

IPv4/v6 Routing Workshop



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Workshop Materials

- Master presentation archive:
 - <http://bgp4all.com/dokuwiki/workshops>

- Archive of this workshop:
 - <https://nsrc.org/workshops/2018/apricot/routing>

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

v4v6 Workshop: Housekeeping

□ Wireless

- (to access workshop lab)
- SSID: v4v6
- Password: ten 8s (888888888888)

□ Conference Wireless

- SSID: apricot
- Password: wireless

Housekeeping

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

Housekeeping

- Breaks:

- In the Atrium downstairs

- Lunch:

- On hotel lawn outside
- You will need to wear your badge to get lunch
- No badge = No lunch

Labs

- We are running two separate labs.

- Group 1



- Group 2



Agenda – Monday

09:30 Introductions, Objectives

09:45 Presentation

“Routing Basics”

11:30 Lab Module 1 – Setup

12:30 Presentation

“Introduction to IPv6”

13:00 Break for Lunch

14:30 Presentation

“IPv6 Protocol & Standards”

16:30 IPv6 Lab Module 1 – Setup

18:00 Close

(breaks for tea/coffee at 11:00 and 16:00)

Agenda – Tuesday

09:30 Presentation

“IPv6 Addressing”

10:30 IPv6 Addressing Lab

11:30 Presentation

“Introduction to IS-IS”

12:30 Lab Module 1 – IS-IS

13:00 Break for Lunch

14:30 Presentations

“IPv6 Routing Protocols”, “IS-IS for IPv6”

15:30 IPv6 Lab Module 1 – IS-IS

16:30 Presentation

“Introduction to BGP”

17:30 Lab Module 1 – Basic BGP

18:00 Close

(breaks for tea/coffee at 11:00 and 16:00)

Agenda – Wednesday

09:30 Presentation

“BGP for IPv6”

10:00 IPv6 Lab Module 1 – Basic BGP

11:30 Presentation

“BGP Scaling Techniques”

12:30 Lab Module 3 – BGP Route Reflector (IPv4 & IPv6)

13:00 Break for lunch

14:30 Presentation

“IPv6 Transition Technologies”

16:30 Presentation

“IPv6 Deployment Planning”

18:00 Close

(breaks for tea/coffee at 11:00 and 16:00)

Agenda – Thursday

09:30 Presentation

“BGP Attributes”

11:30 Lab Module 6 – iBGP & eBGP Lab

13:00 Break for lunch

14:30 IPv6 Lab Module 6 – iBGP & eBGP Lab

16:30 Presentation

“BGP Policy Control”

18:00 Close

(breaks for tea/coffee at 11:00 and 16:00)

Agenda – Friday

09:30 Presentation

“IPv6 Security”

11:30 IPv6 Lab Module 7 – Route Filtering Lab

13:00 Break for lunch

14:30 IPv6 Lab Module 8 – BGP Policy Lab

16:30 Presentations

“Comparing IS-IS and OSPF”, “Migrating from OSPF to IS-IS”

17:30 Extra Topics:

Configuring Dynamips,...

17:45 Certificate Presentations

18:00 End of Workshop

(breaks for tea/coffee at 11:00 and 16:00)