ASREN NREN BGP Workshop

Philip Smith & Anton Berezin

Amman

5th – 8th September 2016

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Workshop Materials

- Master presentation archive:
  - http://www.bgp4all.com.au/dokuwiki/workshops/start

- Archive of this workshop:
  - https://nsrc.org/workshops/2016/nsrc-geant-asren-bgp/

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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Logistics

- Wireless Network
    - SSID for this workshop is NSRC-PFS
    - Network operates at both 2.4GHz and 5GHz
    - The key is "8888888888" – ten times the number 8

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Housekeeping

- This is a 4 day workshop
  - Completion certificates will be given to those who attend all 4 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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Agenda – Monday

09:00   Introductions & Workshop Objectives

09:30   Presentation
       "Routing Basics"

11:30   Labs – Setup

13:30   Break for Lunch

14:30   Presentation
       "Introduction to IS-IS"

15:00   Labs – IS-IS

16:30   Presentation
       "IS-IS for Network Operators"

18:00   Close

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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Agenda – Tuesday

09:00   Presentations
>   "Introduction to BGP", "BGP Attributes"

13:30   Break for lunch

14:30   Labs – Internal BGP

15:00   Presentation
>   "BGP Policy Control"

16:30   Labs – External BGP

18:00   Close

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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Agenda – Wednesday

09:00   Presentations

       "BGP Best Practices", "BGP Multihoming (part 1)"

13:30   Break for lunch

14:30   Labs – BGP Peering

15:30   Labs – Local Preference

16:30   Presentation

       "BGP Multihoming (part 2)"

18:00   Close

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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Agenda – Thursday

09:00   Presentation

           "BGP Communities", "BGP Scaling Techniques"

12:30   Labs – AS Path Prepend

13:30   Break for lunch

14:30   Labs – BGP Communities

15:30   Labs – Partial Routes

16:30   Presentations

           "OSPF vs IS-IS", "OSPF to IS-IS Migration"

17:30   Extra Topics:

     Configuring Dynamips,…

18:00   End of Workshop

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

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center

Questions?

UNIVERSITY OF OREGON

NSRC
Network Startup Resource Center