

APNIC Information Services

TWNOG 3.0

Taipei, Taiwan

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The “NIC” in APNIC

- Provide the APNIC community with highly accessible and useable data for Internet number resources

Collecting regional industry data

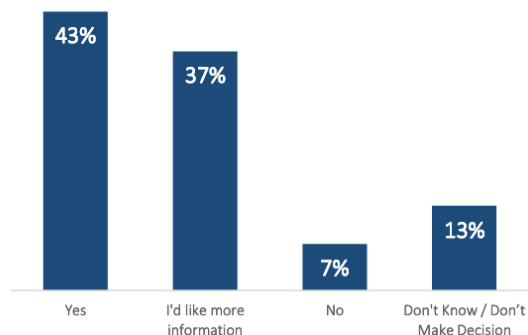
It was suggested during focus group discussions that, as an independent source of regional information, APNIC is in a position to facilitate information collection and sharing.

Another 37% indicated they wanted more information before deciding. Only 7% of respondents were not interested in contributing, while 13% either didn't know or did not make the decision.

Comments suggest that privacy concerns are the main reason for those who wanted more information, and

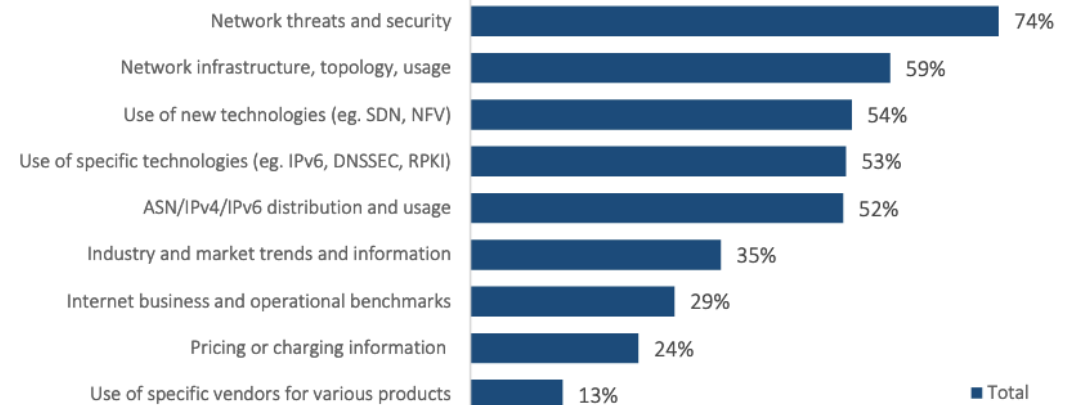
Q 24 - Interest in contributing to trend and benchmark information

(n = 798) (Presented to APNIC Members only)



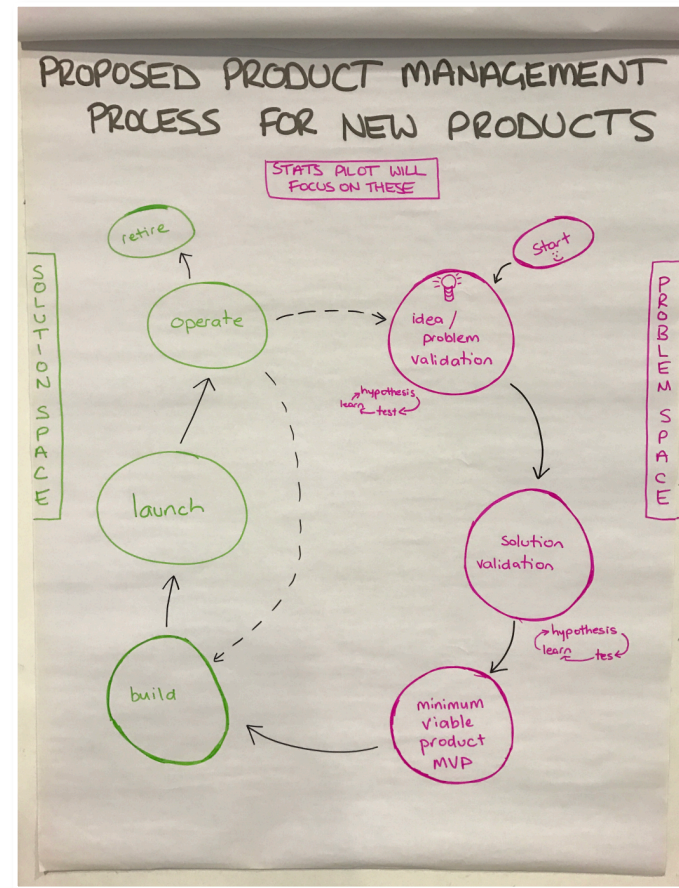
Q 28. The APNIC community is discussing the development of Internet trend and benchmarking data services. What information would be of most use to your organisation?

