

# Training Update

Champika Wijayatunga

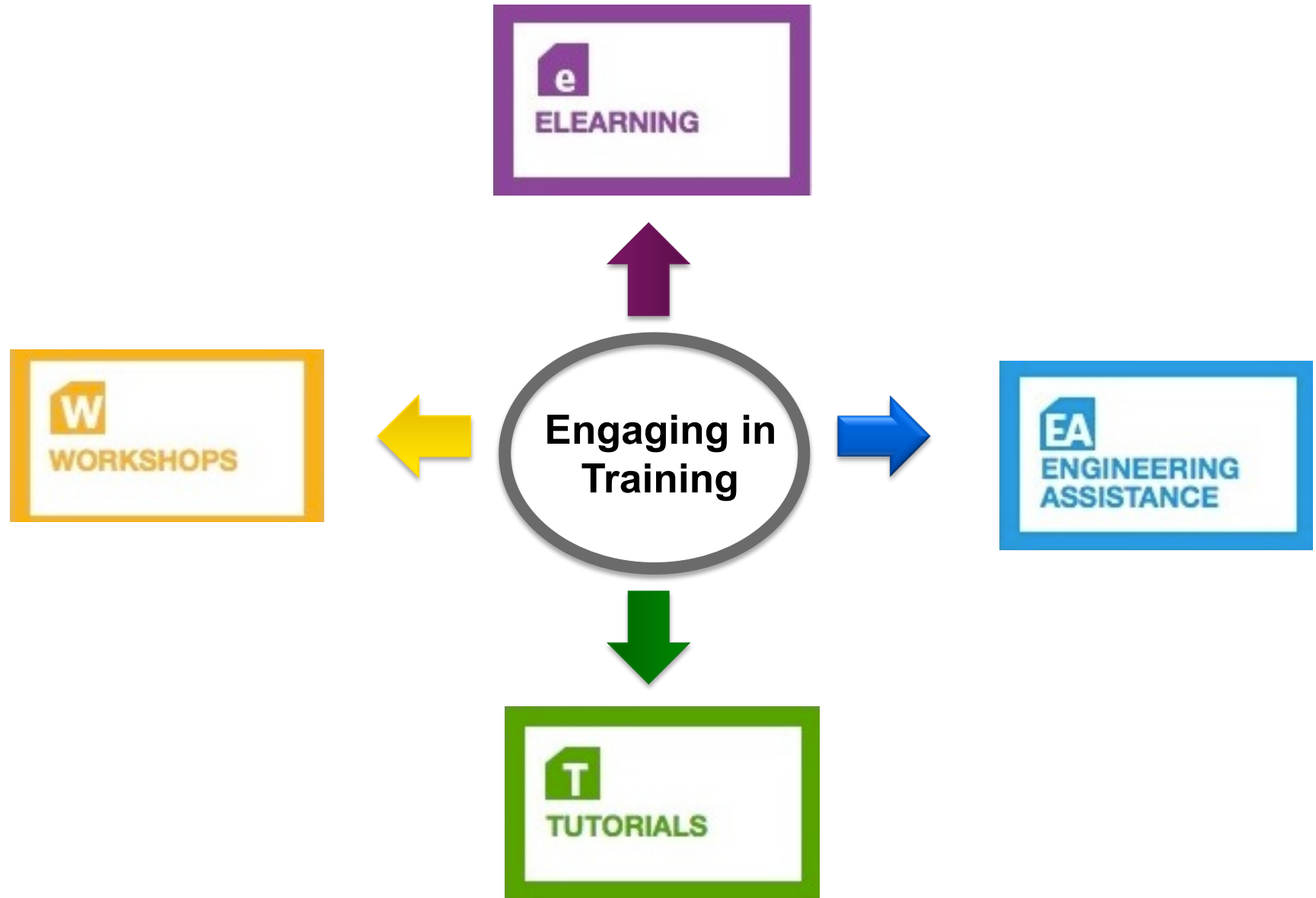
*Training Manager*

*27 August 2013*



# Training Philosophy

- **Accessibility**
  - Participants throughout the region can more easily attend our training courses.
- **Availability**
  - More training courses are available for participants to attend.
- **Continuity**
  - Participants are able to update skills and knowledge as the industry develops and their needs change.





