



# **PacNOG Update**

**Pacific Network Operators Group**

APRICOT 2013  
Singapore  
27 June 2013

# The Pacific Ocean is a big place...



...The Pacific Network Operators Group is trying to make it a little bit smaller by building the human & technical network.

# Origins of PacNOG

- **2004:** Pre-APNIC 18 Workshop, August 2004, Nadi, Fiji
- **2005:** First PacNOG Meeting in June
  - Nadi, Fiji
  - 1 workshop over 1 week
  - **Topics:** FreeBSD, Mail and Web, Security, Routing (BGP and Multihoming)
  - Hosted by The Pacific Islands Telecommunications Association (PITA)
  - 30 participants from around the Pacific

# PacNOG 1 – Nadi, Fiji, 2005



# Since then...

## ***PacNOG 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12...***

- Apia, Samoa*
- Rarotonga, Cook Islands*
- Port Vila, Vanuatu*
- Papeete, French Polynesia*
- Nadi, Fiji*
- Pago Pago, American Samoa*
- Kolonia, Pohnpei, Federated States of Micronesia*
- Suva, Fiji*
- Nouméa, New Caledonia*
- Denarau Island, Nadi, Fiji*
- Port Moresby, Papua New Guinea*







# Workshops topics have included:

- IPv4/IPv6 routing workshops including OSPF-BGP routing, multihoming, etc.
- Internet and network security including DNS Security
- Introduction and advanced network security and forensics
- System administration, Linux/Unix and DNS Infrastructure
- Network management and monitoring
- VoIP and telephony solutions
- ccTLD: introduction and advanced registry operations
- Internet exchange points (IXPs)

And many, many more topics during conference days



# Results

Technical training provided to over 500 network technicians from Industry, Education, Government and Scientific Research Stations representing over 20 Pacific Nations, including:

*American Samoa*

*Australia*

*Cook Islands*

*French Polynesia*

*Fiji*

*Federated States of Micronesia*

*Guam*

*Kiribati*

*Marshall Island*

*Nauru*

*New Caledonia*

*New Zealand*

*Niue*

*Palau*

*Papua New Guinea*

*Samoa*

*Solomon Islands*

*Tonga*

*Tuvalu*

*Vanuatu*

# Key Partners

Providing financial, logistical and personnel support:

<b>APNIC:</b>	Asia Pacific Network Information Center
<b>CISCO:</b>	Cisco Systems
<b>CYMRU:</b>	Team Cymru
<b>ICANN:</b>	Internet Corporation for Assigned Names and Numbers
<b>InternetNZ:</b>	Internet New Zealand or .NZ
<b>ISOC:</b>	Internet Society
<b>ITU:</b>	International Telecommunications Union
<b>NSRC:</b>	Network Startup Resource Center
<b>PCH:</b>	Packet Clearing House
<b>PITA:</b>	Pacific Islands Telecommunications Association
<b>USP:</b>	The University of the South Pacific



# Our Local Hosts

## Without whom these events could not happen:

- Pacific Islands Telecommunication Association
- SamoaTel
- Telecom Cook Islands
- Telecom Vanuatu Ltd.
- Office des Postes et Telecommunications de Polynesie Francaise
- Telecom Fiji, Ltd.
- Blue Sky Communications
- FSM Telecommunications Corporation
- University of the South Pacific
- Japan International Cooperation Agency Regional ICT Centre
- OPT Nouvelle-Caledonie
- Telikom PNG

# PacNOG 12, December 2012

## PacNOG 12

December 10-14, Port Moresby, Papua New Guinea  
Grand Papua Hotel

- **Two concurrent workshops on:**
  - BGP Routing and IXPs
  - Internet and Network Security Workshop
- **One day of Plenary Conference and Tutorials**
  - A Day in the Life of a Bot
  - Measuring the quality of Real-Time Internet Traffic
  - Peering, Transit and IXP Design
- **40+ participants from 12 Pacific economies**

# The Future

**PacNOGs 13, 14, 15 and 16 in the works...**

- **PacNOG 13:** Late June or early July in association with the Tonga Telecommunications Association
- **PacNOG 14:** In Nov/Dec with the University of the South Pacific in Suva, Fiji – WiFi Projects
- **2014:** In talks with several potential hosts for PacNOGs 15 and 16, including potentially two new locations.

# More future

- Multiple new and upcoming fiber optic and satellite (O3b) projects in the Pacific region.
- As connectivity improves proper network infrastructure, planning and knowledge become more important.
- As connectivity improves local economies tend to mature (work opportunities, tourism, research and education).
- PacNOG's human and technical community building helps to facilitate this.

# We hope to see you @ PacNOG



[www.pacnog.org](http://www.pacnog.org) - [pacnog@pacnog.org](mailto:pacnog@pacnog.org)