(All respondents: n=1241; Total mentions: 4896)



How?

- A new product management approach to developing APNIC systems and services
 - Registry, information and Membership services
- We use the product management as a process to continually iterate, maintain and add value into APNIC services

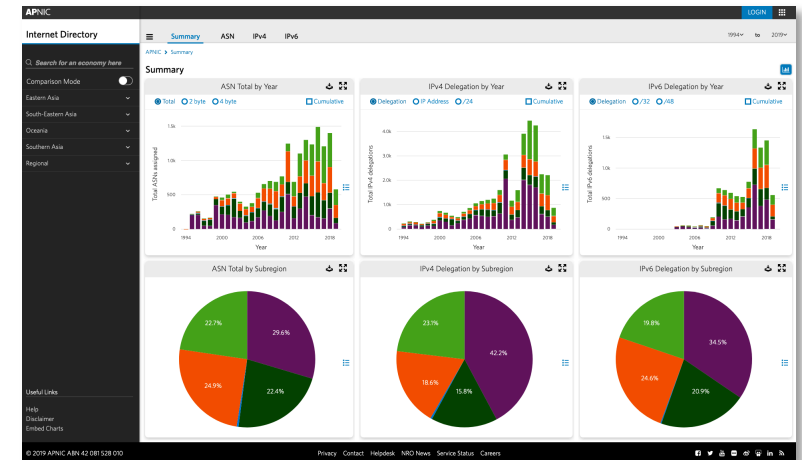


Overview

- Internet directory
- Dashboard for autonomous system health (DASH)
- Network operators ToolbOX (NetOX)

What is the Internet directory?

- APNIC Internet resource allocations and assignments
 - Daily summary reports
 - <ftp://ftp.apnic.net/public/stats/apnic/>
- Visual representation updated daily
- Provide researchers and anyone interested on the use and distribution of Internet resources

