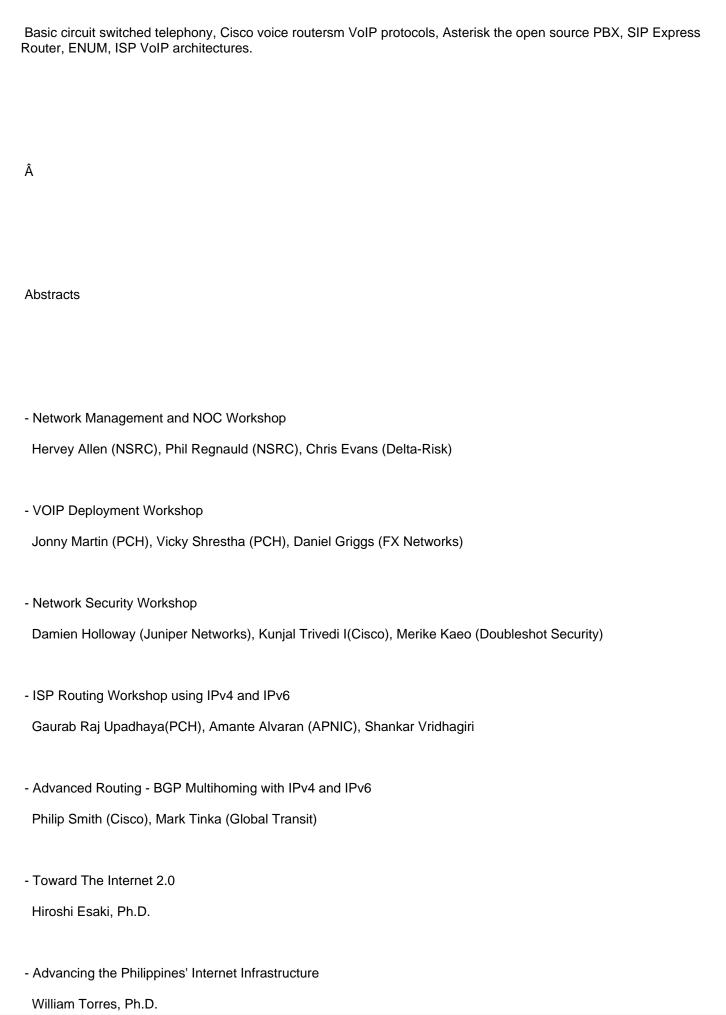
VOIP Deployment Workshop

Instructors:
Jonny Martin, Daniel Griggs
Who should attend:
This is a technical workshop, made up of lectures and hands-on lab work. Open to technical staff who are now or soon will be deploying IPMulticast services on a IP based Internet Service Provider (ISP) network, Enterprise network, Campus network or Internet exchange Point (IXP), for one-to-many and/or many-to-many data/media/NGN distribution services and applications.
Pre-requisites:
User level UNIX and basic system administration skills; basic understanding of VoIP; understanding of TCP/IP and some network design in a service provider environment.
What you will learn:

- An introduction to telephony past and present, and how this has evolved into Voice over IP.
- VoIP fundamentals; techniques, codecs, protocols, plus network and quality considerations.
- Cisco voice router configuration
- How to install and configure Asterisk, one of the most popular and fully feature open source PBXs available.
- Advanced techniques with Asterisk including database integration, interactive voice response (IVR) applications, billing systems, queuing / helpdesk sytems, and integration with external applications.
- Configuration of the open source SIP Express Router, and a look at other open source VoIP servers.
- VoIP platform architectures and management considerations
- Configuration and provisioning requirements for a variety of hardware, including Asterisk/Digium PSTN cards, Cisco voice gateways, and SIP handsets.
- Where and how to use ENUM, voice peering, and voice interconnection techniques.
- DNS and VoIP configuration
- A look at where VoIP technologies are heading, and current trends in VoIP deployments.

