

IPv6 Workshop



Philip Smith, Tashi Phuntsho, Phurpa
Rinchen

SANOG 33

Thimphu, Bhutan

12th – 16th January 2019

Workshop Materials

- Master materials archive:
 - <http://bgp4all.com/dokuwiki/workshops>
 - This archive is kept up to date

- This workshop archive:
 - <http://bgp4all.com/dokuwiki/training/sanog33/>

- This workshop:
 - <http://www.ws.sanog/>
 - 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
- Please no Skype, Facebook, Twitter, WhatsApp, WeChat, LINE, SnapChat, etc.
- Mobile phones OFF or on SILENT
 - If you must take calls, please do so OUTSIDE the room

Housekeeping

- Wireless

- SSID: SANOG33-IPv6
- Password: 6666666666 (ten 6s)

Agenda – Saturday

- 09:00 Introductions & Workshop Objectives
- 09:30 Presentation
 - “Internet Fundamentals”, “IPv6 Deployment Update”, “Introduction to IPv6”
- 12:30 Lunch
- 14:00 Presentation
 - “IPv6 Protocol & Standards”
- 16:00 Labs – IPv6 Setup
- 18:00 Close

(breaks for tea/coffee at 10:30 and 15:30)

Agenda – Sunday

- 09:00 Presentation
“IPv6 Addressing”
- 11:00 Labs – IPv6 Addressing Exercise
- 12:30 Lunch
- 14:00 Presentation
“IPv6 Routing Protocols”
- 16:00 Labs – Setting up IPv4 & IPv6 Routing – IS-IS
- 18:00 Close

(breaks for tea/coffee at 10:30 and 15:30)

Agenda – Monday

- 09:00 Presentations
"Internet Security Introduction", "IPv6 Security Introduction"
- 12:30 Lunch
- 14:00 Labs – Setting up IPv4 & IPv6 Routing – BGP
- 18:00 Close

(breaks for tea/coffee at 10:30 and 15:30)

Agenda – Tuesday

- 09:00 Presentations
"IPv6 Transition Technologies", "IPv6 Deployment Planning"
- 12:30 Lunch
- 14:00 Labs – IPv6 End-user Deployment: Static
- 15:00 Labs – IPv6 End-user Deployment: DHCPv6-PD
- 16:00 Labs – IPv6 End-user Deployment: 6rd
- 17:00 Presentation
"IPv6 on Mobile Networks: Telstra Experience"
- 18:00 Close

(breaks for tea/coffee at 10:30 and 15:30)

Agenda – Wednesday

- 09:00 Presentations
"Securing the Transition Mechanisms", "Hardening Network Devices"
- 11:00 Labs – Securing the Router
- 11:30 Presentation
"IPv6 Routing Security Theory"
- 12:30 Lunch
- 14:00 Labs – Securing IS-IS
- 14:30 Labs – Securing BGP
- 15:00 Presentations
"IPv6 Security Monitoring"
- 16:00 Labs – Netflow
- 17:30 Extra Topics:
Configuring Dynamips, Q&A,...
- 18:00 Close

(breaks for tea/coffee at 10:30 and 15:30)