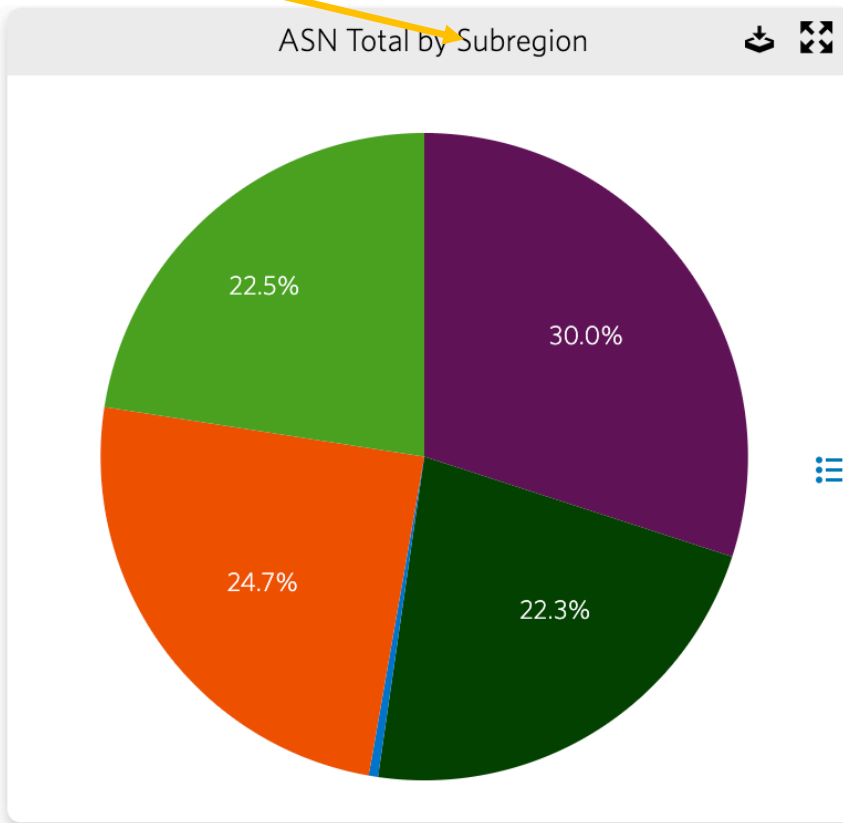
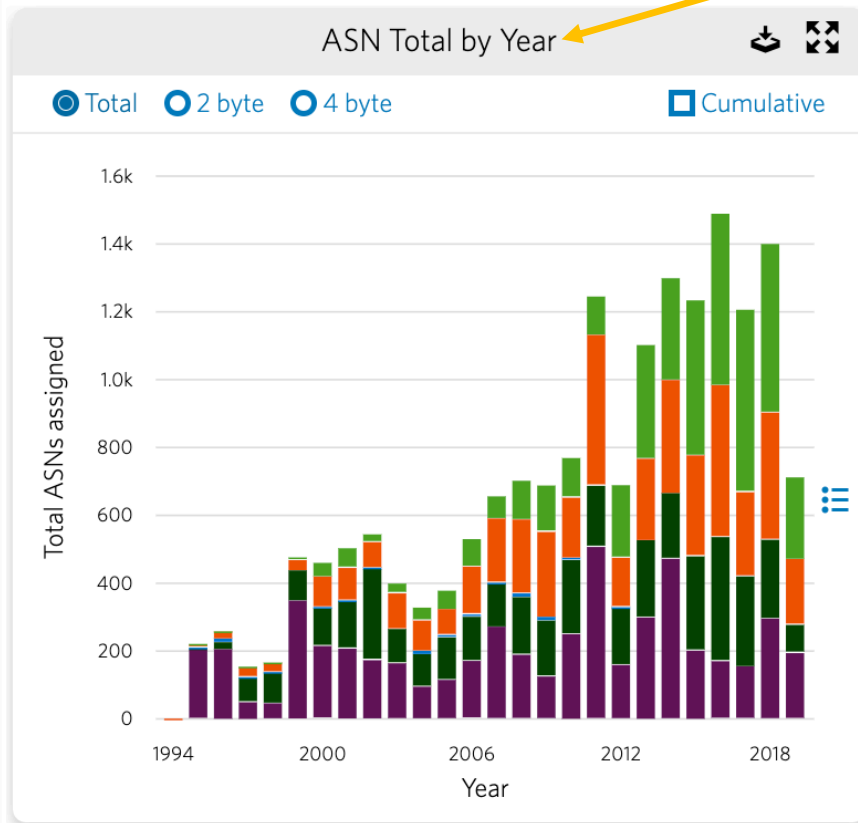


Highlights

- Quick access to reports for resource distribution by types, sub regions, economies and more...
- Download data in various formats (CSV, JSON, image and embed tag)
- Search and compare data
- VizAS integration for ASN
- IPv6 deployment charts (coming soon!)
- More info available with a login credential

