

Campus Network Design

Introduction and Logistics

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- UbuntuNet Alliance
- Uganda Christian University (UCU)

Instructor Team

Name	Organization (country)
Brian Candler	NSRC (UK)
Joe Kimaili	RENU/Ubuntunet (Uganda)
Andy Linton	NSRC (New Zealand)
Damas Makweba	TERNET (Tanzania)
Maureen Wanja Njue	KENET (Kenya)
Patrick Okui	NSRC (Uganda)
Matsiko Perez	UCU (Uganda)
Dale Smith	NSRC (USA)
Philip Smith	NSRC (Australia)

Videography

- Andy Kirkpatrick (NSRC)

Logistics

- Wireless Network
 - SSID for this workshop is **NSRC5** (5GHz) and **NSRC24** (2.4GHz), and the key is “8888888888” – ten times the number 8
- Local Workshop Server
 - <http://www.ws.nsrc.org>
 - or: <http://10.10.0.241/>
- Final workshop documentation
 - <http://nsrc.org/workshops/2014/nsrc-ucu-nkumba-dea>

Week Schedule

Day	Topic
Monday	Layer 1-2-3 refresher, Campus Network Design Principles, Fiber planning, Network Diagrams
Tuesday	Spanning tree and VLANs
Wednesday	IP addressing and routing, Campus network restructuring
Thursday	Restructuring (cont), Security, Monitoring



Day Schedule

Time	Activity
0830-1030	Morning Session 1
1030-1100	Break
1100-1300	Morning Session 2
1300-1400	Lunch
1400-1530	Afternoon Session 1
1530-1600	Break
1600-1800	Afternoon Session 2



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Bus Schedule

- For the remaining days, the bus will depart the hotel at 07:45 and 08:00
 - 15 minutes later than the first day

Switching & Routing Practice

- There are two exercise environments
 - Virtual routers/switches (dynamips)
 - Real switches
- You will use both ssh and telnet to access these devices.
- You will work in groups

Key for Success

Remember, this workshop is for you!

- If you do not understand or have questions, ask for clarification
- Please share your thoughts and experiences. They are valuable
- Take advantage of the event to meet your colleagues and build the “human network”



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Questions

Do you have any questions?

Introductions

- Find a partner - someone you do not know
- Spend about five minutes talking to them with a view to giving a thumbnail sketch of him/her to the group. You might want to find out about interests, hobbies, personality, or anything else that interests you (and they are willing to tell!)
- Make notes and use them as a basis for introducing your partner to the group
- After 5 minutes, repeat with the roles reversed