

Tutorial: Network Core Infrastructure - Best Practices

Yusuf Bhajji

Abstract: This session focuses on the basic requirements necessary to improve backbone security. It reviews features and techniques available to help improve security by hardening the core network. This session reviews security best practices, security recommendations, and router features to mitigate direct infrastructure attack. It covers the deployment of specific features and using them to improve backbone security. This session is designed for network engineers and security professionals in service provider & enterprise environments.

Abstracts

- Network Management and NOC Workshop

Hervey Allen (NSRC), Phil Regnaud (NSRC), Chris Evans (Delta-Risk)

- VOIP Deployment Workshop

Jonny Martin (PCH), Vicky Shrestha (PCH), Daniel Griggs (FX Networks)

- Network Security Workshop

Damien Holloway (Juniper Networks), Kunjal Trivedi (Cisco), Merike Kaeo (Doubleshot Security)

- ISP Routing Workshop using IPv4 and IPv6

Gaurab Raj Upadhaya (PCH), Amante Alvaran (APNIC), Shankar Vridhagiri

- Advanced Routing - BGP Multihoming with IPv4 and IPv6

Philip Smith (Cisco), Mark Tinka (Global Transit)

- Toward The Internet 2.0

Hiroshi Esaki, Ph.D.

- Advancing the Philippines' Internet Infrastructure

William Torres, Ph.D.

- 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

Geoff Huston (APNIC)

- IPv6 Traffic levels on Hurricane Electric's backbone

Martin Levy (Hurricane Electric)

- 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 (IJJ)

- IPv6 Deployment at IJJ

Yoshinobu Matsuzaki (IJJ)

- Session aware NAT

David Miles (Alcatel-Lucent)

- 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 Radovic (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
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
Chris Malayter, Switch&Data, Co-author: Greg 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) Â