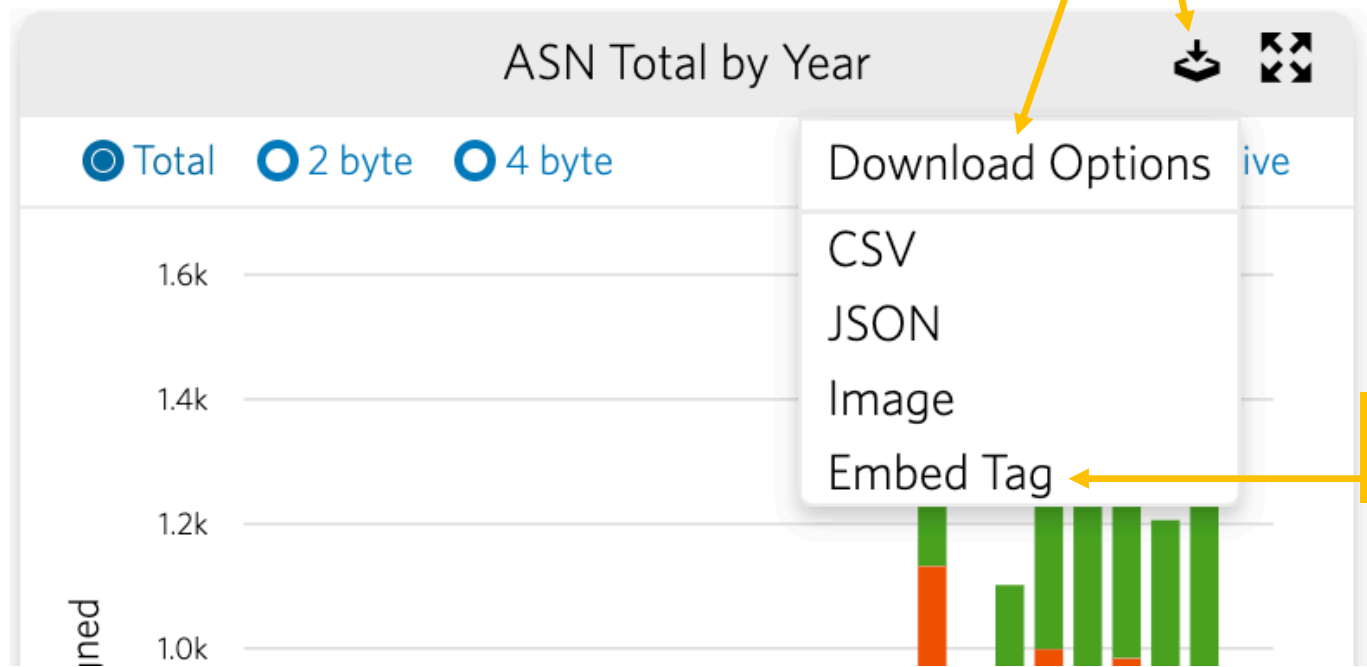
Resources delegations by types, sub regions and economies

Summary



Downloadable data in various formats

ASN



Search and compare

Search: NZ

Comparison Mode:

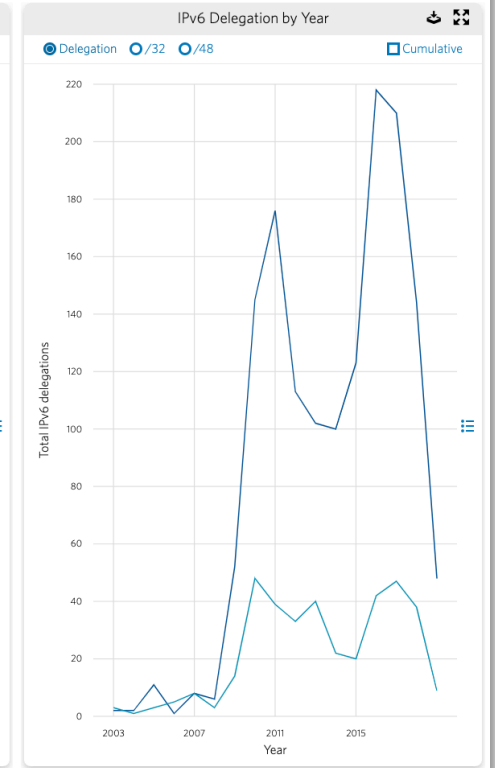
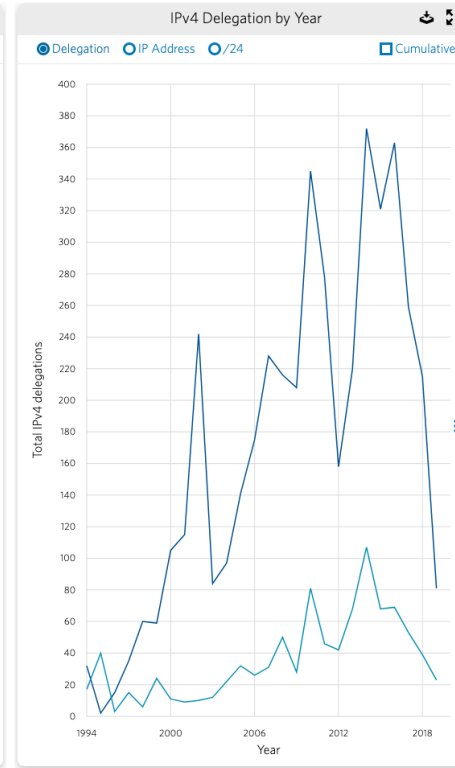
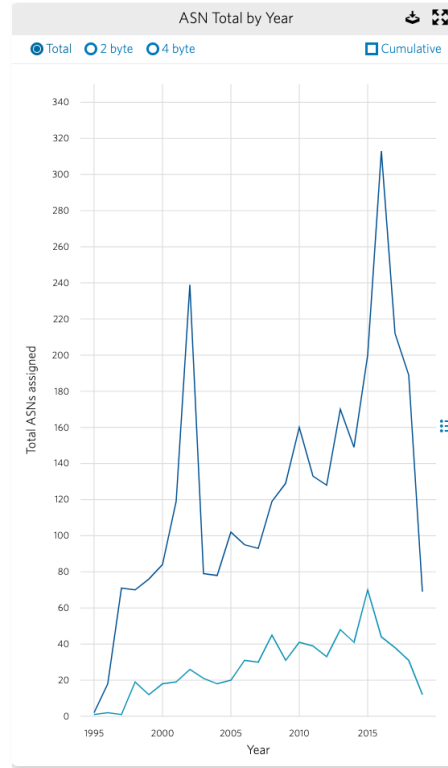
Australia X New Zealand X