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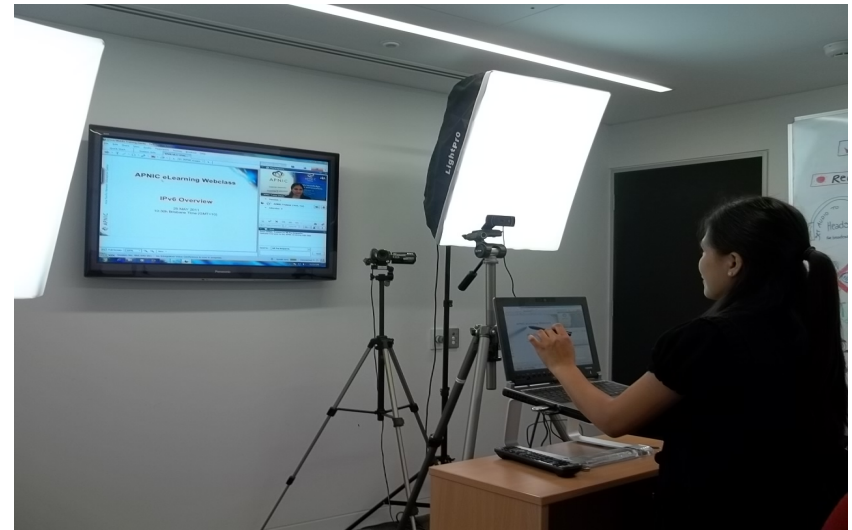
# eLearning

**APNIC**



# Interactive Web Classes

- Training and learning experiences to trainees regardless of
  - Geographical distance
  - Different time zones
- Sub-regional focus
  - Pacific and Oceania
  - South East and Eastern Asia
  - South Asia



# eLearning Course Offerings

- Modular Structure
  - Four '1 hour' sessions on Wednesdays
- Session Times (AEST)
  - 10:30am – 11:30am
  - 12:30pm – 1:30pm
  - 2:30pm – 3:30pm
  - 4:30pm – 5:30pm
- Currently offering 23 eLearning courses
- Offered as Free of Charge



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# Face to Face Training

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# Workshops and Tutorials

- Offers courses on the following areas:
  - Internet Resource Management (IRM)
  - IPv6
  - Routing
  - DNS
  - Network Security
- 10 Workshop offerings
- 7 Tutorial offerings





# Customized On-Demand Training

- To cover the training needs of a particular organisation
- Regular APNIC training topics
  - Modular structure
  - Customised contents based on the demand
- Cost recovery business model



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# Engineering Assistance

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# Objectives

- As part of APNIC's ongoing commitment to directly supporting regional infrastructure development
- Bridge the gap between training and deployment
- Provide guidance on the next stages of operational technologies that were covered in APNIC Training sessions
- Run on a cost recovery basis



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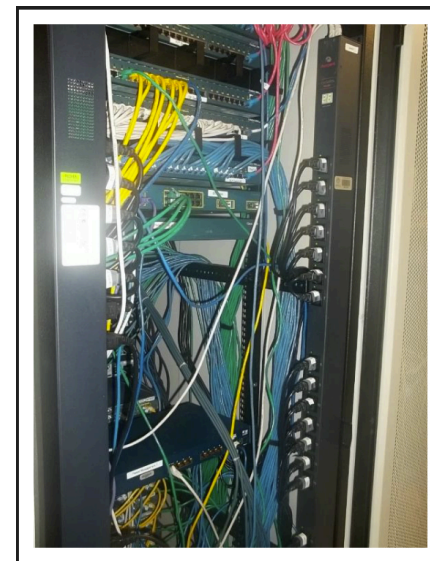
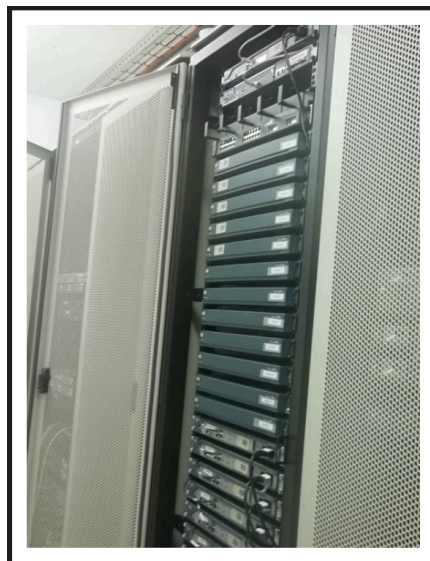
# Training Lab Infrastructure

