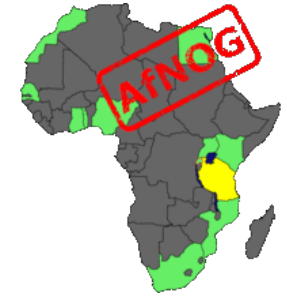


Advanced Routing Workshop (IPv4 & IPv6)

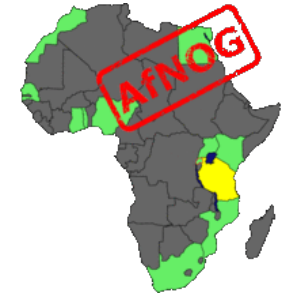
AfNOG 2011, Dar es Salaam
30th May to 3rd June 2011



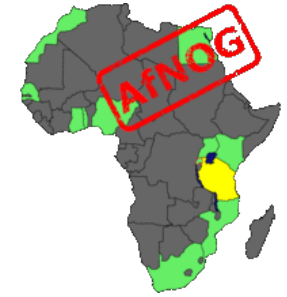
House Rules

- Have fun!
- Ask questions
- No Skype, IM, Facebook, Twitter or other social media
- Mobile phones OFF or on SILENT
 - And if you must take calls, please do so OUTSIDE the room
- Please be back on time after breaks

AR-E



- Meeting your Instructors:
 - Philip Smith - Track Leader
 - Mark Tinka
 - Randy Bush
 - Kaveer Harie
 - Richard Mikisa



Agenda – Monday

09:00 Introductions, Objectives

09:30 Presentations

“Internet Introduction”, “Routing Basics”,
“Introduction to ISIS”, “ISIS for ISPs”

13:00 Break for Lunch

14:00 Lab Module 1 – Basic ISIS & iBGP

16:30 Presentation

“Introduction to BGP”

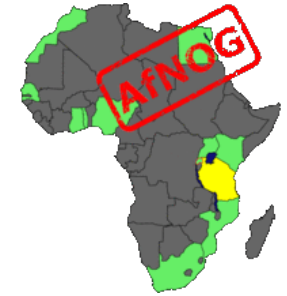
17:30 Lab Module 1 (continued)

18:30 Dinner

20:00 Evening Session

“ISIS vs OSPF”

(breaks for tea/coffee at 10:30 and 16:00)



Agenda – Tuesday

09:00 Presentations

“Introduction to IPv6”, “IPv6 Standards and Protocols”

“IPv6 Addressing & Routing Protocols”, “ISIS & BGP for IPv6”

13:00 Break for lunch

14:00 IPv6 Lab Module 1 – ISIS and iBGP

16:30 Presentation

“BGP Scaling Techniques”

17:30 Lab Module 3 – Route Reflector

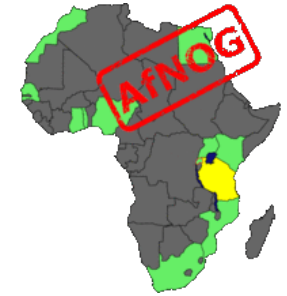
IPv4 and IPv6 labs

18:30 Dinner

20:00 Evening Session

“Introduction to MPLS”

(breaks for tea/coffee at 10:30 and 16:00)



Agenda – Wednesday

09:00 Presentation

“BGP Attributes and Policy Control”

11:00 Lab Module 6 – iBGP and eBGP (IPv4)

13:00 Break for lunch

14:00 Lab Module 6 – iBGP and eBGP (IPv6)

16:30 Presentation

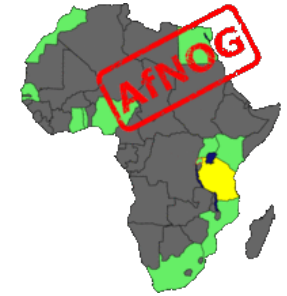
“4-byte ASNs”, “BGP Best Practices”

18:30 Dinner

20:00 Evening Session:

“Out of Band Management”, “TACACS+”

(breaks for tea/coffee at 10:30 and 16:00)



Agenda – Thursday

09:00 Presentation

“BGP Multihoming – Part 1 ”

11:00 IPv6 Lab Module 7 – Route Filtering

13:00 Break for lunch

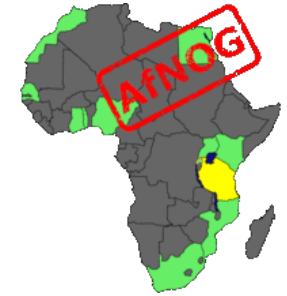
14:00 Lab Module 7 (cont)

16:00 Presentations

“OSPF to ISIS Migration”, “BGP Multihoming – Part 2”

18:30 Dinner

(breaks for tea/coffee at 10:30 and 16:00)



Agenda – Friday

09:00 Presentation and Lab

“X.509 RPKI & Origin Validation”

Hands-On Lab: “GUI and Routers”

“Status of Implementations”, “BGPSEC: AS-Path Validation”

13:00 Break for lunch

14:00 IPv6 Lab Module 8 – Multihoming Strategies

16:30 Presentation

“IPv6 Deployment Case Study”, “The Value of Peering”

18:00 Extra Topics:

Configuring Dynamips, RPF, Traffic Policing,...

18:30 End of Workshop

18:45 Workshop Dinner & Certificate Ceremony

(breaks for tea/coffee at 10:30 and 16:00)