Oceania

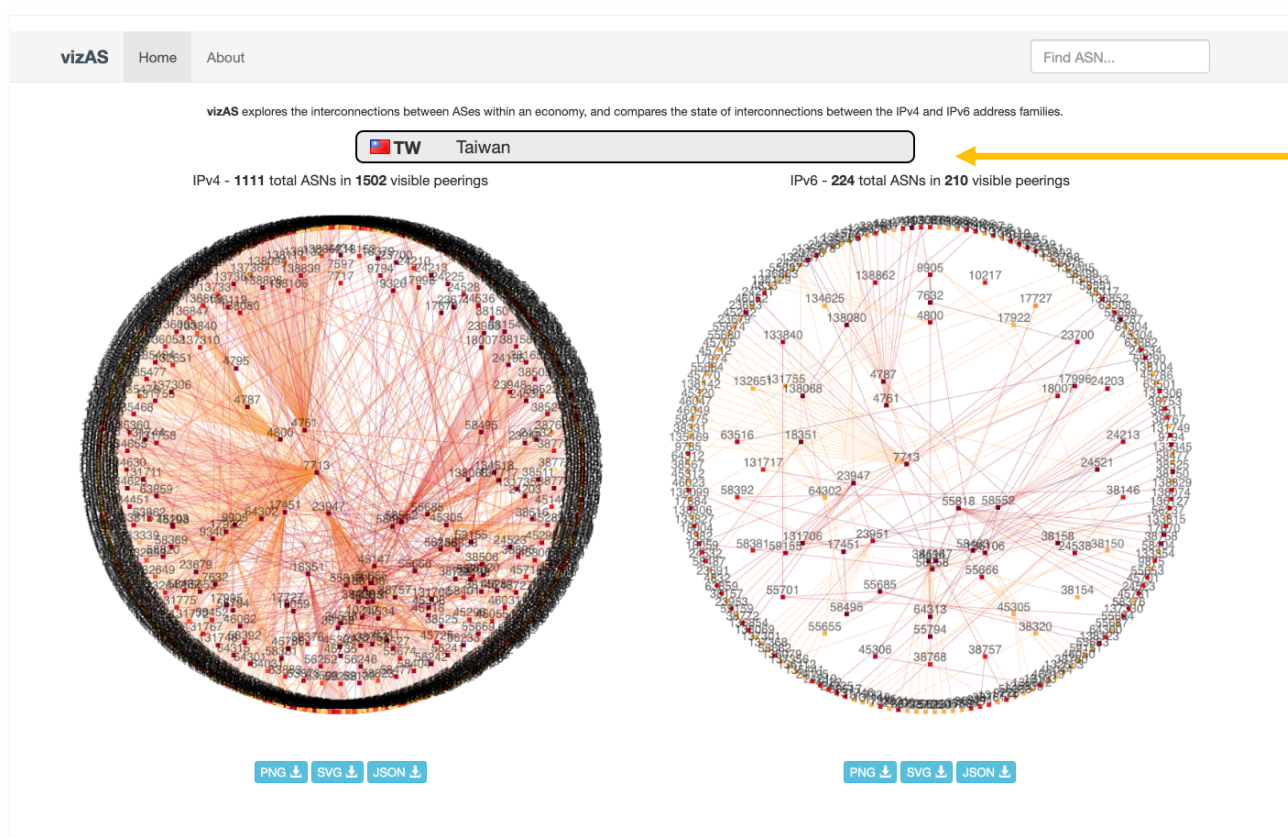
New Zealand

Sub region comparison coming soon!

