Campus Network Design Workshop

Introduction & Logistics

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Sponsors

- Network Startup Resource Center (NSRC)
- USA National Science Foundation (NSF)
- Google
- University of Oregon
- European Union
- TEIN*CC
- Department of Information Technology & Telecom, Ministry of Information & Communication, Royal Government of Bhutan

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Instructor Team

Name	Organization (Country)
Andy Linton	NSRC (New Zealand)
Sonam Penjor	Royal University of Bhutan
Dale Smith	NSRC (US)
Philip Smith	NSRC (Australia)

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://web.nsrc.org/workshops/2015/drukren-nsrc

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Week Schedule

Day	Topic
Monday	Campus Network Design Principles, Fiber planning, Linux refresher, Layer 1-2-3 refresher, TCP/IP
Tuesday	Cisco Essentials, L2, Spanning Tree & vLANs
Wednesday	L3, IP addressing and routing, Campus network restructuring
Thursday	Campus Security, Monitoring & Measuring
Friday	Firewalls, Netflow, Campus Presentations

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Day Schedule

Time	Activity
09:00-10:30	Morning Session 1
10:30-11:00	Break
11:00-13:00	Morning Session 2
13:00-14:00	Lunch (outside)
14:00-16:00	Afternoon Session 1
16:00-16:30	Break
16:30-18:00	Afternoon Session 2

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Switch & Routing Practice

- There are two exercise environments
  - Virtual routers/switches (dynamips)
  - Real switches & routers
- As much as possible we will use the routers and switches on the tables in front of you
- You will use both ssh and telnet to access these devices from your laptop
- You will be working in groups

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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?

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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

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