# A global, stable and secure Internet

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### **APNIC**

- Regional Internet Registry <u>www.apnic.net</u>
- Distribute and manage internet number resources IP addresses (ipv4 and ipv6) and Autonomous System Number (ASN) for the Asia Pacific Region (56 Economies)
  - Maintaining Whois database, reverse DNS zone delegation, RPKI, APNIC Academy, Internet Directory
- Forum for Internet Policy Development
- Technical Capacity Building & Research
- Active participant in the multi-stakeholder model of Internet cooperation and governance
- APNIC's Vision: A global, open, stable, and secure Internet



### **APNIC & ITU Collaboration**

- IPv6 deployment, infrastructure, security
- Support for National CERT/CSIRTs



#### ITU / APNIC joint development initiatives

- 2013 IPv6 Security Workshop Bangkok, Thailand
- 2014 ITU Workshop Bangkok, Thailand
- 2014 IPv6 Workshop Vientiane, Laos
- 2015 IPv6 Workshop Bangkok, Thailand
- 2015 Country Direct Assistance Ulaanbaatar, Mongolia
- 2016 IPv6 Security Workshop Bangkok, Thailand
- · 2016 Country Direct Assistance IPv6 Phnom Penh, Cambodia
- 2017 Infrastructure and IPv6 Security Workshop Bangkok, Thailand
- 2017 Country Direct Assistance IPv6 Thimpu, Bhutan
- 2017 Infrastructure and IPv6 Security Workshop (w/ PacNOG) Nuku'alofa, Tonga

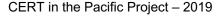
https://blog.apnic.net/2017/12/11/committing-engagement-pays-off-region/



# **Key Challenges & Opportunities**

- Challenges
  - People Awareness and Skills
  - Infrastructure & Cyber Hygiene
  - Addressing the "Security Ecosystem"
  - Costs of doing security & Sustainability
- Opportunities & Approach
  - Diversify activities & Being Flexible
  - Leverage existing initiatives & collaboration
  - Multi-stakeholder engagement
  - Strategic, management and technical issues







# **Areas of Cooperation**

### 1. Community Engagement

- CSIRT/CERTs (National and Enterprises)
- Law Enforcement Agencies
- Network operators
- Government

#### 2. Threat Sharing

- APNIC Community Honeynet Project
- Threat Information Sharing Initiative
- Action!

#### 3. Community Trainers

- Regional resources & expertise



ASEAN CERT/CSIRT Workshop - 2019



Community Honeynet Project



# **Takeaways**

- 1. Multiple initiatives & Multistakeholders, in parallel
- 2. Resilience adapt and response, now (i.e. covid-19)
- 3. "Maturity" of entity ecosystem
  - Maturity as a "state"



Web Application Security Workshop, Bhutan - 2019



### References

- 1. APNIC <a href="https://www.apnic.net">https://www.apnic.net</a>
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- 3. APNIC Foundation https://apnic.foundation
- 4. APNIC Academy <a href="https://academy.apnic.net">https://academy.apnic.net</a>
- 5. Internet Directory: <a href="https://directory.apnic.net/">https://directory.apnic.net/</a>
- 6. APNIC Community Honeynet Project : <a href="https://blog.apnic.net/2020/07/09/apnic-community-honeynet-project-behind-the-scenes/">https://blog.apnic.net/2020/07/09/apnic-community-honeynet-project-behind-the-scenes/</a>



## **Thank You**

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