Comparison for Australia, New Zealand



VizAS integration for ASN



Dashboard for autonomous system health



APNIC Dashboard for Autonomous System Health

Instantly review devices that have been seen sending malicious traffic out of your network, get insights and help on how to solve these issues!



Reports

Generate reports to articulate the situation of your network!



Comparison

Compare the state of your organization against your economy, region or similar size organizations!

What is DASH?

- Monitor prefixes originating malicious traffic and potential infected devices in your network
- Comparing 'hits' coming from your network against your economy or sub region
- Mitigate the impact to your infected network
- Currently only showing ssh attacks
- Initially APNIC members only. Future collaboration with NIRs to expand features for the NIR members

Monthly view reports

Overview

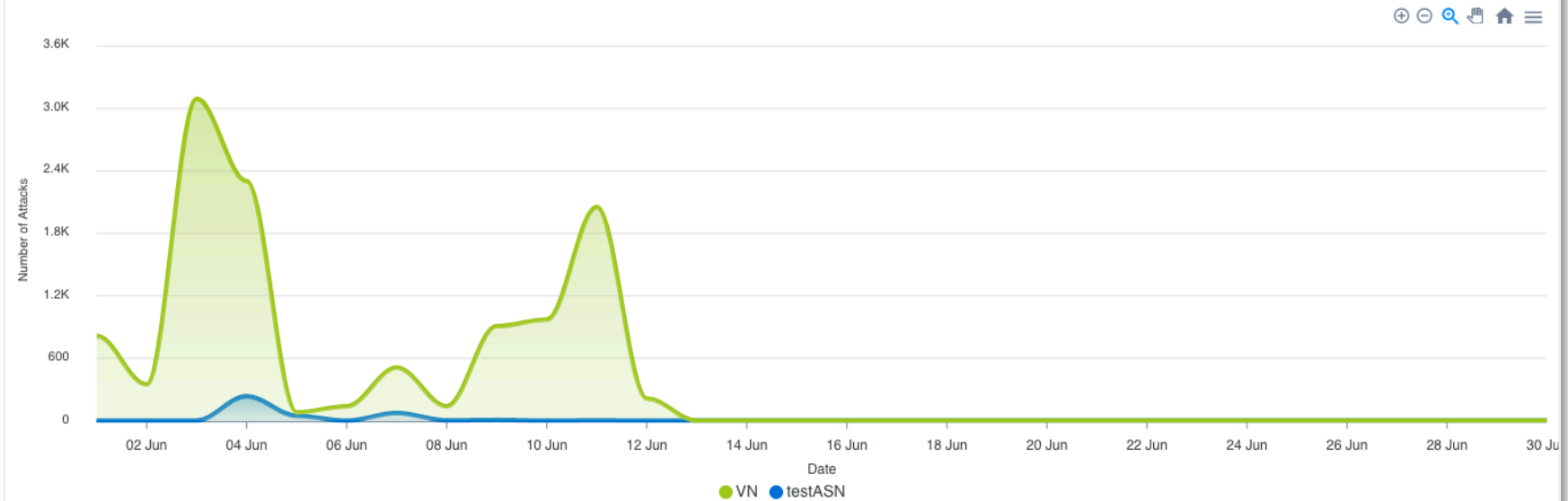
This Month

Last Month

Comparison (This Month)

Daily number of attacks seen from your network against the average of your economy

Economy Region



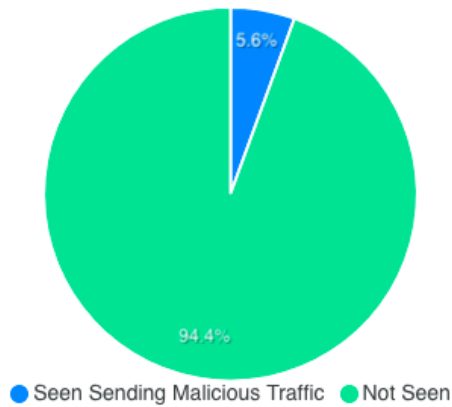
ACCUMULATED NUMBER OF ATTACKS SEEN FROM YOUR NETWORK (THIS MONTH)

