

Workshop on Campus Network Design and Setup for Direct Engineering Assistant (DEA) University of Iringa Introduction & Logistics

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Instructor Team

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Logistics

Wireless Network

SSID for this workshop is hpc

Network operates at both 2.4GHz and 5GHz

The key is “8888888888” – ten times the number 8

Final workshop documentation

<http://wiki.tnernet.or.tz>



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Week Schedule

Day	Topic
Monday	Welcome, Campus Network Design Principles, Cabling , DEA
Tuesday	Layer 1-2-3 refresher, TCP/IP, IP addressing, Cisco Essentials, DEA
Wednesday	L2 & vLANs, Core Design, L3 and routing
Thursday	OSPF intro,Campus Wireless, DNS refreshers, DEA
Friday	Monitoring, Security overview



Day Schedule

Time	Activity
09:00-10:30	Morning Session 1
10:30-11:00	Break
11:00-12:30	Morning Session 2
12:30-13:30	Lunch (outside)
13:30-15:30	Afternoon Session 1
15:30-16:00	Break
16:00-18:00	Afternoon Session 2



Switching & Routing Practice

We have two environments

1. Remove lab of switches and routers at the University of Iringa
 2. Local, virtual lab of Routers with Virtual PCs
- You will use both ssh and telnet to access these devices.
 - You will work in groups



Network Management Practice

You will work in groups of 4

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- Each group will
- be assigned one
- router
- 7 total routers
- and 28 total
- virtual machines
- Please select
- your group now

GROUP 1	GROUP 4	GROUP 7
rtr1 ==> 10.10.1.254	rtr4 ==> 10.10.4.254	rtr7 ==> 10.10.7.254
pc1 ==> 10.10.1.1	pc13 ==> 10.10.4.13	pc25 ==> 10.10.7.25
pc2 ==> 10.10.1.2	pc14 ==> 10.10.4.14	pc26 ==> 10.10.7.26
pc3 ==> 10.10.1.3	pc15 ==> 10.10.4.15	pc27 ==> 10.10.7.27
pc4 ==> 10.10.1.4	pc16 ==> 10.10.4.16	pc28 ==> 10.10.7.28
GROUP 2	GROUP 5	
rtr2 ==> 10.10.2.254	rtr5 ==> 10.10.5.254	
pc5 ==> 10.10.2.5	pc17 ==> 10.10.5.17	
pc6 ==> 10.10.2.6	pc18 ==> 10.10.5.18	
pc7 ==> 10.10.2.7	pc19 ==> 10.10.5.19	
pc8 ==> 10.10.2.8	pc20 ==> 10.10.5.20	
GROUP 3	GROUP 6	
rtr3 ==> 10.10.3.254	rtr6 ==> 10.10.6.254	
pc9 ==> 10.10.3.9	pc21 ==> 10.10.6.21	
pc10 ==> 10.10.3.10	pc22 ==> 10.10.6.22	
pc11 ==> 10.10.3.11	pc23 ==> 10.10.6.23	
pc12 ==> 10.10.3.12	pc24 ==> 10.10.6.24	





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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”



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



Questions?

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