Introducing APNIC

APTLD 74
Tashkent, Uzbekistan
What’s APNIC?

The Regional Internet address Registry (RIR) for the AP region

- Manages Internet number resources
  - Including IPv4 and IPv6 addresses
  - Registration and certification
- Supports regional Internet development
- A neutral, independent, not-for-profit, open membership-based organisation, since 1993
Regional Internet Registries

RIPE NCC

APNIC

AFRINIC

UZ

ARIN

lacnic
“A global, open, stable and secure Internet that serves the entire Asia Pacific community”
Activities

- Serving APNIC Members
- Supporting Regional Internet Development
- Cooperating with the Global Internet Community
APNIC Membership

Members | NIR members | Projection

15,500

Year: 1998-2018
• Relaunched August 2018
  • APNIC Curriculum
  • Virtual labs
  • New partner courses
• Free public access
  ✴ Enrolled: 758
  ✴ Certified: 647
• Coming soon
  ✴ APNIC PDP
  ✴ Introduction to IPv6
  ✴ Internet Routing Protocols
  ✴ DNS Concepts

apnic.academy
Information Services

Global IPv6 capability

IPv4 Transfers

Network threats and security
- Network infrastructure, topology, usage: 74%
- Use of new technologies (eg. SDN, NFV): 59%
- Use of specific technologies (eg. IPv6, DNSSEC, RPKI): 54%
- ASN/IPv4/IPv6 distribution and usage: 53%
- Industry and market trends and information: 52%
- Internet business and operational benchmarks: 35%
- Pricing or charging information: 29%
- Use of specific vendors for various products: 24%
- Use of specific technologies (eg. IPv6, DNSSEC, RPKI): 13%
‘To have a global, open, stable and secure Internet that is affordable and accessible to the entire Asia Pacific community’

apnic.foundation

- **Mission**: To build the APNIC Development Program
- Effectively, the ‘fundraising arm’ of APNIC
- 10-year commitment from APNIC
- Three Board members appointed: Edward Tian (CN); Sharad Sanghi (IN); Sylvia Sumarlin (ID)
- **Over USD 1M** in funding committed in first 18 months of operation
Information Society Innovation Fund

Grants and Awards

• 2018 Call for Grant Proposals and Award Nominations completed
• 236 nominations, 122 in new Gender Empowerment and Innovation category
• USD 210k for 8 grants and 2 awards:
  ✶ Network Operations Research (APNIC)
  ✶ Cybersecurity (APNIC)
  ✶ Community Networks (ISOC)
  ✶ Gender Empowerment/Innovation (IDRC)

WSIS Champion

• ISIF Asia recognized as a WSIS Champion in the International and Regional Cooperation category
• Sylvia Cadena participated in the Champions ceremony in Mar 2018

isif.asia

Ten years: 2008 to 2018
Pacific CERT Development

- Supporting new CERTs
  - **CERT Tonga**, 2016
  - **CERT-PNG**, Jan 2018
  - **CERT-VU**, Jun 2018
  - … and more coming

- Regional workshops in TO and NC (APNIC 46)

- Coordination with APCERT, FIRST, ITU etc.

- Assisted by AUD 200K funding via APNIC Foundation
**APNIC Survey 2018**

- Every 2 years since 1999
  - 10th Survey completed Sep 2018
  - Regional focus groups, interviews and online survey
  - Major input into APNIC Board planning processes
- Independent, anonymous
  - Currently conducted by Survey Matters, Australia
- Two major returns
  - Performance survey
  - Future priorities and expectations
- Thanks to all who responded!

[apnic.net/survey](http://apnic.net/survey)
OVERALL SATISFACTION

Quality of Services

- 2018: 9% Very poor, 11% Poor, 45% Below Average, 35% Neutral
- 2016: 7% Very poor, 15% Poor, 41% Below Average, 36% Neutral

Value of Membership

- 2018: 10% Very poor, 10% Poor, 39% Below Average, 39% Neutral
- 2016: 12% Very poor, 16% Poor, 35% Below Average, 35% Neutral

Value of Services

- 2018: 8% Very poor, 10% Poor, 43% Below Average, 38% Neutral
- 2016: 8% Very poor, 14% Poor, 40% Below Average, 37% Neutral

Overall experience

- 2018: 13% Very poor, 11% Poor, 43% Below Average, 31% Neutral
- 2016: 7% Very poor, 15% Poor, 41% Below Average, 36% Neutral
Q9. Thinking about your Internet-related services, products or activities, what are the MAIN operational challenges facing your organisation?

Consistent with focus group feedback, network security is the number one challenge facing the community in 2018.
Q10. Thinking about network security, what are the MAIN challenges facing your organisation?

- Phishing, spam, malware, ransomware: 64%
- DDoS attacks: 61%
- Intrusion and other breaches: 47%
- Staff lack awareness of security issues: 45%
- Blacklisting of IP addresses: 38%
- Routing security: 32%
- Lack of application security: 29%
- Inadequate security policies: 28%
- No cyber security focus from...: 23%
- Lack of security for IoT applications: 22%

Q11. How might APNIC best assist you or others with network security challenges?

- Specific security training courses: 64%
- Collaborate with technical security organisations: 59%
- Share security insights on the APNIC Blog and...: 53%
- Integrate more security content in APNIC...: 41%
- Engage with Governments in the region about the...: 39%
- Encourage CERT development and information...: 35%
- Establish an APNIC-CERT for information sharing: 30%
Q13. Thinking about the scarcity of IPv4 addresses, what are the MAIN challenges facing your organisation?

- Deploying IPv6: 49%
- Cost of buying IPv4 addresses: 38%
- Cost & complexity of NATs: 34%
- IPv4 transfer policies: 33%
- Working with brokers selling / leasing IPv4: 21%
- It is not an issue: 21%
- “Health” of IPv4 addresses being transferred: 19%

Q14. Thinking about the scarcity of IPv4 addresses, which, if any, of the following IPv4 activities do you think APNIC should undertake?

- Reclaiming/recovering unused address space: 57%
- Monitoring and reporting usage: 54%
- Provide incentives for the return of address: 52%
- Share information and best practice on: 39%
- Purchase addresses for distribution: 25%
- Take no action: 5%
- Other: 3%
APNIC Survey – Next steps

- APNIC Board (EC) produces public response
  - Notes key points
  - Identifies short and mid-term priorities
  - Directs Secretariat to implement
- APNIC annual planning cycle
  - Activity plan and budget for 2019
- Strategic planning cycle
  - Next 4-year plan is 2020-2023
  - 2020 Survey will provide mid-term input

apnic.net/survey
Stay in Touch!

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