

BGP Workshop



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APRICOT 2016

Auckland

15th – 19th February 2016

Workshop Materials

- ❑ Master presentation archive:
 - <http://bgp4all.com/ftp/isp-workshops>
- ❑ Archive of this workshop:
 - <https://nsrc.org/workshops/2016/apricot2016>
- ❑ This workshop:
 - <http://www.ws.nsrc.org/>
 - Please keep this URL open, and download workshop materials as the workshop progresses



Housekeeping

- Wireless

- SSID: APRICOT-BGP
- Password: ten 8s (888888888888)

Housekeeping

- ❑ This is a 5 day workshop
 - Completion certificates will be given to those who attend all five days
 - Small exam at the end
 - 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

Agenda – Monday

09:00 Introductions, Objectives

09:15 Presentation

“Routing Basics”

11:00 Lab Module 1 – Setup

12:00 Presentation

“Introduction to IS-IS”

13:00 Break for Lunch

14:00 Lab Module 1 – IS-IS

14:30 Presentations

“IS-IS for ISPs”, “Introduction to BGP”

17:00 Lab Module 1 – Basic BGP

18:00 Close

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

Agenda – Tuesday

09:00 Presentation

“IPv6 Protocol & Standards”

10:00 IPv6 Lab Module 1 – Setup

11:00 Presentations

“IPv6 Addressing”, “IPv6 Routing Protocols”

13:00 Break for Lunch

14:00 IPv6 Lab Module 1 – IS-IS

14:30 Presentations

“IS-IS for IPv6”, “BGP for IPv6”

16:00 IPv6 Lab Module 1 – BGP

16:30 Presentation

“BGP Scaling Techniques”

18:00 Close

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

Agenda – Wednesday

09:00 Presentation

“BGP Attributes”

11:00 Lab Module 3 – BGP Route Reflector (IPv4 & IPv6)

12:00 Presentation

“BGP Policy Control”

13:00 Break for lunch

14:00 Lab Module 6 – iBGP & eBGP

16:00 Presentation

“BGP Best Practices”

18:00 Close

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

Agenda – Thursday

09:00 Presentation

“BGP Multihoming (Part 1)”

11:00 Lab Module 7 – Route Filtering

13:00 Break for lunch

14:00 Presentation

“BGP Multihoming (Part 2)”

16:00 Lab Module 7 (cont)

17:00 Lab Module 8 – BGP Policy Lab

18:00 Close

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

Agenda – Friday

09:00 Presentations

“OSPF vs IS-IS”, “Migrating from OSPF to IS-IS”

11:00 Lab Module 8 (cont)

13:00 Break for lunch

14:00 Presentations

“BGP Communities”, “The Value of Peering”

17:15 Extra Topics:

Configuring Dynamips,...

17:30 End of Workshop

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