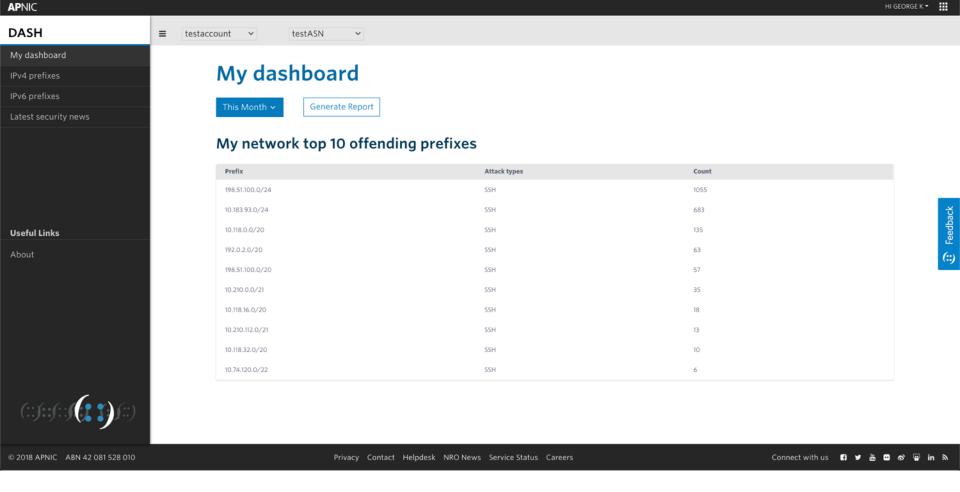
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**AP**NIC

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# DASH (Dashboard for AS Health)

- Dashboard for resource holders that shows information about suspicious 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: https://dash.apnic.net/about

- Currently:
  - We had interviews to understand motivations and behaviors (during APNIC 48)
  - Preparing soft launch with set of Members who would find interesting info in the current version of the product

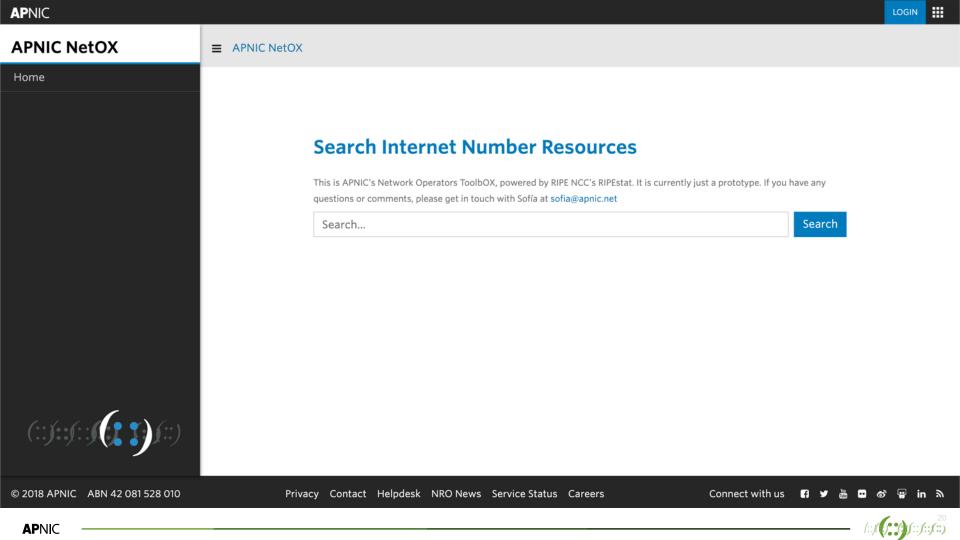


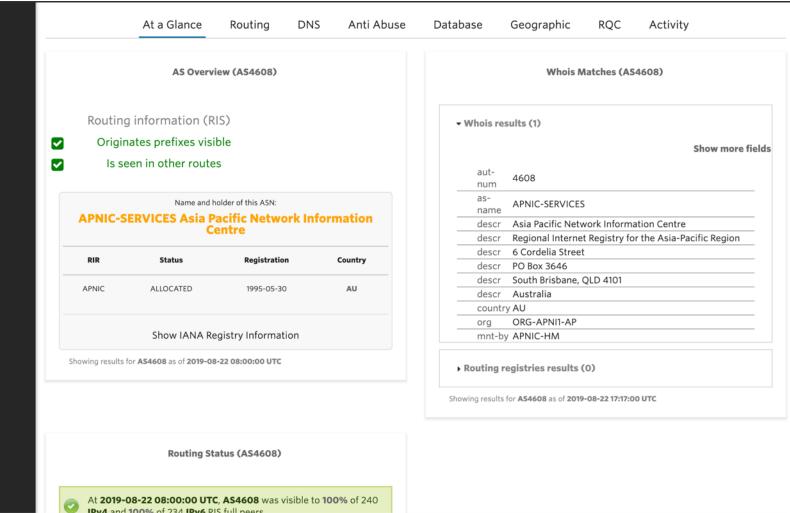
## **NetOX (Network Operators ToolbOX)**



https://netox.apnic.net











# **NetOX** (Network Operators ToolbOX)

- Goal: To be a 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'
  - Better performance from the AP region
  - Building additional widgets to cover identified needs



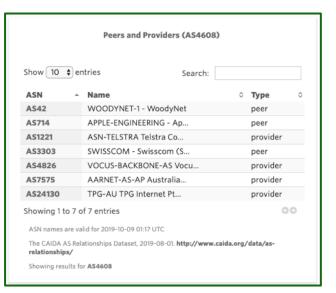
## **NetOX** in the future

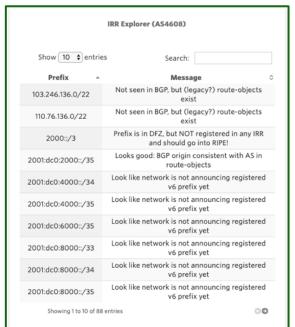
- Exploring how to implement features to solve validated problems:
  - Bringing points of contact and other data (?) from PeeringDB
  - Easily visualizing upstream providers for a given ASN
  - Bringing data from IRRs, for automation of route filters

- Exploring idea of creating shared knowledge base for network operators
  - We run some interviews during APNIC 48
  - We are now exploring alternatives to implement the idea



## Some new widgets







Show 10 💠 entries			Search:			
Name 🔺	Phone	\$	Email	<b>\$</b>	Source	<
CTM Mcenter	+853 8891 221	1	mcenter@services.ctm.net		whois	
CTM NMC	+853 8891 219	8	mcenter@services.ctm.net		peeringDl	В
CTM NMC	+853 8891 221	1	mcenter@services.ctm.net		peeringDl	В
CTM NMC	+853 8891 221	1	mcenter@services.ctm.net		peeringDl	В
CTM NOC			noc@macau.ctm.net		peeringD!	В
CTM NOC			noc@macau.ctm.net		peeringDl	В
CTM NOC	+853 8891 221	1	noc@macau.ctm.net		whois	
IRT-CTM-MO			noc@macau.ctm.net		whois	





### **Questions? Comments? Feedback?**

# **THANK YOU!**