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# Physical Lab

- Facilitates the training team to conduct advanced technical workshops to the APNIC community
- Adding more value to our training courses
- Allows an available environment for other test scenarios
  - Network operations, Infrastructure and any other new services
- Various lab topologies
  - ISP Topology
    - Transport Core
    - Multiple Regions
    - POPs
    - Customer Access Network
    - Upstream Connections
    - Tunnels
  - IXP Topology
    - Peering



# Virtual Lab

- Flexibility
  - Run multiple workshops at the same time
- Redundancy
  - Effective especially in locations with slow bandwidths
- Virtual routers and servers running in MacMini Servers
- Easy to carry
  - Part of trainers training kit





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# Training Resources and Outreach

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# New Training Website

The screenshot shows a web browser window with the address bar displaying 'training.apnic.net'. The page features a dark navigation bar with links for 'APNIC', 'MyAPNIC', 'Training', and 'Conferences'. Below this is a green and black header with the 'APNIC' logo on the left and the 'TRAINING' logo on the right. A horizontal menu contains links for 'HOME', 'COURSES', 'EVENTS', 'ABOUT US', 'SPONSOR', 'BLOG', and 'LIBRARY'. A search bar is positioned below the menu, containing the text 'ENTER A COURSE; e.g. IPv6 Workshop, DNSSEC, Network Security...' and a 'Go' button. To the right of the search bar is an orange 'ENQUIRE NOW >' button. The main content area is divided into two columns. The left column features a large banner with a group photo of people and the text: 'Join us online', 'Wednesday is eLearning day!', 'Check out our free, one-hour classes.', and 'View the calendar'. Below the banner is a section titled 'Explore APNIC Training Courses' with a list of course categories: 'DNS >', 'IPv6 >', 'IRM >', and 'Network Security >'. The right column contains a section titled 'Training news' with two news items. The first item is titled 'Palembang\_NetSec' and describes a workshop in Thailand. The second item describes a workshop in Yogyakarta, Indonesia. At the bottom of the news section is the text 'Welcome to 2013! The APNIC Training Team'.

training.apnic.net

APNIC MyAPNIC Training Conferences

APNIC TRAINING

HOME COURSES EVENTS ABOUT US SPONSOR BLOG LIBRARY

ENTER A COURSE; e.g. IPv6 Workshop, DNSSEC, Network Security... Go

ENQUIRE NOW >

Join us online  
Wednesday is eLearning day!  
Check out our free, one-hour classes.  
View the calendar

Thanks to our sponsors and partners

MobiNet  
leading internet technology

Explore APNIC Training Courses

DNS >  
IPv6 >  
IRM >  
Network Security >

Training news

Palembang\_NetSec  
IXP Workshop in Thailand In May, Philip Smith participated in a two day IXP Workshop in Thailand along with Randy ... READ MORE >

APNIC Training Manager Champika Wijayatunga and APNIC Internet Resource Analyst Wita Laksono were in Yogyakarta Indonesia to conduct this workshop ... READ MORE >

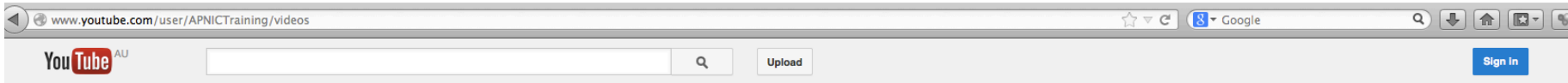
Welcome to 2013! The APNIC Training Team



# New Training Website

- training.apnic.net
- Features
  - Ease of navigation (fewer clicks)
  - Content organisation
  - Integrated with the new Events System
  - Running on v4 and v6
- Continuous improvement

# Training Video Library



YouTube AU



Upload

Sign In

- Popular on YouTube
- Music
- Sports
- Gaming
- Movies

CHANNELS FOR YOU

- euronews knowledge
- KUSHAN & SRIMAL SH...
- ArsikVahini
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- ITN

Browse channels

Sign in now to see your channels and recommendations!

