

# Internet Security for Development in the Pacific

Nuku'alofa, Tonga

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**APNIC**

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# ICT for Development



*'We recognize that information and communication technologies (ICTs), while not an end in themselves, have a key role as a basis for economic development, while also promoting and enhancing social cohesion, cultural enrichment and environmental conservation'*

**- Wellington Declaration, 2006**

# Cybersecurity for Development

*Trust is the key to a vibrant smart economy*

Cybersecurity requires:

- Technical solutions
- Risk management
- National cyber strategies
- Incident response
- Information sharing
- **Human capacity**



# APNIC

- APNIC is the Regional Internet Registry (RIR) for the Asia Pacific region
- **Delegates and manages Internet number resources**
  - Including IPv4 and IPv6 addresses
  - One of 5 RIRs in the world today
- Supports Internet development in the region
- Promotes human capacity building
- A neutral, independent, not-for-profit, open membership-based organisation, since 1993

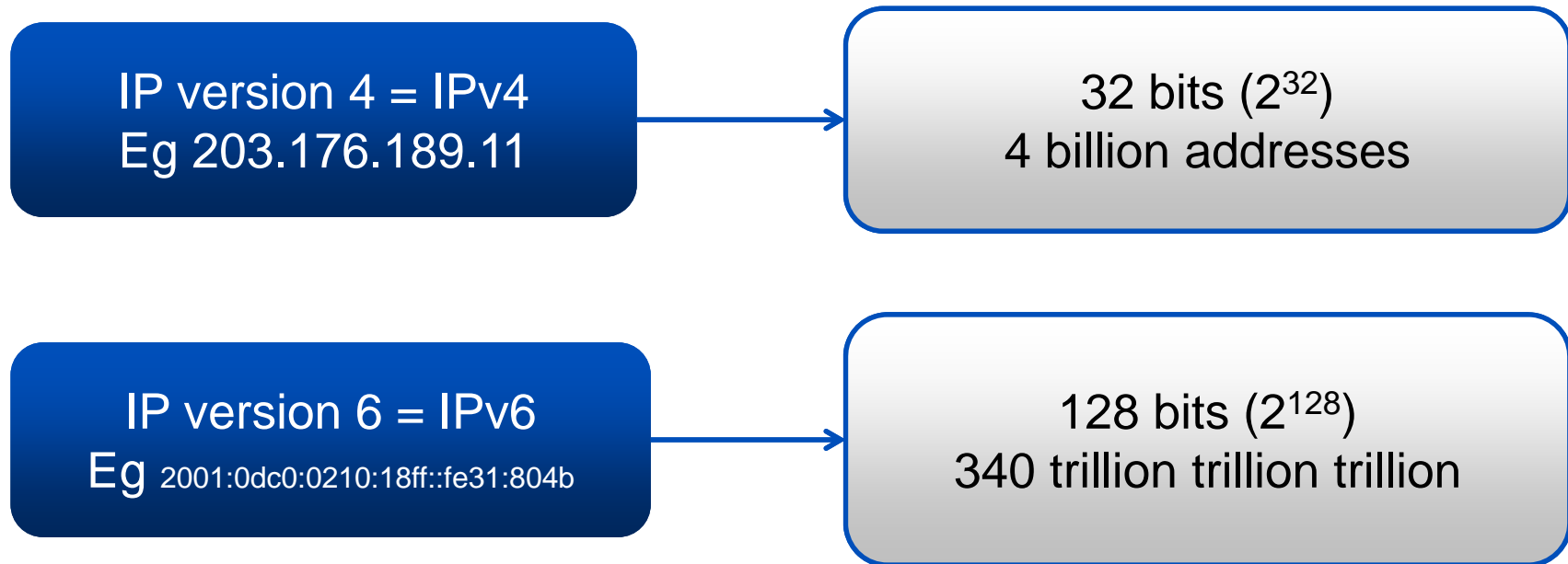


# APNIC's Vision

*A global, open, stable, and secure Internet that serves the entire Asia Pacific community*

