

Introduction

APRICOT2009 VoIP Workshop
Manila, February 2009

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Housekeeping

- Please don't trip on cables :)
- Careful when entering the center of the room - lots of cables hanging around the routers
- Bathrooms out the main door and to the left
- 9.00am start please!
 - 10.30am - 11.00am morning tea
 - 12.30pm - 2.00pm lunch
 - 3.30pm - 4.00pm afternoon tea

Housekeeping... ctd

- Power
 - A mixture of 110v and 220v in the room
 - Can't guarantee that others won't replugin stuff each day
 - Make sure your power adapters will work on either

Jonny

- Been building VoIP networks for about nine years
- Currently working for Packet Clearing House in San Francisco
 - Non-profit working on critical internet infrastructure - Anycast DNS services, IXPs, INOC-DBA
- I'm more than happy to help you out at any time - just email / ring / IM
- Lots of experience in VoIP, optical networks, access networks, wireless, outside plant. Especially practical and pragmatic networking

Daniel

- Currently working at FX Networks in Wellington, New Zealand
 - Built a 40Gbit/s network up the country
- Systems work, optical networks, supporting voice systems

Agenda

- Day 1
 - Introduction to Telephony
 - Introduction to SIP
 - Asterisk Introduction
- Day 2
 - Basic Asterisk configuration
 - Advanced Asterisk configuration

Agenda... ctd

- Day 3
 - Introduction to Cisco voice gateways
 - Advanced Cisco voice gateways
 - Local VoIP issues
- Day 4
 - Phone provisioning, NAT issues, Codecs
 - VoIP network architecture considerations
 - Quality of Service

Agenda... ctd

- Day 5
 - SIP call analysis and other tools
 - ENUM
 - Other VoIP products (time permitting)
 - trixbox
 - Cisco Callmanager
 - SIP express router
 - FreeSwitch

It is assumed that you have...

- a basic knowledge of Linux/Unix
- a basic knowledge of Cisco IOS
- a rough idea of what VoIP is
- a desire to learn and partake

Some questions

- Who is running production VoIP networks?
 - What sort of hardware / software?
- Who has configured VoIP networks before?
- Who has used Asterisk before?
- Who has used Cisco voice gateways before?
- Who has any Unix/Linux experience

Lab equipment

- Laptops
 - username *voip*, password *discovoice*
- Laptops have built in power management we can't seem to disable through Ubuntu - this means the screen will dim whenever it boots or the screensaver turns on
 - You need to log in, then press Fn+F6 several times to increase the brightness
 - Chocolate fish for anyone who can permanently fix this!

Lab Server

- <http://169.223.129.200/slides/>
- <http://169.223.129.200/lab/>