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## APNIC Training

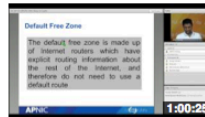
Subscribe 457

Videos Discussion About

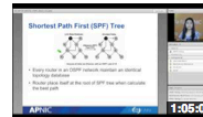
Uploads Date added (newest - oldest)



**BGP Attributes - 10 July 2013**  
98 views 1 month ago



**BGP Basics - 10 July 2013**  
111 views 1 month ago



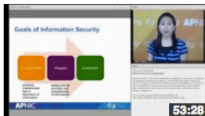
**OSPF Basics 10 July 2013**  
104 views 1 month ago



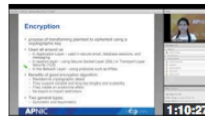
**Network Security Fundamentals 10 July 2013**  
87 views 1 month ago



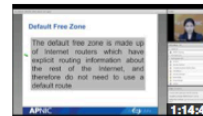
**eDNS03 DNS Security 19 June 2013**  
56 views 1 month ago



**eSEC01 - Network Security Fundamentals**  
58 views 1 month ago



**eSEC02 Cryptography Basics 17 April 2013**  
45 views 1 month ago



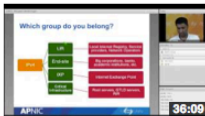
**eROU03 BGP Basics 19 June 2013**  
46 views 1 month ago



**eIRM06 Using MyAPNIC 22 May 2013**  
15 views 1 month ago



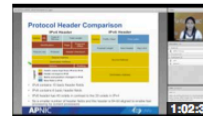
**eIRM03 Best Practices in Managing IR 24 Apr 2013**  
14 views 1 month ago



**Which group do you belong?**  
36:09



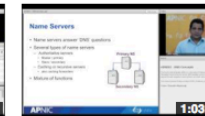
**IPv4 Address Management Hierarchy**  
43:12



**Protocol Header Comparison**  
1:02:32



**Packet Format Alteration for All Tunnel Mode**  
57:27



**Name Servers**  
1:03:58

Popular channels on YouTube

MinuteEarth  
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PBS Idea Channel  
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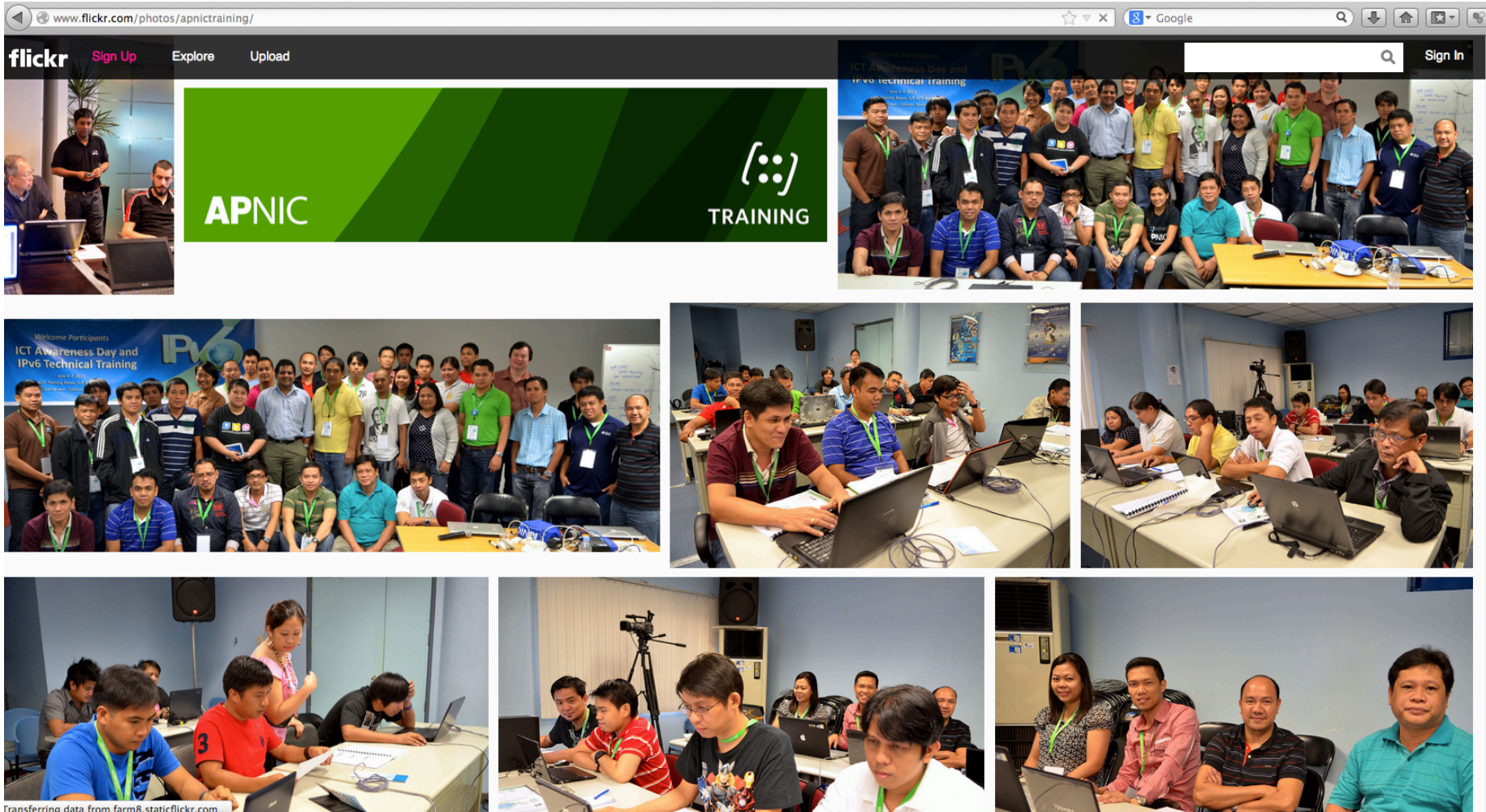
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SciShow  
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Seth Sentry  
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Free Magic Tricks  
Subscribe