# What are IP addresses...

The unique numbers which allow networks  
(and their users, and devices) to connect to the Internet



(cf. email addresses and domain names - eg. itu.int)

# APNIC and Cybersecurity



## Activities

1. Promoting Best Current Practices
2. Training and capacity building
3. Cooperation: Interpol, LEA's, APCERT, APTLD, FIRST, etc

# Best Current Practices in Security

- Target Audience
  - IP Network Operators & Internet Service Providers
  - Regulators and Policy Makers
- Philosophy
  - Operationally relevant
  - Up to date
- Topics
  - Routing security: Resource Public Key Infrastructure (RPKI)
  - DNS and DNSSEC
  - Source Address Validation (SAVE)
  - Whois Database – IRT records
  - Establishing CSIRTs



# Training & Capacity Building

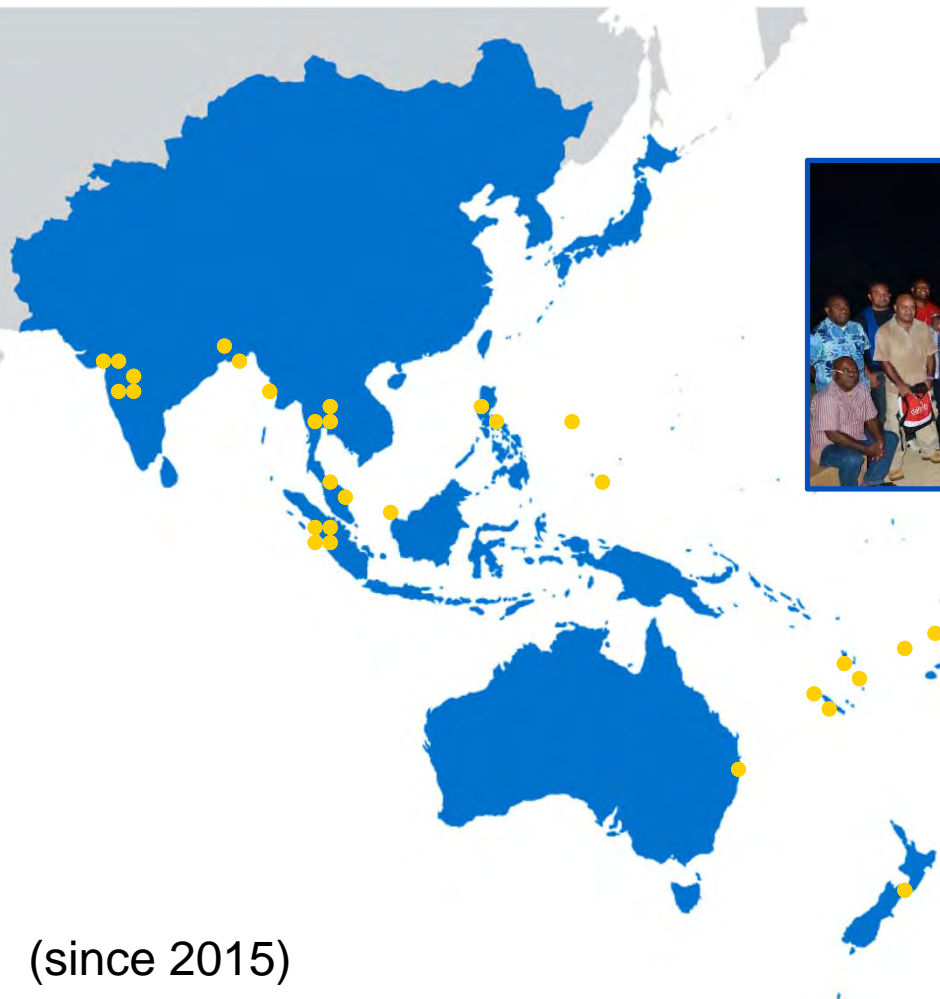
109 face-face  
courses in  
42 locations