TESTASN	↓ 15.9%	VN	↓ 69.9%	SOUTH-EASTERN ASIA	↓ 68.3%
376		11.6K		13.5K	
May 447		May 38.5K		May 42.7K	

Your views of "attacks"

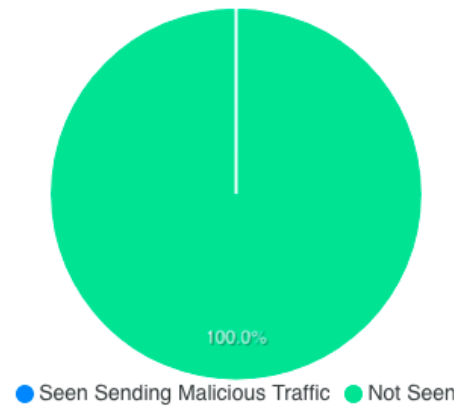
Overview of your organization

IPv4 Prefixes (This Month)



The percentage is calculated using as a total the aggregated IP space routed by your organization

IPv6 Prefixes (This Month)



The percentage is calculated using as a total the aggregated IP space routed by your organization

Top 10 offending prefixes (This Month)

Prefix	Attack	Count
192.0.2.0/20	SSH	288
10.210.112.0/21	SSH	3
10.118.170.0/24	SSH	2
10.118.37.0/24	SSH	2
10.118.72.0/24	SSH	2
10.74.120.0/22	SSH	2
192.0.2.0/24	SSH	2
10.118.112.0/20	SSH	1

More about DASH

- Data sources
 - APNIC community honeynet project
 - https://www.first.org/resources/papers/noumea2018/Adli_Wahid_APNIC_Community_Honeynet_Project.pdf
- Full version will include other types of attack
- Current working with a group of members
- Anyone interested please approach me after the talk
- Stay tuned for the released date –APNIC blog post

APNIC NetOX

APNIC NetOX

Home

Search Internet Number Resources

This is APNIC's Network Operators ToolBOX, powered by RIPE NCC's RIPEstat. It is currently just a prototype. If you have any questions or comments, please reach out to us at feedback@apnic.net

Search...

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At a Glance Routing DNS Anti Abuse Database Geographic Activity

AS Overview (AS4608)

Routing information (RIS)

- ✓ Originates prefixes visible
- ✓ Is seen in other routes

Name and holder of this ASN:
APNIC-SERVICES Asia Pacific Network Information Centre

RIR	Status	Registration	Country
APNIC	ALLOCATED	1995-05-30	AU

Show IANA Registry Information

Showing results for AS4608 as of 2019-06-13 00:00:00 UTC

Whois Matches (AS4608)

▼ Whois results (1) [Show more fields](#)

aut-num	4608
as-name	APNIC-SERVICES
descr	Asia Pacific Network Information Centre
descr	Regional Internet Registry for the Asia-Pacific Region
descr	6 Cordelia Street
descr	PO Box 3646
descr	South Brisbane, QLD 4101
descr	Australia
country	AU
org	ORG-APNII-AP
mnt-by	APNIC-LMA

► Routing registries results (0)

Showing results for AS4608 as of 2019-06-13 04:51:00 UTC

Routing Status (AS4608)

✓ At 2019-06-13 00:00:00 UTC, AS4608 was visible to 100% of 236 IPv4 and 100% of 225 IPv6 RIS full peers.

⊙ First ever seen as origin announcing 202.12.29.0/24, on 2000-08-18 08:00:00 UTC.

Originated IPv4 prefixes: 8
Originated IPv6 prefixes: 10
Observed BGP neighbours: 275
Address space announced (IPv4): 6144 IPs
Address space announced (IPv6): equiv. to 90117 /48s

⚙️ Advanced settings

Showing results for AS4608 as of 2019-06-13 00:00:00 UTC

ⓘ Results exclude routes with very low visibility (less than 10 RIS full-feed peers seeing).

Network Operators ToolbOX (NetOX)

- Very early stage of development
- In collaboration with RIPE NCC
- Currently only content from RIPEstat
- Improved and faster access

Questions?

- Are you interested in testing and giving feedback during the development phase?