IPv6 Routing Workshop

Philip Smith, Ram Krishna Pariyar, Kshitiz Shrestha, Simon Sohel Baroi, Moinur Rahman

SANOG 27

Kathmandu

28th January – 1st February 2016

Workshop Materials

- Master presentation archive:
  - http://bgp4all.com/ftp/isp-workshops

- Archive of this workshop:
  - https://nsrc.org/workshops/2016/sanog27

- This workshop:
  - http://www.ws.nsrc.org/
  - Please keep this URL open, and download workshop materials as the workshop progresses

Housekeeping

- This is a 5 day workshop
  - Completion certificates will be given to those who attend all 5 days
  - Have fun!
- Please Ask Questions
- No Skype, IM, Facebook, Twitter, etc.
- Mobile phones OFF or on SILENT
  - If you must take calls, please do so OUTSIDE the room

Housekeeping

- Wireless
  - SSID: IPv6
  - Password: sanog2016

Agenda – Thursday

09:30 Introductions & Workshop Objectives

09:45 Presentation

    "Routing Basics"

10:30 Labs – Setup

12:00 Presentation

    "Introduction to IS-IS"

13:00 Break for Lunch

14:00 Presentation

    "Introduction to IPv6"

15:00 Labs – IS-IS

17:00 Presentation

    "IPv6 Standards and Protocol"

18:00 Close

(breaks for tea/coffee at 11:00 and 15:30)

Agenda – Friday

09:30 Labs – IPv6 Setup

11:30 Presentation
    "IPv6 Addressing"

12:30 Labs – IPv6 Addressing Exercise

13:00 Break for lunch

14:00 Presentation
    "IPv6 Routing Protocols"

15:00 Labs – IPv6 IS-IS

16:00 Presentation
    "Introduction to BGP"

17:00 Labs – iBGP

18:00 Close

(breaks for tea/coffee at 11:00 and 15:30)

Agenda – Saturday

09:30 Presentations
     "IS-IS for IPv6", "BGP for IPv6"

10:30 Labs – iBGP IPv6

11:30 Presentation
     "IPv6 Transition Planning"

13:00 Break for lunch

14:00 Presentation
     "Securing Transition Mechanisms"

16:00 Labs – iBGP & eBGP

18:00 Close

(breaks for tea/coffee at 11:00 and 15:30)

Agenda – Sunday

09:30 Presentations
   "IPv6 Deployment Planning"
11:30 Labs – iBGP & eBGP (cont)
13:00 Break for lunch
14:00 Labs – IPv6 iBGP & eBGP
16:00 Presentations
    "IPv6 Security", "Hardening IPv6 Devices"
18:00 Close

(breaks for tea/coffee at 11:00 and 15:30)

Agenda – Monday

09:30 Presentations

"BGP Attributes", "BGP Policy Control"

13:00 Break for lunch

14:00 Lab – IPv6 Route Filtering

16:00 Presentations

"ISIS vs OSPF", "OSPF to IS-IS migration"

17:00 Extra Topics:

Configuring Dynamips, Q&A,…

17:30 End of Workshop

(breaks for tea/coffee at 11:00 and 15:30)