# Training Photo Library





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# Training Partnerships

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# Collaborative Training Activities

- Support various forums
  - Network Operator Groups (SANOG, PacNOG, etc.)
  - Regional Forums (APRICOT, PICISOC etc.)
  - National Bodies
  - ISP Associations
  - Academia
  - Industry bodies, etc.
- Training MoUs
  - Share course materials
  - Training resources
  - Hosting and Sponsorships



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# First half of 2013...

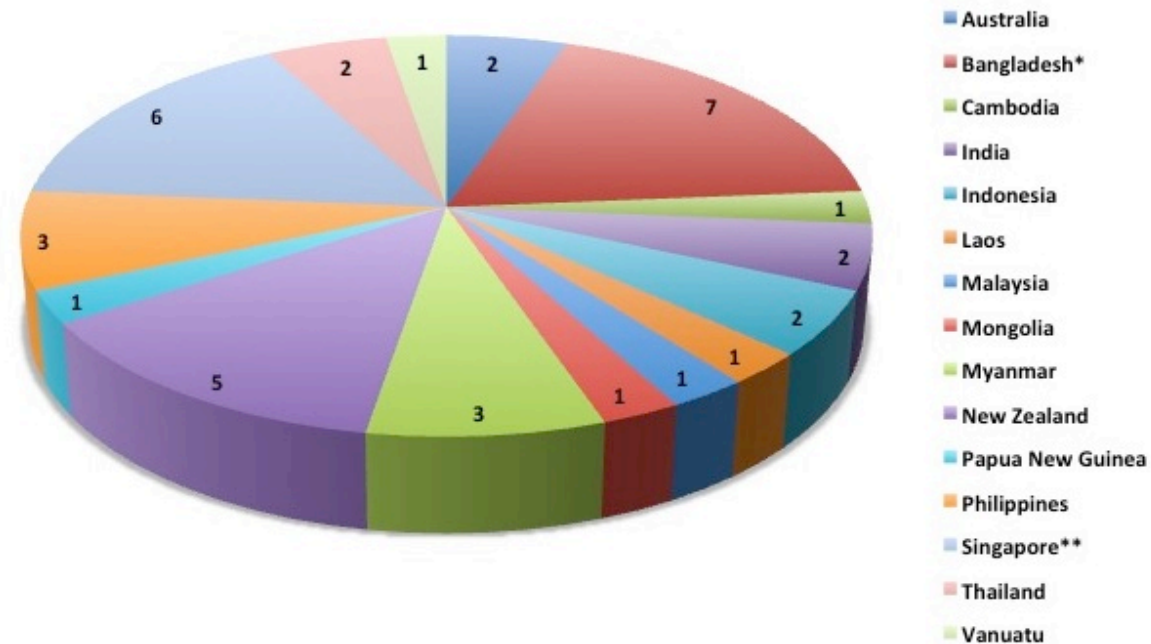
**APNIC**



# Geographical Coverage

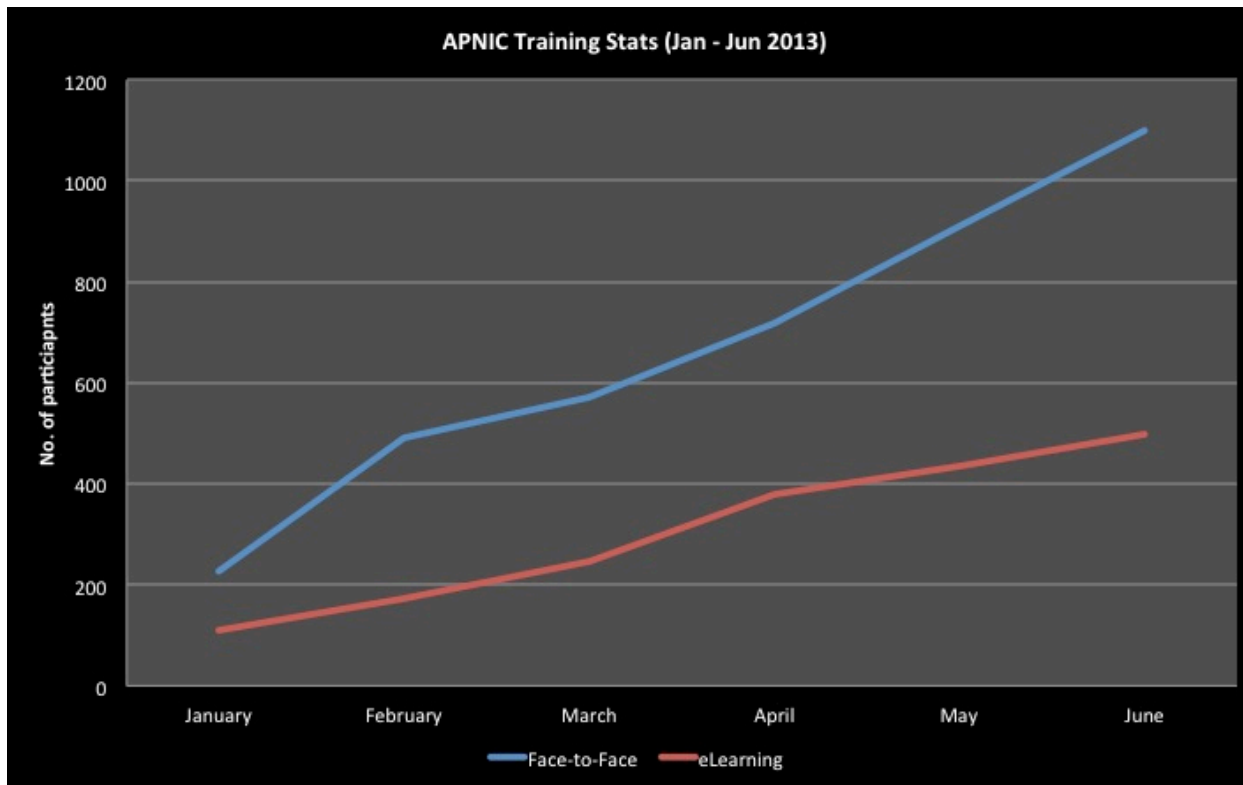
- Face to face training courses were conducted in 15 economies (21 locations) in the Asia Pacific

Training coverage based on economies (Jan - Jun 2013)



# Training Participation

- Over 1000 participants joined Face to face training courses and ~ 500 participants joined eLearning courses.





# Acknowledgements



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CONFERENCE



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**Thank you!**

*training.apnic.net*