Technologies covered:

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- Integrating IP Wireless Sensor Networks
Patrick Grossetete, Archrock
- Lessons Learnt from the Beijing Olympic Games Website Measurement
Rocky K. C. Chang, The Hongkong Polytechnic University
- A technical demo and overview of .tel
Jim Reid (Telnic)
- BGP IN 2008 - what's changed Â
Geoff Huston (APNIC)
- IPv6 Traffic levels on Hurricane Electric's backbone
Martin Levy (Hurricane Electric)
Wartin Lovy (Flumbane Licetho)
- JANET's 40Gbps backbone
Rob Evans (JANET)
- From IPv4 only to v4/v6 Dual Stack
Shin Miyakawa (NTT)
- How to Keep CGNs from Breaking the Internet
Randy Bush (IIJ)
ID: C Deployment of III
- IPv6 Deployment at IIJ
Yoshinobu Matsuzaki (IIJ)
- Session aware NAT
David Miles (Alcatel-Lucent)
David Milloo (Modio) Educity
- IANA and DNSSEC at the root

Richard Lamb (IANA)
- IPv6 at Google: lessons learned, state of the art, and the road to deployment
Lorenzo Colitti(Google)
- Euro-IX update
Serge Radovcic (Euro-IX)
- IPv6 at Monash University
John Mann(Monash University)
- What can IXPs do for IPv4/IPv6 route exchange?
Takabayashi Takejiro (Japan Internet Exchange Co., Ltd.) and Mawatari Masataka (Co-author)
- What can IXPs do about IPv4 exhaustion?
MAWATARI Masataka (Japan Internet Exchange Co., Ltd.) and TAKABAYASHI Takejiro
- DNS-OARC's Open DNSSEC Validating Resolver
Duane Wessels(DNS-OARC)
- AMS-IX Update
Cara Mascini(AMS-IX)
- DNSSEC in 6 minutes
Joao Damas (ISC)
- NIXI - Internet Exchanges in India
Amitabh Singhal,NIXI

- IPv6 - IPv4 Co-Existence: IETF Report

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Jari Arkko, Ericsson Research, IETF
- Rogue DNS servers - a case study Feike Hacquebord, Trend Micro
- Building a very large scale compute system for organizing the worlds information and making it universally accessible Vijay Gill
- Mobile Backhaul Architecture Options Rishi Mehta ,Redback Networks
- Membership Development Tomas Marsalek, NIX.CZ
- Broadband Forum v6 Home Networks David Miles, Alcatel-Lucent
- BGP Routing Scalability Considerations Danny McPherson, Arbor Networks, Inc. Co-author: Shane Amante, Lixia Zhang
- 2008 Infrastructure Security Report Danny McPherson, Arbor Networks, Inc.
- 32-bit ASNs

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Chris Malayter,	Switch&Data.	Co-author:	Grea Hankins.	Force10	Networks

- The Internet Regulatory Environment in Saudi Arabia

Dr. Ibraheem S. Al-Furaih (CITC)

- Tutorial: Introduction to IPv6

Kurtis Lindqvist (NetNod)

- Tutorial: BGP Multihoming Techniques

Philip Smith (Cisco)

- Tutorial: BGP Techniques for Service Providers

Philip Smith (Cisco)

- Tutorial: Troubleshooting BGP

Philip Smith (Cisco)

- Tutorial: Network Core Infrastructure - Best Practices

Yusuf Bhaiji (Cisco)

- Tutorial: Anatomy of a network attack, network forensics, network attack and defense

APNIC Training Team and Team Cymru

- Tutorial: Internet Routing Registry

APNIC Training Team

- Tutorial: MPLS Service, Applications & Deployment Best Practices

Santanu Dasgupta (Cisco Systems) and Kasu Venkat Reddy

- Tutorial: Layer 2 Attacks and Mitigation Techniques

Yusuf Bhaiji (Cisco)

- Tutorial: Managing Voice Quality in Converged IP Networks

Faisal Chaudhry (Cisco Systems)

- Tutorial: Internet Resource Management Essentials (IRME)

APNIC Training Team

- Tutorial: DNSSEC Deployment

Phil Regnauld and Hervey Allen (Network Startup Resource Center)

- Tutorial:MPLS-based Metro Ethernet Services

Paresh Khatri(Alcatel-Lucent)

- Tutorial:IPv6 Deployment

Mark Tinka(Global Transit International)

- Tutorial:IS-IS Deployment (Dual-Stack)

Mark Tinka(Global Transit International)