3,250  
professionals  
trained  
face-face

847  
professionals  
trained via  
201 eLearning  
sessions

Video archives  
236,708 views  
3,436 users

(since 2015)



# Cooperation: Working together



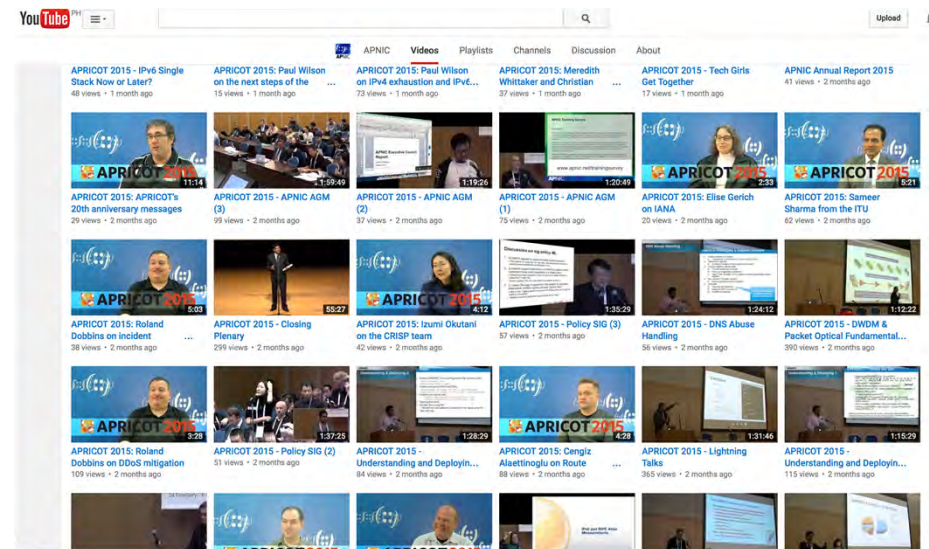
Participation in NOGs, CSIRTS and LEA events to educate and learn

Internet Investigation Training for LEAs: NZ, SG, BN & ID

Promoting new initiatives & security best practices among Members

# How do we work?

- Events
  - APNIC Conferences and Regional meetings
  - Network Operators Groups (NOGs) and Security Conferences
  - Hosting events, attending, providing fellowships
- Training: classrooms, eLearning and technical workshops
  - <https://training.apnic.net>
- Technical Assistance Services
- Blog & Social Media
  - <https://blog.apnic.net>
- Campaigns
  - Ready to ROA!



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# APNIC and PRISAP 2015–2020

- “Capacity building/supplementation and skills transfer”
  - Training, fellowships and technical assistance
- “Facilitation of sharing of knowledge and experience among PICTs”
  - Work with regional organisations: PITA, SPC, PACNOG, PICISOC...
- “Systems for data collection, analysis, reporting and information dissemination”
  - APNIC Blog, Labs and statistical data publication
- “ICT infrastructure and Universal Access”
  - Critical infrastructure: IPv6, IXPs, DNS etc
- “Leadership, governance, coordination and partnership”
  - Commitment to Internet community/industry in the Pacific
  - Support for the Multi-stakeholder model of Internet Governance

# Conclusions

- Cybersecurity must be managed
- Plans are needed
  - Prevention
  - Recovery
- Resources are needed
  - Must be developed
  - Must be allocated
- Cooperation is key
  - Public-Public
  - Public-Private
  - “Multistakeholder”

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# You're Invited!

# APNIC 40



- APNIC 40: Jakarta, 3-10 September 2015
  - Technical security track
  - Special Interest Group on “Cooperation”
- And...
  - APNIC 41: Auckland, Feb 2016
  - APNIC 42: Dhaka, Sep 2016
- See <http://conference.apnic.net>

# APNIC



# Thank you

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